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Accent on Learning, 1982

University of South Florida

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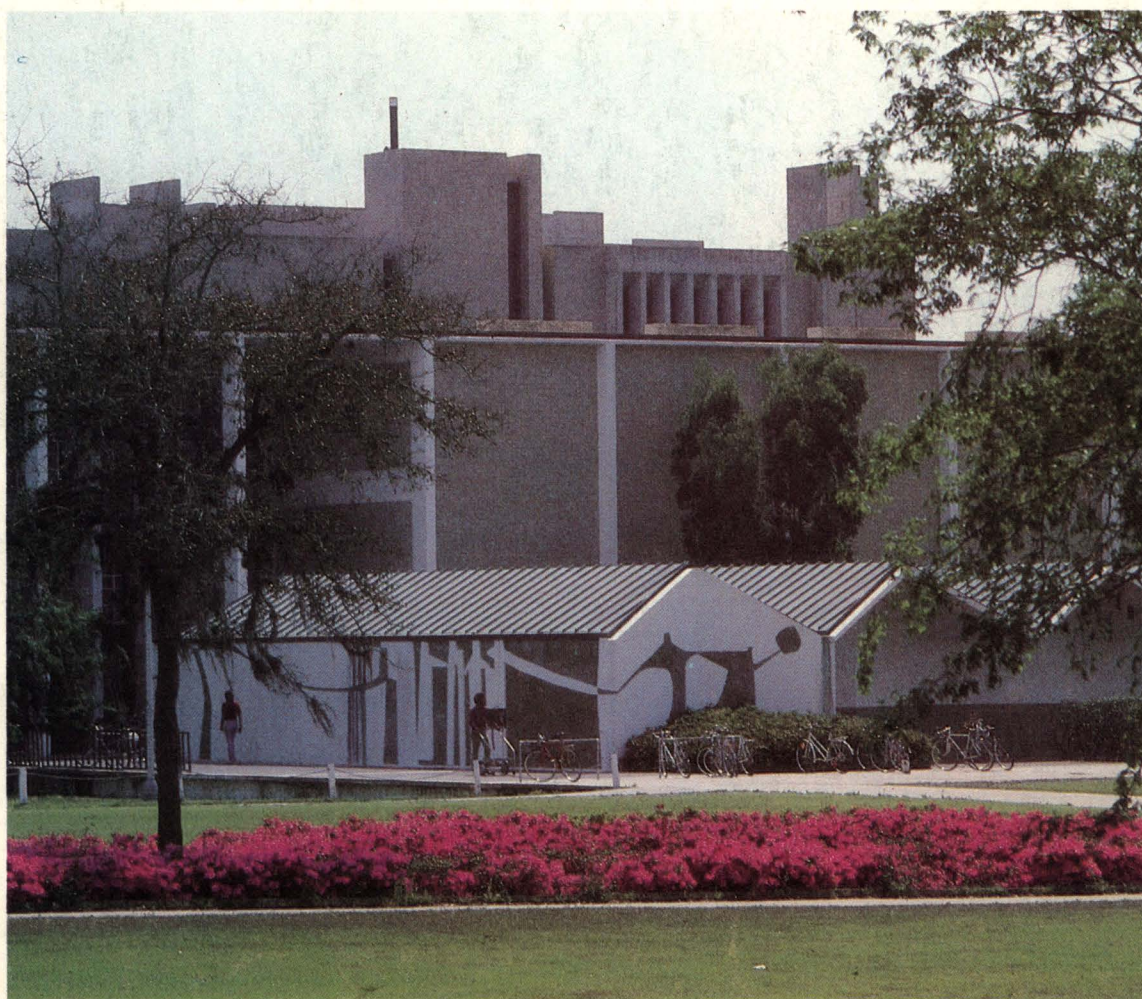
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June, 1982

University of South Florida



USF at Tampa

Accent on Learning GENERAL CATALOG 1982-83

Catalog

Students enrolled in the University are entitled to one copy of each issue of the USF General 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 or Graduate brochure from the Admissions Office.

Cover Photo Credits:

Tampa and Sarasota Campuses: USF Photography Department

St. Petersburg Campus: Jose Font, St. Petersburg Times and Evening Independent

Fort Myers Campus: Roy I. Mumme

DEGREES OFFERED AT THE UNIVERSITY OF SOUTH FLORIDA*

Undergraduate Degrees

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

B.A.
B.E.T.
B.F.A.
B.I.S.
B.S.
B.S.Ch.E.
B.S.C.E.
B.S.Cp.E.
B.S.E.E.
B.S.E.
B.S.E.S.
B.S.I.E.
B.S.M.E.
B.S.W.

Graduate Degrees

Master of Accountancy
Master of Arts
Master of Business Administration
Master of Education
Master of Engineering
Master of Fine Arts
Master of Music
Master of Public Administration
Master of Science
Master of Science in Chemical Engineering
Master of Science in Civil Engineering
Master of Science in Computer Engineering
Master of Science in Electrical Engineering
Master of Science in Engineering
Master of Science in Engineering Management
Master of Science in Engineering Science
Master of Science in Industrial Engineering
Master of Science in Mechanical Engineering

M.Acc.
M.A.
M.B.A.
M.Ed.
M.E.
M.F.A.
M.M.
M.P.A.
M.S.
M.S.Ch.E.
M.S.C.E.
M.S.Cp.E.
M.S.E.E.
M.S.E.
M.S.E.M.
M.S.E.S.
M.S.I.E.
M.S.M.E.

Advanced Graduate Degrees

Education Specialist
Doctor of Education
Doctor of Philosophy

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

Professional Degree

Doctor of Medicine

M.D.

* See index for individual degree programs

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.

Equal Opportunity Complaint Procedure

A student or employee who thinks or feels that a condition, University policy or procedure, or act by someone connected with the University is unfair, unjust or a hindrance to his/her participation in University activities and programs primarily because of his/her race, color, creed, sex, age, national origin, handicap or Vietnam veteran status, may file an Equal Opportunity Complaint. This includes sexual harassment. The complaint may be filed with the Minority Student Advocate, the College Equal Opportunity Coordinator, or the Director of Equal Opportunity Affairs. Additional information about this procedure may be obtained from the Office of Equal Opportunity Affairs, ADM 229, or by calling 974-4373.

It shall be prohibited for any University employee to discriminate or to take any other retaliatory action against an individual who, in good faith, has opposed an alleged unlawful practice or has made a charge, testified, assisted, or participated in any manner in an investigation, proceeding or hearing.



ACCENT ON LEARNING

GENERAL CATALOG OF THE UNIVERSITY OF SOUTH FLORIDA 1982—83

Vol.24, No.5

USF

June, 1982

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The University of South Florida is committed to the principles of equal education and employment opportunities without regard to race, color, sex, religion, creed, national origin, political opinions or affiliations, 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.

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.

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 Tamps 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.

The other campuses of the University are located in the places noted below.

Communicating With The University

Communications regarding the services and programs listed below should be directed by letter or by phone to the appropriate office on the Tampa, St. Petersburg, Fort Myers, 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 freshmen)		Housing: Campus Residence Halls	
Academic Services, SVC 255	974-2645	Office of Housing and Food Service, RAR 229	974-2761
Academic Advising (for upperclassmen and graduate students)		Housing: Off-Campus	
Office of the Dean of the appropriate college		Student Government Office, CTR 156A	974-2401
Applications and Admissions		International Students	
Office of Admissions, SVC 126	974-3350	Office of Student Organizations, CTR 217	974-2615
College of Medicine:		Library Resources	
Associate Dean for Admissions, MDC 1415	974-2229	Office of the Director of Libraries, LIB 207	974-2721
New College		Mature Student Advising	
Office of Admissions (Sarasota)	355-7671	School of Continuing Education, AOC 204	974-2403
Athletics (Intercollegiate)		Minority Student Advising	
Director of Athletics, PED 214	974-2125	Academic Services, SVC 255	974-2645
Bachelor of Independent Studies Program		Orientation ("FOCUS")	
External Degree Program, FAO 149	974-4058	Office of Admissions, SVC 126	974-3350
Career Planning and Placement		Parking and Traffic Services	
Division of Cooperative Education and Placement, SVC 243	974-2171	University Police Department, UPB	974-2628
College Level Examination Program (CLEP tests)		Pre-Admission Advising for Prospective Freshman, International, Mature and Minority Students	
Office of Evaluation and Testing Services, FAO 201	974-2741	Office of Admissions, SVC 126	974-3350
Community College Relations (transfer students)		Pre-Admission Advising for Prospective Undergraduate Transfer Students	
Office of Community College Relations, SVC 123	974-2506	Office of Community College Relations, SVC 123	974-2506
Continuing Education Courses and Conferences		Records, Registration	
School of Continuing Educations, AOC 204	974-2403	Office of Records & Registration, SVC 136	974-4029
Cooperative Education Program		Speakers Service	
Division of Cooperative Education and Placement, SVC 243	974-2171	Office of Information Services, ADM 264	974-2181
Financial Assistance (scholarships, loans, employment)		Student Affairs	
Office of Financial Aids, SVC 262	974-2621	Office of Student Affairs, ADM 151	974-2151
Office of Student Employment, SVC 262	974-2297	Transcripts (USF)	
Graduate Studies		Office of Records & Registration, SVC 136	974-4080
Graduate School, FAO 126	974-2846	Undergraduate Studies	
Handicapped Student Program and Facilities		Dean of Undergraduate Studies, SVC 252	974-4051
Office of Student Organizations, CTR 217	974-2615	Veterans Affairs	
Handicapped Student Services		Office of Veterans Affairs, SVC 209	974-2291
Coordinator of Handicapped Services, LIB 620	974-4301		
Health Services (Student)			
Health Center, CTR 411	974-2331		

UNIVERSITY OF SOUTH FLORIDA

Tampa Campus

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

St. Petersburg Campus

140 Seventh Avenue South
St. Petersburg, Florida 33701
Telephone: (813) 898-7411

Fort Myers Campus

College Parkway
Fort Myers, Florida 33907
Telephone: (813) 334-3780

Sarasota Campus

5700 N. Tamiami Trail
Sarasota, Florida 33580
Telephone: (813) 355-7671



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ACADEMIC CALENDAR

The Academic Calendar for New College of USF appears on page 134.
The Academic Calendar for the College of Medicine appears on page 119.
See separate calendar for Regional Campuses' registration dates, page 6.

- ☐ Dates of beginning and ending of terms
☐ Student holidays

1982

S M T W T F S

MAY						
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					
JUNE						
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			
JULY						
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4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
AUGUST						
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				
SEPTEMBER						
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5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		
OCTOBER						
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3	4	5	6	7	8	9
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17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						
NOVEMBER						
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14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				
DECEMBER						
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5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

*July 2, Friday
August 9, Monday

August 24, Tuesday
August 25-26, Wednesday-Thursday
August 26, Thursday
August 30, Monday
September 3, Friday
September 3, Friday
September 3, Friday

September 6, Monday
September 10, Friday
September 10, Friday
September 24, Friday
October 29, Thursday
November 11, Thursday
November 25-26, Thursday, Friday
December 10, Friday
December 13-18, Monday-Saturday

*November 12, Friday
December 6, Monday

January 4-5, Tuesday-Wednesday
January 5, Wednesday
January 6, Thursday
January 11, Tuesday
January 11, Tuesday
January 11, Tuesday

January 18, Tuesday
January 18, Tuesday
February 4, Friday
March 4, Friday
March 4, Friday
March 7-11, Monday-Friday
April 20, Wednesday
April 22-23, Friday and Saturday and April 25-28, Monday-Thursday
May 1, Sunday

Fall Semester, 1982

Last day to apply for admission
Former Student Application Deadline—last date to make application for readmission to avoid delay at registration
Evening Courses Only Registration
Registration by appointment
Non-Degree Seeking (Special) Student/State Employee Registration
Classes begin
Last day to withdraw/drop and receive full refund of registration fees
Last day to add courses
Last day for late registration (see late registration fee); last day to register as a Non-Degree Seeking (Special) Student
Labor Day Holiday
Last day to register for Continuing Education courses
Last day for Continuing Education course refund
Last day to apply for degree to be earned at end of Fall Semester
Last day to drop or withdraw from courses without academic penalty
Veterans Day Holiday
Thanksgiving Holidays
Classes end
Final Examination Week

Spring Semester, 1983

Last day to apply for admission
Former Student Application Deadline—last date to make application for readmission to avoid extended delay at registration
Registration by appointment
Non-Degree Seeking (Special) Student/State Employee Registration
Classes begin
Last day to withdraw/drop and receive full refund of registration fees
Last day to add courses
Last day for late registration (see late registration fee); last day to register as a Non-Degree Seeking (Special) Student
Last day to register for Continuing Education courses
Last day for Continuing Education course refund
Last day to apply for degree to be earned at the end of Spring Semester
Last day to drop courses without academic penalty
Last day to withdraw without academic penalty
Spring Semester Break
Classes end
Final Examinations
Commencement Convocation

*Earlier deadlines may be required by some graduate programs and by some limited access undergraduate programs. See appropriate sections for further information.

SUMMER TERM, 1983

Session A

(First Seven Week Session)

*March 11, Friday
April 11, Monday

May 3, Tuesday
May 4-5, Wednesday-Thursday
May 5, Thursday
May 9, Monday
May 11, Wednesday
May 11, Wednesday
May 11, Wednesday

May 18, Wednesday
May 18, Wednesday
May 30, Monday
June 3, Friday
June 3, Friday
June 3, Friday
June 24, Friday

Last day to apply for admission
Former Student Application Deadline—last date to make application for readmission to avoid extended delay at registration
Evening Courses Only Registration
Registration by appointment

Non-Degree Seeking (Special) Student/State Employee Registration
Classes begin
Last day to withdraw/drop and receive full refund of registration fees
Last day to add courses
Last day for late registration (see late registration fee); last day to register as a Non-Degree Seeking (Special) Student
Last day to register for Continuing Education courses
Last day for Continuing Education course refund
Memorial Day Holiday
Last day to apply for degree to be earned at the end of Summer Term
Last day to drop courses without academic penalty
Last day to withdraw without academic penalty
Last day of classes

Session B

(Second Seven Week Session)

*March 11, Friday
April 11, Monday

May 3, Tuesday
May 4-5, Wednesday-Thursday and
June 22-23, Wednesday-Thursday

May 5, Thursday
June 27, Monday
June 29, Wednesday
June 29, Wednesday
June 29, Wednesday

July 4, Monday
July 22, Friday
August 12, Friday

Last day to apply for admission
Former Student Application Deadline—last date to make application for readmission to avoid extended delay at registration
Evening Courses Only Registration

Registration by appointment

Non-Degree Seeking (Special) Student/State Employee Registration
Classes begin
Last day to withdraw/drop and receive full refund of registration fees
Last day to add courses
Last day for late registration (see late registration fee); last day to register as a Non-Degree Seeking (Special) Student
Independence Day Holiday
Last day to drop courses without academic penalty
Classes end

Session C

(Fourteen Week Session)

*March 11, Friday
April 11, Monday

May 3, Tuesday
May 4-5, Wednesday-Thursday

May 5, Thursday
May 9, Monday
May 13, Friday
May 13, Friday
May 13, Friday

May 30, Monday
July 4, Monday
July 22, Friday
August 12, Friday

Last day to apply for admission
Former Student Application Deadline—last date to make application for readmission to avoid extended delay at registration
Evening Courses Only Registration

Registration by appointment

Non-Degree Seeking (Special) Student/State Employee Registration
Classes begin
Last day to withdraw/drop and receive full refund of registration fees
Last day to add courses
Last day for late registration (see late registration fee); last day to register as a Non-Degree Seeking (Special) Student
Memorial Day Holiday
Independence Day Holiday
Last day to drop courses without academic penalty
Classes end

1983

S M T W T F S

JANUARY

						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

FEBRUARY

6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28					

MARCH

6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

APRIL

3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

MAY

8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

JUNE

5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

JULY

3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

AUGUST

7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

REGIONAL CAMPUSES

Fort Myers

Fall Semester, 1982

August 25-26, *Wednesday-Thursday*
 August 26, *Thursday*
 August 30-September 3, *Monday-Friday*

Regular Registration
 Non-Degree Seeking Student Registration
 Late/State Employee/Non-Degree Seeking Student/Senior Citizens Registration

Spring Semester, 1983

January 3-4, *Monday-Tuesday*
 January 4, *Tuesday*
 January 5-7, *Wednesday-Friday and*
 January 10-11, *Monday-Tuesday*

Regular Registration
 Non-Degree Seeking Student Registration
 Late/State/Employee/Non-Degree Seeking Students/Senior Citizens Registration

Summer Term, 1983**Session A (1st seven-week session)**

May 4-5, *Wednesday-Thursday*
 May 5, *Thursday*
 May 9-11, *Monday-Wednesday*

Regular Registration
 Non-Degree Seeking Student Registration
 Late/State Employee/Non-Degree Seeking Students/Senior Citizens Registration

Session B (2nd seven-week session)

May 4-5, *Wednesday-Thursday*
 and June 22-23, *Wednesday-Thursday*
 June 23, *Thursday*
 June 27-30 *Monday-Thursday*

Regular Registration
 Non-Degree Seeking Student Registration
 Late/State Employee/Non-Degree Seeking Students/Senior Citizens Registration

Session C (fourteen-week session)

May 4-5, *Wednesday-Thursday*
 May 5, *Thursday*
 May 9-11, *Monday-Wednesday*

Regular Registration
 Non-Degree Seeking Student Registration
 Late/State Employee/Non-Degree Seeking Students/Senior Citizens Registration

St. Petersburg

Fall Semester, 1982

August 24, *Tuesday*
 August 25, *Wednesday*
 August 26, *Thursday*
 August 30, *Monday*
 December 10, *Friday*
 December 13-18

New Transfer Student Registration
 Regular Registration
 Late/State Employee/Non-Degree Seeking Student Registration
 Classes begin
 Classes end
 Final Examinations

Spring Semester, 1983

January 3, *Monday*
 January 3, *Monday*
 January 4, *Tuesday*
 January 5, *Wednesday*
 April 20, *Wednesday*
 April 22-23, *Friday and Saturday* and April 25-28,
Monday-Thursday

New Transfer Student Registration
 Regular Registration
 Late/State Employee/Non-Degree Seeking Student Registration
 Classes begin
 Classes end
 Final Examinations

Summer Term, 1983**Session A (1st seven-week session)**

May 3, *Tuesday*
 May 4, *Wednesday*
 May 5, *Thursday*
 May 9, *Monday*
 June 24, *Friday*

New Transfer Student Registration
 Regular Registration
 Late/State Employee/Non-Degree Seeking Student Registration
 Classes begin
 Classes end

Session B (2nd seven-week session)

May 3, *Tuesday*
 May 4, *Wednesday and June 22, Wednesday*
 May 5, *Thursday*
 June 27, *Monday*
 August 12, *Friday*

New Transfer Student Registration
 Regular Registration
 Late/State Employee/Non-Degree Seeking Student Registration
 Classes begin
 Classes end

Session C (Fourteen-week session)

May 3, *Tuesday*
 May 4, *Wednesday*
 May 5, *Thursday*
 May 9, *Monday*
 August 12, *Friday*

New Transfer Student Registration
 Regular Registration
 Late/State Employee/Non-Degree Seeking Student Registration
 Classes begin
 Classes end

Sarasota

Fall Semester, 1982

Aug. 23, *Monday*
 Aug. 24, *Tuesday*
 Aug. 25, *Wednesday*
 Aug. 30-Sept. 2 *Monday-Thursday*

Spring Semester, 1983

Dec. 13, *Monday*
 Jan. 4, *Tuesday*
 Jan. 5, *Wednesday*
 Jan. 5-Jan. 11 *Wednesday-Tuesday*

Summer Semester, 1983

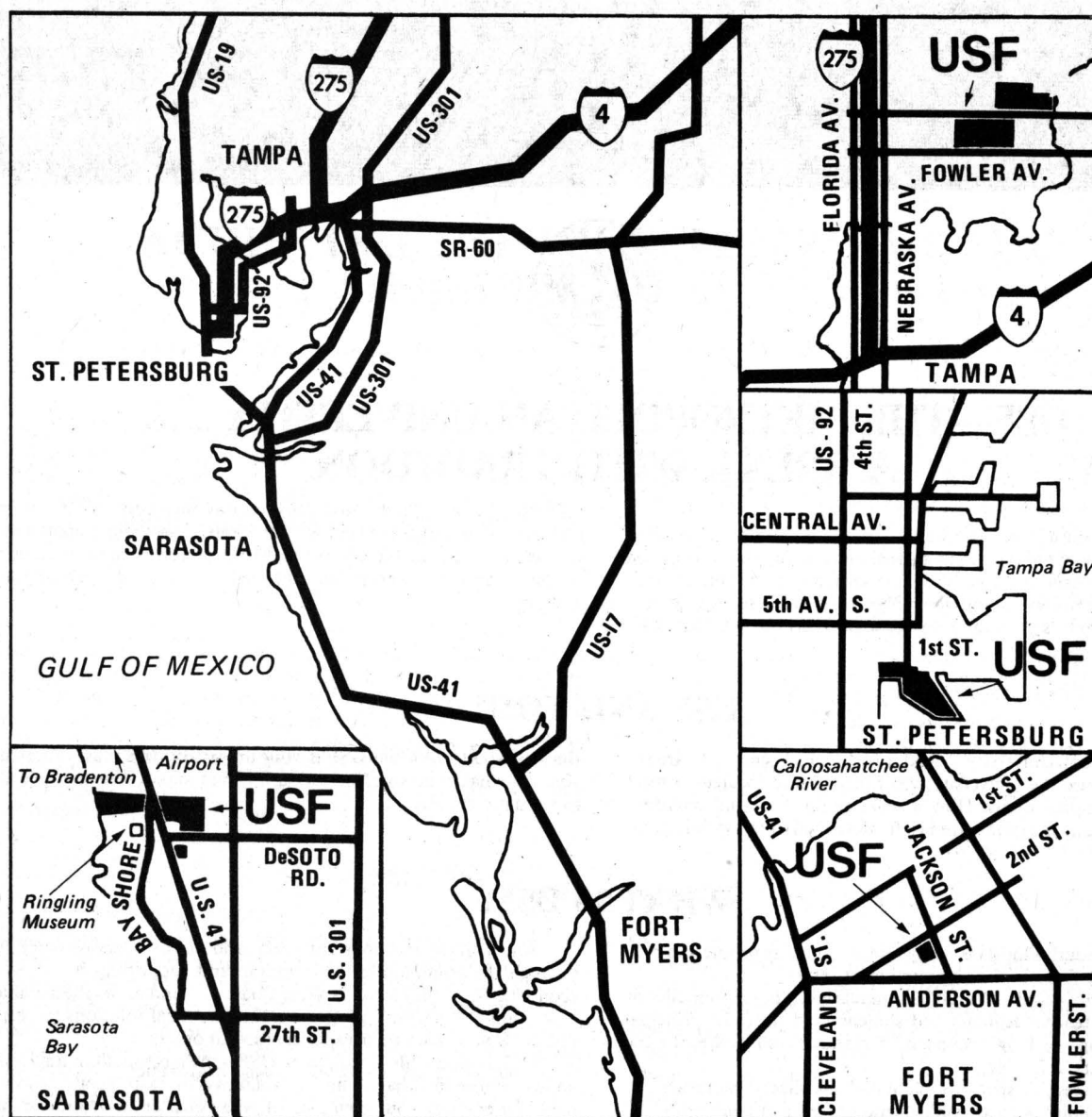
May 2, *Monday*
 May 3, *Tuesday*
 May 4, *Wednesday*
 May 9-May 12 *Monday-Thursday*

Orientation-Newly Admitted Students (only)
 Regular Registration, Degree-Seeking Students
 Regular Registration, Non-Degree Seeking (Special) Students
 Late Registration and Non-Degree Seeking (Special) Students Registration

Orientation-Newly Admitted Students (only)
 Regular Registration, Degree-Seeking Students
 Regular Registration, Non-Degree Seeking (Special) Students
 Late Registration and Non-Degree Seeking (Special) Students Registration

Orientation-Newly Admitted Students (only)
 Regular Registration, Degree-Seeking Students
 Regular Registration, Non-Degree Seeking (Special) Students
 Late Registration and Non-Degree Seeking (Special) Students Registration

NOTE: Registration dates for the Sarasota Campus are tentative. See the Sarasota Campus Class Schedule for final registration information, including times and locations.



NOTE: See page 304 and inside back cover for maps of Tampa, St. Petersburg, and Sarasota campuses.



USF—THE METROPOLITAN UNIVERSITY . . . A BREAK WITH TRADITION

The University of South Florida broke with tradition when it was founded 26 years ago. USF was not located in a small quiet town; USF was placed in one of Florida's—and the nation's—most dynamic metropolitan areas and assigned responsibility for providing higher education services to people of all ages within its 15-county service area. USF was the first State

university in Florida located *purposely* within convenient commuting distance of a large segment of the State's growing population. The University of South Florida broke with tradition because it came to the people. USF—the metropolitan university . . . an idea whose time had come.

USF AND YOU?

USF calls itself "Your University." And it is. In a real sense, you are the "U" in USF because the University was founded and located to meet *your* higher educational needs. How it seeks to do that—the activities, services and programs it offers—are briefly described in this publication.

But, for you to *feel* that USF is *your* university, you must experience for yourself what it has to offer—what it is that makes it such a special place to so many people.

WHAT IS USF?

The University of South Florida is many things . . . many people and programs . . . a major force in the communities it serves.

USF is primarily people. Within its boundaries, it is a community of more than 31,000 teacher-scholars and students and staff. Its principal purpose is teaching—teaching grounded in research and related to the needs of its students and society.

USF is also places . . . spacious, palm and oak shaded campuses . . . with libraries containing a measurable portion of human knowledge . . . with laboratories where scientists and students seek and test old and new knowledge . . . with theatres and recreational facilities and residence halls and other facilities that make USF more than just another state university.

And USF is an important social and cultural service force flowing through the communities surrounding and supporting it . . . a major economic force on Florida's West Coast . . . and an intellectual and information center where people can find practical solutions to perplexing problems and share their experiences with others.

USF is all of this—and more. USF—the metropolitan university . . . an idea whose time has come . . . is a university with people who want to help *you* embody your own idea of what such an institution should be. After all USF is what *you* make it and can be affected by you as much as you are affected by it. The faculty and staff are dedicated to ensuring that the University continues to be flexible enough to permit new ideas of itself to infuse new life into itself.

When Did It All Begin?

Speaking of new ideas and new life . . . If you have visited the Tampa Campus, you probably have noticed that all of its buildings appear to be modern and new. Well, they are. But then, so is USF.

The University of South Florida was founded on December 18, 1956, but the first students did not arrive until almost four years later. When USF was opened to a charter class of 1,997 freshmen on September 26, 1960, it became the *first major State university in America planned and built entirely in this century*. Moreover, as Florida's first State university located purposely in a major metropolitan center, USF repeated the first step in a broad and comprehensive expansion of the State University System.

The State University System, directed by the Florida Board of Regents, and administered by a Chancellor and staff in Tallahassee, today consists of nine public universities.

Together with 28 public junior and community colleges and a number of vocational-technical centers located throughout the State, these universities comprise public higher education in Florida.

Regional campuses of USF were opened in St. Petersburg in 1965, Fort Myers in 1976, and Sarasota in 1975.

Dr. John S. Allen, astronomer and educator, served as USF's first president from 1957 to 1970. Dr. Cecil Mackey, economist and lawyer, was president of the University from 1971 to 1976. Dr. John Lott Brown, psychologist and optical scientist, became our third president at the beginning of 1978. Continuity in administration has been provided by Dr. Harris W. Dean, acting president, 1970; Wm. Reece Smith, Jr., interim president, 1976-77; and Dr. Carl D. Riggs, acting president, 1977.

Now in its twenty-sixth year of existence, the University has

graduated more than 60,000 students—ninety percent of whom reside in Florida—and served over 16,000 persons in non-credit courses. Enrollment in the fall of 1981 totalled over 25,000. The University's economic impact on the area is equally significant: now exceeding \$137 million annually.

Because of its location and the composition of its student body, USF continues to be inextricably a part of and not apart from the modern metropolitan environment—and both affects and is affected by the communities surrounding and supporting it.

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, periodically required for continued accreditation, was recently completed and provides a firm foundation for the future growth of the University. Accreditation was reaffirmed in December, 1973. But the University Community continues to reexamine its mission and goals and to ensure that it never loses sight of its only reason for existence; serving you.

ACHIEVING THE UNIVERSITY'S MISSION: MEASURES OF SUCCESS

Mission

As the State's *first* metropolitan university, a prototype of the university of the future, the University of South Florida from its beginning has sought to apply the talents of its scholars and students to the peculiar ills besetting modern society. The University's stated mission is "to achieve preeminence as a general purpose university of academic excellence." Its

role as a comprehensive, multi-campus institution places particular emphasis upon the instructional, research, and service needs of its several metropolitan areas, with an orientation toward the solution of problems peculiar to the modern metropolitan environment.

Students Served

Since opening its doors in September of 1960, the University of South Florida has been dedicated to accomplishing this special mission in the modern metropolitan environment. One measure of our success is reflected in the composition of our student body:

- More than 85 percent of our students are Floridians and over 80 percent of our graduates reside in the State.
- More than two-thirds of our students commute to class from their homes throughout the Tampa Bay area.

- Over one-third of our student body are part-time students, and 40 percent are employed from one to 40 hours per week.
- More than two-thirds of all USF students are 21 or older and almost one-third of our students are married.
- Almost 60 percent of USF's 60,000 graduates reside in the Greater Tampa Bay Area.
- The majority of upper division students are transfers from other institutions.

Programs Offered

A measure of success in accomplishing the University's mission—and one more significant than mere statistics—is the nature of our academic programs. Through them we have sought to serve an increasingly urban State and nation. These programs are in the Academic Affairs division of the University and, for the most part, are administered in one of our 10 colleges: Arts & Letters, Business Administration, Education, Engineering, Fine Arts, Medicine, Natural Sciences, Nursing, Social & Behavioral Sciences, and an honors college, New College of USF on the Sarasota Campus.

In this publication are discussed the major academic programs in the University. Through them we serve the people of Florida through the instruction of students, the advancement of knowledge, and community

service.

Degrees are offered in over 100 academic areas by the University's colleges. Graduate degrees are offered in more than 80 of these areas.

The University's first Ph.D. program in Biology with emphasis on Marine Biology, was established in 1968. Since then Ph.D. programs have been established in Chemistry, Education, English, Engineering Science, Marine Science, Mathematics, Medical Sciences, and Psychology. USF also offers the Ed.D. in Education and the Ph.D. in Oceanography (in cooperation with Florida State University).

The University's teaching and research faculty, numbering more than 1,000, represents all major areas of higher learning, and nearly 60 percent hold doctoral degrees.

USF AT TAMPA, FORT MYERS, ST. PETERSBURG, SARASOTA: PART OF A MODERN METROPOLITAN ENVIRONMENT

University of South Florida campuses form a string of anchor points for the rapidly growing metropolitan area along the West Coast of Florida. These four campuses are within reach of more than two million people—roughly one quarter of the State's population—in the 15-county area they serve and University faculty members on all campuses from time to time teach on all of them.

The Tampa Campus of the University is located on a 1695-acre tract of land ten miles northeast of downtown Tampa, a city of over a quarter of a million people.

The St. Petersburg Campus, on a 24-acre site around the Bayboro Harbor, is located in downtown St. Petersburg and serves more than 620,000 people living in the Pinellas County.

The Sarasota Campus, adjacent to the State-owned Ringling Museum, is located on the north edge of Sarasota about ten miles south

of Bradenton on US 41. The campus serves a population of more than 320,000 persons in a four-county area.

The Fort Myers Campus serves more than 358,000 people in five counties on Florida's lower West Coast. The Campus has been located at the Gwynne Institute Building in downtown Fort Myers since its inception in 1974. It is expected that permanent facilities will be occupied in the Summer, 1982 on a new 55-acre campus being developed adjacent to Edison Community College.

While offering many of the positive characteristics of a small campus, the Regional Campuses of the University of South Florida have access to and are part of the resources of a major metropolitan university. The development of these campuses is expected to keep pace with the continuing growth of Florida's West Coast.

Academic Programs of USF Regional Campuses

The academic programs of the regional campuses are designed to serve students of junior, senior, and graduate standing. They are offered at times chosen to meet the special needs of these students most 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 College of Arts and Letters, Business Administration, Education, Engineering, Natural Sciences, Nursing, and Social and Behavioral Sciences.

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

Resident faculty members and Student Affairs staff provide, social, vocational, and academic counseling to students enrolled on the regional campuses. The resident staff of each campus is supplemented by professors and other staff members commuting from other USF campuses thereby providing additional scope to the academic programs and university services.

The University of South Florida at **Fort Myers** opened in September, 1974. Until 1982 the campus was located in the historic Gwynne Institute Building in the heart of downtown Fort Myers. This facility provided an interim location through the cooperation of the Lee County Public Schools. The campus is now located in permanent facilities on a 55-acre site adjacent to Edison Community College and provides for a significant amount of cooperation between the two institutions. USF programs and services moved to the new campus in the summer of 1982.

The University of South Florida at **Sarasota** was established in 1975 and serves students from Sarasota, Manatee, and neighboring counties with selected USF regular program areas.

The Sarasota Campus also is the home of New College of the University of South Florida. New College of USF is a liberal arts honors program, residential in nature, designed for students of high ability who seek the atmosphere of a small college with its accompanying individualized instruction.

Acquired by the State University System in 1975 from the Board of Trustees of the private institution, New College, the Sarasota Campus has 26 buildings including a student center, classrooms, a library with more than 170,000 volumes, science laboratories, and recreation facilities.

The University of South Florida at **St. Petersburg** is within easy walking distance of many cultural and recreational facilities in Florida's "Sunshine City." The campus added two new buildings in January, 1981 and a third is under construction. Programs in a broad variety of disciplines are available on the campus. Students at St. Petersburg also have the opportunity to participate in the U.S. Army ROTC program.

The St. Petersburg Campus also houses facilities for marine science research and training. The USF Department of Marine Science, with headquarters at the campus, is an interdisciplinary venture involving faculty from several departments in addition to 21 full-time regular faculty members who are responsible for graduate research and teaching in marine science.

Probably no other marine science program has such excellent facilities for teaching, research, and access to oceanographic vessels. The location of the campus at the central edge of the great continental shelf of the Florida Gulf Coast and in the midst of the metropolitan Sun Coast is a unique advantage. In addition, the Florida Institute of Oceanography, a special research institute of the State University System, is located on the St. Petersburg Campus. With these combined facilities, the University is destined to become one of the nation's leading oceanographic centers.

Continuing Education

In addition to the academic programs offered on the Tampa and regional campuses, a number of courses and programs are operated by the University of South Florida's School of Continuing Education in 15 West Coast Florida counties. In this area, the Florida Board of Regents has

designated the University of South Florida for all higher education requirements beyond those supplied by the State Community and Junior College System.

Special Programs

A number of special programs offer USF students flexibility and relevance. They include the Off-Campus Term Program, Bachelor of Independent Studies (External Degree Program), Cooperative Education Program, Weekend College and New College of USF. In addition, freshmen students may earn up to one full year of academic credit (45 hours) through the College Level Examination Program tests, high school students may apply for "early admis-

sion" or take college courses while still in high school, and any interested person may earn college credit via radio and WUSF-TV's televised course sequence—"Open University" (O.U.). Each of these programs is described elsewhere in this publication. You are encouraged to explore their potential for helping you attain your educational goals.

FACILITIES AND ATMOSPHERE ON CAMPUS

The facilities of the University, now including more than 40 major buildings, are currently valued at more than \$106 million. The buildings are of similar modern architectural design and all are completely air conditioned.

USF has a wide variety of recreational facilities, including three swimming pools, an excellent gym with weight training room, many tennis courts, a beautiful golf course, well-equipped University Center and others. Its academic and residential facilities are unexcelled in Florida—and all are air-conditioned and easily accessible from every cor-

ner of the well-kept campus, called by some "one of the prettiest in the nation." And parking spaces are always available somewhere on campus.

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

ORGANIZED FOR EFFECTIVENESS

The University is organized into the five broad areas of academic affairs, student affairs, administration & finance, employee relations and legal affairs, and university relations. The vice presidents who head these four units serve with the President as the principal policymaking officials of the University. In addition to the vice presidents, 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, your views count; they are solicited and given serious consideration. The President is responsible through the Chancellor to the Florida Board of Regents for internal policy and the procedures of the University. More detailed information on these matters is available in the Special Collections Room, USF Library.

University Relations

The Division of University Relations is organized to generate understanding of and support for the University among its many publics, internal and external, through a coordinated and comprehensive communications, development, information, and publications program. The Division includes the Offices of Alumni Affairs, Development, Governmental Relations, Community Relations, and Media Relations & Publications.

Office of Alumni Affairs

The purpose of the Office of Alumni Affairs is to stimulate and maintain alumni interest in the University of South Florida. In completing its mission, the office works primarily through the USF Alumni Association. A professional staff maintaining offices in the Student Services Building is responsible for administering alumni programs. In coordinating its effort through the Association, the Alumni Affairs office strives to interest, involve, and inform alumni.

In addition, the Alumni Affairs director serves as Executive Director of the Association and as such is responsible for managing the Alumni Association business and other program affairs. The Alumni Association exists primarily to support the University of South Florida. As a communication link between the University and its alumni, the Association provides the following: *Alumni scholarships*: currently awards 21 full one-year tuition scholarships. *Alumni Century Club*: An organization of alumni who contribute \$100 annually as members of the Century Club. *Telefund campaigns*: Each chapter conducts an annual telephone drive to raise scholarship dollars. *Graduating class*: The Association sponsors the USF Yearbook, honorary society socials, commencement, receptions, the King-O'Neal Award (for graduating seniors with a straight "A" average), outstanding senior award, and Distinguished Alumni awards.

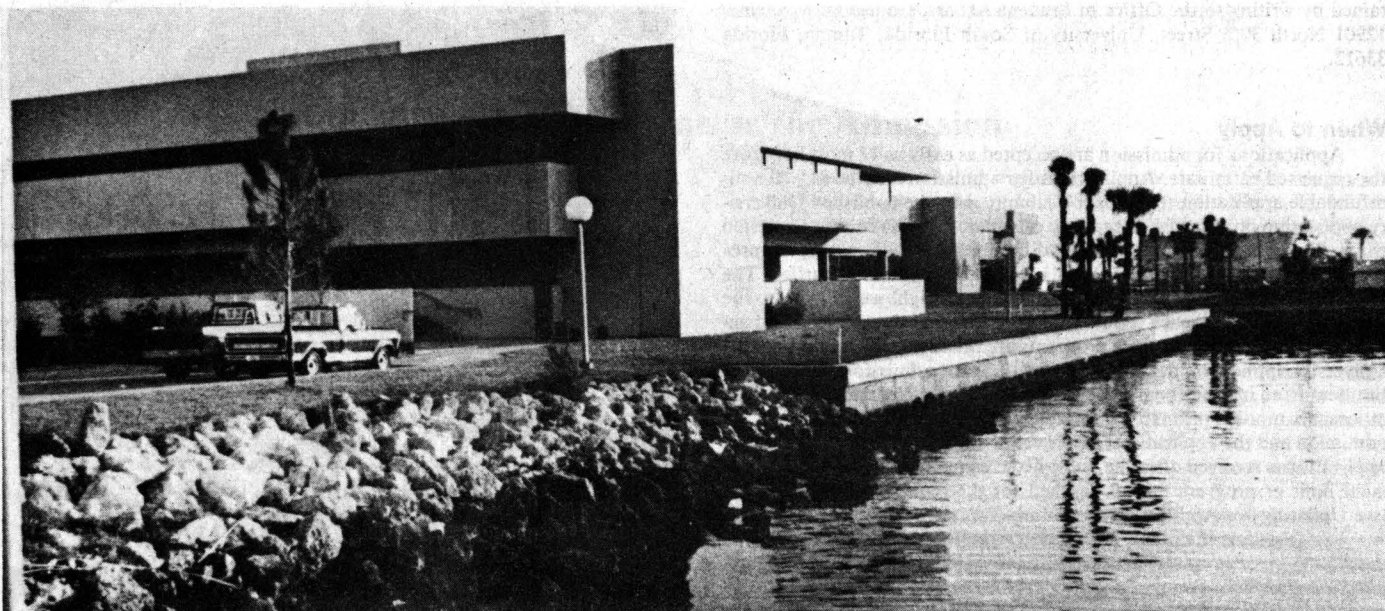
Office of Development

The purpose of the University Office of Development is to identify and solicit sources of private funding for the support of ongoing and selected new programs at USF for which State resources are not available or are insufficient to meet program objectives.

The Development Office solicits private contributions to the USF Foundation Inc. [a 501 (c)(3) non-profit corporation] through alumni and friends, corporations, foundations, organizations and by various types of deferred or planned gifts.

In completing its mission, the Development Office coordinates all University fund-raising programs. Approval for all new fund raising projects should be obtained through the Director of University Development.

Various support groups (the arts, athletics, library, sciences, business, engineering, etc.) seeking fund raising guidance and assistance may wish to consult with the Development Office.





ADMISSIONS AND RELATED MATTERS

The Office of Admissions, part of the Division of Student Affairs, administers the application and admissions processes for undergraduate and graduate students, assists prospective students in securing information about the University of South Florida and coordinates new student orientation programs.

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.

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. Minority and disadvantaged applicants who do not meet all minimum admissions requirements may be considered for admission if there is sufficient evidence to suggest their ability to do satisfactory work at USF. These policies are further described under "Applying for Admission" and "Requirements for Admission."

Students are admitted to the University of South Florida in accord 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) upper division 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) first-time-in-college students; (4) other upper division transfer students; (5) other lower division transfer students. 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, University of South Florida, Tampa, Florida 33620. All of the application forms are also available on USF regional campuses in St. Petersburg, Sarasota and Fort Myers. (When requesting an application, please indicate applicant category—freshman, undergraduate transfer, graduate, or international student.)

Applications for admission to the College of Medicine may be obtained by writing to the Office of Student Affairs, College of Medicine, 12901 North 30th Street, University of South Florida, 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 fees must be submitted by the published University application deadline (see academic calendar, page X) 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 eight 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 six 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 Updating An Application for Admission, page 13)

For first-time-in-college and undergraduate transfer applicants, *the deadline for receipt of the credentials is two weeks after the governing application deadline.* For 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 previously been admitted to a University of South Florida degree program. Former USF degree-seeking students must file another application for admission when applying for a second degree program or another level of study. Students who have previously been admitted and enrolled as degree-seeking students and have 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 who are Florida residents 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 applicant.



Updating An Application for Admission

Applicants who are accepted for admission and do not enroll in the term for which admitted or applicants for whom an admissions decision has not been made because of missing credentials may request a new entry date that is within 12 months of the originally requested entry date. All requests for change of entry date, must be submitted in writing, must specify the new anticipated entry date, and must be received by the published application deadline for the new term of entry and/or degree

program requested. An applicant will be permitted to request a change of entry date twice without submission of another application and payment of another application fee. A new application and fee must be submitted when 12 months have elapsed since 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.
- 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 substantiate eligibility for admission before a second registration will be permitted.
- All undergraduate applicants who are denied admission have the right to appeal and will be advised of the appeal procedures by the Office of Admissions. The Faculty Committee on Student Admissions will hear all undergraduate appeals for admission.
- 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, of 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 or 90 quarter hours of credit are required to earn at least 9 semester hours during one or more summer semesters prior to graduation. (See Summer Enrollment Requirements, page 34.)
- Prior to beginning classes, all new undergraduate students 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. Normally lasting one to one-and-a-half days, 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 FOCUS: YOU AND USF, a special summer Orientation/Academic Advising/Registration program for new undergraduates and parents of freshmen. The FOCUS: YOU AND USF information packet will automatically be mailed to students accepted through July 1, beginning in April.

- Non-degree seeking (special) students will be permitted to register for courses on a space available basis.
- Performance in courses taken as a non-degree seeking (special) student will not qualify an applicant for admission as a degree seeking student.
- First-time-in-college 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.

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* and *Mass Communications* in the College of Arts and Letters; *all degree programs in the College of Business Administration*; *Health Education* and *Professional Physical Education* in the College of Education; *all degree programs in the College of Engineering*; *all degree programs in the College of Nursing*; *Social Work* in the College of Social and Behavioral Sciences. The admissions requirements for these degree programs may be found with other program information in appropriate sections of this catalog.

Minimum Requirements for Admission

First-Time-In-College Applicants

To be considered for admission, first-time-in-college 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.

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 Program are exempted from this requirement. Other minimum requirements are as follows:

1. First-time-in-college applicants must submit an official test score from the Scholastic Aptitude Test (SAT) of the College Entrance Examination Board *or* from the American College Test (ACT).
2. For first-time-in-college applicants earning a high school diploma, the following academic units (non-remedial, year-long courses) to be completed in grades nine through twelve are being phased in as a requirement.
 - a. *Recommended for entry beginning in the Fall Semester, 1982:* three units of English (two of the three should incorporate

substantial writing requirements); two units of mathematics (algebra I or above); two units of natural science (one of the two should incorporate substantial laboratory requirements); and five additional units from the areas of English, mathematics, natural science, social science, and foreign language.

- b. *Required for entry beginning in the Fall Semester, 1984:* three units of English (two of the three must incorporate substantial writing requirements); two units of mathematics (algebra I and above); two units of natural science (one of the two must incorporate substantial laboratory requirements); and five additional units from the areas of English, mathematics, natural science, social science, and foreign language.
- c. *Required for entry beginning in the Fall Semester, 1986:* four units of English (three of the four must incorporate substantial writing requirements); three units of mathematics (algebra I or above); three units of natural science (one of the three must incorporate substantial laboratory requirements);

and six additional units from the areas of English, mathematics, natural sciences, social science, and foreign language.

3. First-time-in-college applicants must meet one of the following:
 - a. At least a "B" average (3.0 on a 4.0 scale), as computed by USF, in all non-remedial, academic courses in English, mathematics, natural science, social science, and foreign language taken in grades nine through twelve. (An SAT or ACT score must be submitted but no minimum is required.)
 - b. At least a "C" average (2.0 on a 4.0 scale), as computed by USF, in all non-remedial, academic courses in English, mathematics, natural science, social science, and foreign language taken in grades nine through twelve *and* a total score of at least 850 on the combined verbal and quantitative parts of the SAT or a composite score of 18 on the ACT.
 - 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* a total score of at least 850 on the combined verbal and quantitative parts of the SAT or a composite score of 18 on the ACT.
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 on academic probation with the condition that they must take a specified sequence of English courses. International citizens (non-resident aliens) must also comply with all requirements for admission of international applicants (page 14).
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.
6. The University may admit an approval percentage of the projected freshman enrollment with eligibility criteria other than the minimums established by the Board of Regents. This alternative will be utilized for those freshman applicants who, based on all appropriate evidence, can reasonably be expected to do satisfactory academic work at the University of South Florida and whose addition to the student body helps the University's aims to commitment to equal opportunity/affirmative action goals, academic excellence and other special needs of the University. First-time-in-college applicants who do not meet stated requirements should submit appropriate alternative evidence of academic achievement, ability, motivation and responsibility that indicates potential for successful academic work at the University of South Florida.

Early Admission Applicants (First-Time-In-College)

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, applicants 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. Early admission applicants are evaluated on an individual basis and must demonstrate strong capability for academic work based on the high school record and admissions test scores.

Undergraduate Transfer Applicants

The University of South Florida accepts transfer credits only from those institutions accredited by one of the six regional accrediting agencies. If the applicant is applying from a non-accredited school, the admission decision will be based on the student's prior work, if any, at an accredited institution.

To be considered for admission, *transfer applicants with fewer than 52 semester or 78 quarter hours of earned college credits* must submit an SUS Application, for Admission, a non-refundable application fee of \$15.00, an official high school transcript, an official GED score if applicable, SAT or ACT scores, official transcripts from all colleges attend-

ed, and a TOEFL score if applicable.

To be considered for admission, *transfer applicants with 52 or more semester or 78 or more quarter hours of earned college credit* must submit an SUS Application for Admission, a non-refundable application fee of \$15.00, official transcripts from all colleges attended, and a TOEFL score if applicable.

A.A. Degree Graduates from Florida Public Community/Junior Colleges and SUS Institutions will be admitted as juniors into the upper division of the University within curricular, space, and fiscal limitations. Official transcripts should be submitted *after* the A.A. degree has been posted, unless the applicant is applying for nursing or physical education programs or for financial aid. These A.A. degree graduates seeking admission to a limited access degree program must also meet all requirements specified by that program.

The admission of Florida community/junior college A.A. transfer students is governed by the Articulation Agreement between the state universities and public community/junior colleges in Florida (see page 44).

Undergraduate transfer students who have attended another college *after* receipt of the A.A. must meet the same minimum requirements as undergraduate transfers who have not earned the A.A. from a public community/junior college or State University in Florida.

Undergraduate Transfers Who Have Not Earned an A.A. Degree from a Florida Community/Junior College or SUS Institution must meet the following requirements:

1. Undergraduate transfer applicants must be in good standing and eligible to return to the last regionally accredited institution attended as a degree-seeking student.
2. Undergraduate transfer applicants must have an overall "C" (2.0 on a 4.0 scale) in all college level work attempted and at least a "C" average at the last regionally accredited school attended.
3. Undergraduate transfer applicants with fewer than 52 semester or 78 quarter hours must also satisfy the minimum admissions requirements for first-time-in-college applicants listed above. (see page 13).
4. An undergraduate transfer applicant whose native language is not English must present a minimum score of 550 on the Test of English as a Foreign Language (TOEFL). The TOEFL requirement may be waived 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 academic probation with the condition that they must take a specified sequence of English courses. International citizens (non-resident aliens) must also comply with all requirements for international applicants (see page 14).
5. Undergraduate transfer applicants seeking admission to a limited access degree program must also meet all requirements specified by that program.
6. Exceptions to University admissions criteria may be made on an individual basis when a student, based on all appropriate evidence, can reasonably be expected to do satisfactory academic work at the University of South Florida and 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. Applicants who do not meet stated requirements should submit appropriate alternative evidence of academic achievement, ability, motivation, and responsibility that indicates potential for successful academic work at USF.

Graduate Applicants

Graduate applicants should refer to the section on the Graduate School (page 48).

International Applicants (non-resident alien)

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, a TOEFL score if applicable, a Statement of Financial Responsibility, a recommendation from last institution attended, undergraduate or graduate admissions test scores as specified for appropriate applicant category, and transcripts showing subjects and grades from the first year of secondary work to the time of application. (Transcripts in a language other than English must be accompanied by a certified English translation signed and sealed by the

United States Consul or other authorized government official.)

An international applicant (non-resident alien) must meet *all* admission requirements for the appropriate applicant category (first-time-in-college, 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. If otherwise qualified, applicants who present TOEFL scores between 500 and 550 may be considered for admission on academic probation with the condition that they must take a specified sequence of English courses.
2. International applicants must present evidence of United States equivalent qualifications and academic preparation for desired degree program.
3. International applicants must be in good standing at the last institution attended.
4. International applicants must show proof of financial resources sufficient to cover all educational, maintenance, and personal expenses while attending USF, without financial assistance from the University.
5. 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 comes to the University from a regionally accredited institution and is permitted to enroll at USF for one term only before returning to the parent institution.

SUS undergraduate transient applicants must submit an SUS Application for Admission, a recommendation from an academic dean at the parent institution, and evidence of a visiting arrangement with the appropriate dean at USF initiated by an academic dean at the parent institution. SUS applicants who submit the required credentials by the published application deadline date for the term requested (see page 4, 5) will be cleared for enrollment.

Non-SUS undergraduate transient applicants must submit an SUS Application for Admission, a non-refundable application fee of \$15.00, and a statement from the Registrar at the parent institution documenting that the applicant is in good standing. Non-SUS applicants who submit the required credentials by the published deadline date will be cleared for enrollment.

Non-Degree Seeking (Special) Student

The Non-degree seeking (special) student enrollment process 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 upper level (3000 and above) in 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 seekers 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 (attn: Registration area) prior to registration.

Individuals enrolling as non-degree seekers 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 (special) 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 Admission must be petitioned for a waiver of this ruling.

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 Dual registration program. Non-degree seeking students are subject to the academic probation and dismissal policy listed on page 31 of 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 the Division of University Studies or the representative for the college offering the courses in which the student seeks to enroll. See page 31 for further information. 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.

*Florida residents, 60 years of age or older by the first day of a respective term (Florida Senior Citizens), may attend on a space-available basis certain undergraduate and graduate courses without paying fees. Examinations will not be required nor will grades be given. A maximum of 3 courses per term may be taken. Complimentary parking permits and library cards will be provided for these individuals. Senior citizens register by attending the special Senior Citizen registration or by presenting the *Non-Degree Seeking Registration Form of Senior Citizen Tuition Waiver* to the course instructor during the registration period printed in the University Class Schedule (Please be certain not to use the Non-Degree Seeking (Special) Student Form. Fees must accompany that form.) Advisement regarding this type of enrollment will be available at the Information and Registration Session held each term. During the first 5 days of the term, forms will be available in the Registrar's Office, Student Services Building (SVC) room 137. Further information may be obtained by contacting the Pre-Admission Advisor for Mature Students in the Office of New Student Relations, Student Services Building (SVC) 122, (813) 974-2076. Senior citizens desirous of taking courses on one of USF's regional campuses should contact the respective campus' Registrar's Office for registration instructions.

General registration procedures for non-degree seekers are as follows:

I. Centralized Registration

Refer to the University Class Schedule for the date when non-degree seekers may register in the USF Gymnasium and complete registration instructions.

II. De-Centralized Registration

Students may register on the Non-Degree Seeking (Special) Student Registration Form during the first five days of classes. Forms will be available in the Registrar's Office Forms Rack in the SVC lobby and in the colleges at the beginning of the Centralized non-degree seeking registration period. Refer to the University Class Schedule for specific dates, times, and complete registration instructions.

*See Florida residency requirements on page 19 of 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 pre-advised by and obtain the Non-Degree Seeking Registration Form (Special Student) from Academic Services in the Division of Undergraduate Studies on the Tampa Campus. Dual enrollees register as non-degree seeking (special) 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 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.

Lifelong Learning: Mature Student Counseling

Recognizing that education is a life-long process, the University of South Florida has developed programs and courses designed specifically to meet the needs of students over 25 years of age. The University seeks to promote a better understanding of life in a changing world by means of instruction offered in a variety of ways-with and without academic credit. Programs 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 and now wish to earn the bachelor's degree. A wide variety of courses and programs is offered in the daytime, evening, and thru 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 life. In addition, the Tuition Waiver for Senior Citizens is offered for Florida citizens age 60 and over (see below).

Students who are above the traditional college age often have unique educational considerations that require special services. Pre-admission counseling for mature students is available in the Division of Lifelong Learning, School of Continuing Education.

Senior Citizen Tuition Waiver

Florida residents, 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 without paying tuition. Academic credit will not be awarded, examinations will not be required nor will grades be given. A maximum of 3 courses per semester/term may be taken.

An orientation registration 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 in the School of Continuing Education.

Readmission (Former Students Returning)

A former Student Returning (FSR) is any degree-seeking student who has not earned his/her degree and who has not been in attendance at the University during either of the two terms immediately preceding the term that enrollment is desired. Such students should secure a Former Student Returning Application from the Office of Records and Registration and return it to that office by the deadline indicated in the Academic Calendar to avoid extended delay at registration. Consult the appropriate semester's University Class Schedule for any procedural changes.

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. If attended another institution since last attending USF:
 - a. Be in good standing and eligible to return to the last institution attended as a degree-seeking student.
 - b. Have achieved a grade point average of at least 2.0 on a 4.0 system on all college level academic courses attempted at institution(s) previously attended and also at the last institution attended.

Students who have attended another institution since their last enrollment must request that official transcripts of all work attempted at the other institution be sent to the USF Office of Records and Registration, Attention: Evaluation Clerk.

Former undergraduate students who have completed their baccalaureate degree, transient students, and non-degree seeking (Special) students who wish to enter graduate study for the first as degree seekers must file a Graduate application in the Office of Admissions prior to the deadline listed in this catalog. An admission application fee is required for all students who have enrolled only for Continuing Education (off-campus) courses and for those who re-enrolled only as Non-Degree Seeking (Special) students. Students in the above categories are not considered Former Students Returning.

NOTE: Former USF students who have earned their baccalaureate degree at USF or at another institution and who now desire to return to USF to earn another undergraduate degree must file an "Undergraduate Application" with the Office of Admissions; no fee is required. A student may not work on a second undergraduate major or degree if he/she has been accepted into a graduate program.

Evaluation of Transfer of Credit

1. University of South Florida will accept credits only from those institutions accredited by one of the six regional 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 University Registrar. The Office of the Registrar 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. Transfer students should be prepared with a personal copy 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. Effective Fall Quarter (I), 1976, all courses from a Florida Community College/University, bearing the same State Common Course prefix and last three numbers, are automatically transferred and transfer students may not be required to repeat these courses. Excluded are graduate courses, studio courses in art, internships, practicums, and performing arts courses—dance, acting, vocal, and instrumental music.
3. A transfer student from an accredited junior/community college may satisfy the General Distribution Requirements of the University by completing (before transfer) the general education program prescribed by the institution. Transcripts must certify that the general education requirements have been completed and, if appropriate, include graduation data.
4. Once students have earned a total of 60 semester hours of credit from one or more institutions, they may not transfer to USF any additional credit hours earned at lower level institutions. Under special circumstances, students may petition through the Academic Regulations Committee for acceptance of subsequent lower level transfer work above the 60 hours. At least 60 semester hours of work credited toward the baccalaureate degree must be earned in a senior institution.
5. Credit will not be awarded for GED tests.
6. 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.
7. A maximum of eight semester hours of credit for ROTC and military science courses will be awarded. Specific applicability towards a degree will vary with each college. Student must confer with his/her college adviser to determine the acceptability for his/her major. This was effective Quarter I (Fall), 1975. ROTC and military science taken prior to Fall, 1975 are not acceptable for transfer credit.
8. A maximum of 30 semester hours of extension, correspondence, military service education and College Level Examination Program (general examinations) credits can be applied toward a degree.
9. When transferring courses from previous institutions, USF will accept only the credit hours earned. *Grades* for those hours are not transferable. This means those grades will not be computed in the student's grade point average.
10. Foreign transcripts will be evaluated by the Office of the Registrar 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.

*Accrediting Agencies:

New England Association of Schools and Colleges
Middle States Association of Colleges and Secondary Schools, Commission on Institutions of Higher Education.

North Central Association of Colleges and Schools, Commission on Colleges and Universities

Northwest Association of Secondary and Higher Schools, Commission on Higher Schools

Southern Association of Colleges and Schools, Commission on Colleges

Western Association of Schools and Colleges. Accrediting Commission for Senior Colleges and Universities and Accrediting Commission for Junior Colleges.

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, page 40).
2. Recognition of satisfactory performance on tests offered through Advanced Placement Programs of the College Entrance Examination Board (see Advanced Placement Credit Programs, page 40).
3. Dual enrollment as a special (non-degree) student at USF prior to graduation from high school or a community college (see Dual Enrollment (High School), page 15 and USF Florida Public Community College Dual Enrollment, page 38).
4. Early admission for high school students (see Early Admission (First-Time-In-College) on page 15).
5. Open University (O.U.) courses by television (see page 45).

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.

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. To achieve this goal, an academic advising office is maintained in each of the eight colleges offering baccalaureate degrees and in the Office of Academic Services.

Any student entering the University with fewer than 60 semester hours and upper level transfer students without an academic major are assigned initially to the Office of Academic Services for academic advising. These students may declare a major (in most instances) by completing a form in the appropriate college advising office. Because of the highly structured nature of some programs, it is important that students check the college section of the catalog for advising or admission requirements (e.g., see College of Fine Arts and College of Engineering). Students who do not wish to declare a major are advised by the advising office in Academic Services. A student must declare a major no later than the end of the junior year (90 semester hours).

Students transferring to the University with 60 semester hours or more with a major are assigned to the college of that major for advising. It is necessary, however, that all students check in with their colleges upon arrival on campus during the Orientation Program. The purpose of the initial contact is to assign an academic adviser and to provide the college with routine information which assists the college in collecting and maintaining the necessary records to assure the student's proper progress toward educational goals.

In a few cases, only a limited number of students can be admitted to a particular major. Students planning to enter such programs should be aware of this situation and should be prepared with alternative plans of action.

All students are encouraged to establish an advising relationship with a college or the Advising Office in Academic Services 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.

Articulation Agreement Summary

More than half the students enrolled in the upper division of the state universities have a community college origin. To accommodate this partnership, an articulation agreement between the state universities and public community/junior colleges in Florida 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 of 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 completed satisfactorily 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 lower division 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.

To assure continuity, high quality, and commonality in advising (to the extent possible with widely varying programs), the coordinator of advising of reach college and the Office of Academic Services, 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.



Course Registration for Admitted Students

Course registration is conducted in person by appointment during both the early and regular registration periods each semester. Appointment times and registration instructions are published each semester in the University Class Schedule. Students are encouraged to register early to allow time for schedule adjustments by the colleges.

Schedule adjustments for students who register during early or regular registration may make schedule adjustments during the regular drop/add period. (Deadline information is available in the Academic Calendar).

Any student wishing to enroll simultaneously in evening and daytime classes must register and pay fees in the manner prescribed for students

attending campus daytime classes. (See Schedule of Classes for evening registration dates and times.)

Students who do not register for classes by the close of the regular registration period may register during late registration, the first week of classes. A \$25.00 late registration fee is charged for this privilege. (See the section on fees for additional information and the appropriate semester's University Class Schedule for dates.) *Fees must be paid for all courses registered for at the end of the regular drop/add period* (See Academic Calendar for dates).

Continuing Education Credit Courses

Through its School of Continuing Education, 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 as a degree seeking student (see Requirements for Admission) at an early date so that courses taken may be considered for inclusion in a program of studies (see appropriate college programs).

To assure quality of instruction, continuing education credit courses, for the most part, are taught by the regular faculty of the University. When this is not possible, outstanding instructional personnel are recruited from neighboring accredited institutions. In addition, the 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 superintendents 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 Continuing Education, University of South Florida, Tampa, Florida 33620.

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 Records and Registration, the School of Continuing Education, from the local county school board offices, or from the course instructor at the first class session.

1. The enrollment form and payment of fees must be postmarked no later than the deadline announced in the University Class Schedule.
2. On-campus students enrolling in a continuing education course must use the enrollment by mail procedure.
3. Fees for continuing education courses are assessed the same as fees for classified and unclassified students. Consult the Fees Section on page 20 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.

USF Library at night





FINANCIAL INFORMATION

Resident Status—Florida and Non-Florida

1. For the purpose of assessing registration and tuition fees, a student shall be classified as a "Florida" or "non-Florida" student.

(a) A "Florida student" is a person who has domicile in and who shall have resided in the State of Florida for at least twelve (12) consecutive months immediately preceding the first day of classes of the academic term in which the student enrolls. In determining residency, the University may require evidence such as voter registration card, driver's license, automobile registration, location of bank account, rent receipts, or any other relevant materials as evidence that the applicant has maintained continuous residency. Physical presence for the entire twelve-month period need not be required so long as the conduct of the student, taken in total, manifests an intention to make Florida his or her permanent dwelling place. If such student is a minor, it shall mean that the parent or parents, or legal guardian of the student shall have domicile in and have resided in the state of Florida for the period stated above. "Florida student" classification shall also be construed to include students who hold an Immigration and Naturalization Form 1-151, Resident Alien Registration Receipt Card, or Cuban Nationals or Vietnamese Refugees who are considered as Resident Aliens, provided such students meet the residency requirements stated above and comply with subsection 2, below. The burden of establishing facts which justify classification of a student as a resident and domiciliary entitled to "Florida student" registration rates is on the applicant for such classification. A resident alien student, to qualify for Florida residency, must have resided in the state of Florida for 12 months after receipt of his/her resident alien status. This is to include a resident alien parent of a student who is under the age of 18.

(b) In applying this policy:

- (1) "Student" shall mean a person admitted to the institution, or a person allowed to register at the institution on a space available basis.
- (2) "Minor" shall mean a person who has not attained the age of 18 years, and whose disabilities of minority have not been removed by reason of marriage or by a court of competent jurisdiction.
- (3) "Domicile" for fee paying purposes shall denote a person's true, fixed, and permanent home and place of habitation. It is the place where the applicant lives and remains and to which he expects to return when he leaves, without intent to establish domicile elsewhere.
- (4) "Parent" shall mean a minor's father or mother, or if one parent has custody of a minor applicant, it is the parent having court assigned financial responsibility for the education of the student; or if there is a court appointed guardian or legal custodian of the minor applicant, it shall mean the guardian or legal custodian.
- (5) The term "dependent as defined in sections 151(c)(1)(2)(3) and (4) of the Internal Revenue Code of 1954. A copy of these provisions in the Internal Revenue Code of 1954 is incorporated in this rule by reference.
- (6) A "non-Florida" student is a person not meeting the requirements of subsection (a) above.

2. In all applications for admission or registration at the institution on a space available basis, a Florida applicant, or, if a minor, the parent or legal guardian of the minor applicant, shall make and file with such application a written statement, under oath, that the applicant is a bona fide citizen, resident, and domiciliary of the state of Florida, entitled as such to classification as a "Florida student" classification must be supported by evidence as stated in Section 6C-7.05(1), Administrative Code of Florida, if requested by the registering authority.

3. A "non-Florida student" or, if a minor, his parent or guardian, after having been a resident and domiciliary of Florida for twelve (12) consecutive months, may apply for and be granted reclassification prior to the first day of classes of any subsequent term; provided, however, that those students who are non-resident aliens or who are in the United States on a non-immigration visa will not be entitled to reclassification. A "non-Florida student" must have resided in the state of Florida with the intent

to establish domicile for at least twelve (12) consecutive months after reaching the age of majority. An application for reclassification as a "Florida student" shall comply with provisions of subsections 2, above. An applicant who has been classified as a "non-Florida student" at time or original enrollment shall furnish evidence as stated in Sec. 6C-7.05(1), Administrative Code of Florida, to the satisfaction of the registering authority that the applicant has maintained continuous residency in the state for the twelve months required to establish residence for tuition purposes. In the absence of such evidence, the applicant shall not be reclassified as a "Florida student." In addition, the application for reclassification must be accompanied by a certified copy of a declaration of intent to establish legal domicile in the state, which intent must have been filed with the Clerk of the Circuit Court, as provided by Section 222.17, Florida Statutes. If the request for reclassification and the necessary documentation is not received by the Registrar prior to the last day of registration for the term in which the student intends to be reclassified, the student will not be reclassified for that term.

4. Unless evidence to the contrary appears, it shall be presumed by the registering authority of the institution at which a student is registered that:

(a) The spouse of any person who is classified or is eligible for classification as a "Florida student" is likewise entitled to classification as a "Florida student". This provision will not apply in the case of students who are non-resident aliens or who are in the United States on a non-immigration visa.

(b) If an applicant's eligibility for classification as a "Florida student" is based on the residency of the spouse, the spouse shall make and file with the application a written statement under oath, that said person is the spouse of the applicant and a bona fide citizen, resident and domiciliary of the state of Florida, entitled as such to classification as a "Florida student."

(c) No person over the age of 18 years shall be deemed to have gained residence while attending any educational institution in this state as a full-time student, as such status is defined by the Board of Regents, in the absence of a clear demonstration that he has established domicile and residency in the state, as provided under subsection 3, above.

(d) Any "Florida student" who remains in the state, after his/her parent, who was previously domiciled in Florida or stationed in Florida on military orders removes from this state, shall be entitled to remain classified as a "Florida student" so long as his or her attendance at a school or schools in Florida shall be deemed "continuous." However, such student claiming continuous attendance must have been enrolled at a Florida school, college or university for a normal academic year in each calendar year, or the appropriate portion or portions thereof, from the beginning of the period for which continuous attendance is claimed. Such a student need not attend summer sessions or other such intersession beyond the normal academic year in order to render his attendance "continuous."

5. Appeal from a determination denying Florida status to any applicant therefore may be initiated after appropriate administrative remedies are exhausted by the filing of a petition for review pursuant to Section 120.68 Florida Statutes in the District Court of Appeal in the appellate district in which the institution maintains its headquarters or where a party resides.

6. Any student granted status as a "Florida student" which status is based on a sworn statement which is false shall, upon a determination of such falsity, be subject to such disciplinary sanctions as may be imposed by the president of the university.

7. Special Categories—The following categories shall be treated as Florida residents for tuition purposes if adequate documentation is provided:

(a) A member of the Armed Services of the United States who is stationed in Florida on active duty pursuant to military orders, the spouse and dependent students. Military duty must be verified by a copy of the military orders and a statement from the unit commander stating that the student is on active duty and the date stationed in Florida.

(b) A veteran of the Armed Forces of the United States of America with twenty (20) or more years of active military service, including the spouse and dependent students of such veteran's immediate family, provided that the veteran is in Florida at time of retirement or moves to Florida within one year following retirement and files a declaration of Florida domicile. Military service must be verified by a copy of DD 214 and a notarized statement that the student has moved to Florida with the intention of making Florida his permanent home and the date moved.

(c) Full-time elementary, secondary, and community college faculty members under current teaching contracts in the state of Florida, and their spouses and dependent students. Contractual status must be verified by a written statement from school official or copy of teaching contract.

(d) Full-time faculty, administrative and professional, and career service employees of the University System and their spouses and dependent students. Employment status must be verified by a statement from his employer.

(e) A student certified by his respective state for participation in the Academic Common Market Program of the Southern Regional Education Board who is enrolled in a program approved by the Florida Board of Regents.

(f) Florida domiciliaries living in the Panama Canal Zone who have not established domicile elsewhere, including the spouse and dependent students.

(g) Florida residents who had their residency in Florida interrupted by service in the U.S. armed forces, the Peace Corps or other similar volunteer organizations fostered by the United States government shall be deemed to have had residency in Florida during times of service in the aforementioned organizations.

8. Reciprocal Agreements. The Board of Regents may enter into agreements with appropriate agencies and institutions or higher education

in other states and foreign countries providing for the reciprocal exchange of students enrolled and prospective in higher educational institutions to facilitate utilization of public higher educational institutions in this State and other states or countries. Such agreements may include provisions for waiver or reduction of non-resident tuition for designated categories of students and may include contractual payments to such other state or country, subject to the availability of appropriations. Such agreements shall have as their purpose the mutual improvement of educational advantages for residents of this State and such other states or countries with whom agreements may be made.

To establish Florida residence, a student applying for admission should complete the residence affidavit on the application form. The Director of Admissions is responsible for and will make the residency determination for all new first time entering students and for former students returning at a new level by means of a new application. Decisions may be appealed as designated in University rules to the Vice President of Student Affairs.

To change status from non-Florida, a student must do the following:

1. Obtain a "Change of Residency Request" form from the Registrar's Office. Complete the form and attach all the requested copies of proof of residency to the form.
2. Obtain a Declaration of Domicile at the county courthouse in the county of residency, have it notarized and recorded at that courthouse. Attach a "copy" of the recorded document to the Change of Residency form.
3. Submit the above forms to the Registrar's Office.
4. The above forms and documents must be submitted no later than the fifth day of classes for the term requested, if reclassification is to be considered.

Fees

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 page 39.

All fees are subject to change by action of the State Legislature, 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. 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 the student being assessed the \$25.00 late payment fee.
- A. Fee Structure**
Fees are assessed by course level—not student classification.

Course Level	Resident	Anticipated Fees Per Credit Hour Non-Resident*
Undergraduate		
Lower level (0001-2999)	\$25.00	\$ 66.00
Upper level (3000-4999)	28.00	91.00
Graduate (5000 and over)	38.00	110.00
Thesis and Dissertation	41.00	113.00

*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) In addition to the above, each student who enrolls for six or more credit hours on the Tampa or Sarasota Campus must pay a \$23.00 student health fee for the semester. A student enrolling for five or less credit hours on the Tampa or Sarasota Campus may voluntarily pay the health fee by the end of the first week of classes.
 - (3) Effective Summer 1982, the undergraduate fees shown above will be reduced by an estimated \$11.00 per credit hour for courses taken during the Summer session.
 - (4) 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.

Students who are *not* registered for any courses and apply for graduation must pay for one hour at the level of graduation (i.e., \$28.00 for a Bachelor's degree or Associate of Arts degree and \$38.00 for a higher level degree).

- (5) **Cashier's Office Hours—**
Regular Registration—See regular registration dates and times in "Schedule of Classes" for appropriate semester.
First Week of Classes—Monday through Thursday, 9:00 a.m. through 6:30 p.m.
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
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.
First Week of Classes—Monday through Thursday, Cashier's Office, ADM 131, 9:00 a.m. through 6:30 p.m.
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, 5:00 p.m. through 10:00 p.m.

B. Off-Campus Courses

Students taking off-campus (Continuing Education) courses will be assessed the same fees as stated in "A" above except for the Health Fee. Continuing Education courses are designated by the "0700 series" section number. The "Schedule of Classes," which is printed each semester, can be used as a reference for updated information.

3. College of Medicine Registration Fees

A Florida student enrolled in the M.D. program in the College of Medicine will pay a fee of \$2,037.00 per year in installments of \$509.25 each to be paid in July, October, January, and April. A non-Florida student enrolled in the M.D. program in the College of Medicine shall pay a fee of \$4,763.00 per year in installments of \$1,290.75 each to be paid in July, October, January, and April.

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. This is separate from the late payment fee.

5. Financial Aid Payments

Financial aid warrants are available, after registering during the first week of classes in the Administration Building. Warrants must be picked up and fees paid by the end of the first week of classes. Any recipient not responding by the end of the first week of classes will be subject to a \$25.00 late payment fee unless prior arrangements are made with the Loans and Scholarships Office.

6. Late Payment Fee

All registration fees and all courses which were added during the Drop/Add period must be paid in full by the payment deadline date specified in the "Schedule of Classes" printed each semester or a late payment fee will be assessed. A \$25.00 late payment fee will also be assessed to students whose registration checks are returned and not cleared by the specified payment deadline. The University can only charge a maximum of \$25.00 in total late fees for a single semester.

7. 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") may have their registration for that semester cancelled. This means, specifically, that a student will receive no credit for any courses taken during that semester. Students who are allowed to register in error may have their registration cancelled. Any fees paid by that student will be refunded to the student or credited against other charges due the University.

8. Intern Certificate of Participation

Students who present Intern Certificates for payment of their registration fees will have to pay \$3.76 per hour charge for all credit

hours taken during the semester. By paying \$3.76 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.

9. 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, 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. If not brought in during the first week of classes, the employee is subject to a \$25.00 late fee charge. All hours in excess of six must be paid for at the regular rate. State employees registering under this rule for twelve or more credit hours shall also pay the student health fee.

10. 60-Day Deferment for VA Students

Students receiving VA benefits who have applied in writing no later than the specified date 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.

11. Room Rent

Room rent is paid in accordance with information in the Housing Catalogue.**

Per Semester

\$425.00

12. Food Service

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

15 Meal Plan per Semester

\$453.75

20 Meal Plan per Semester

\$495.00

**Prices listed are subject to change for the academic year 1982-83. Food Service prices may be revised each semester, if necessary.

Refund of Fees

Registration fees will be refunded under certain conditions upon presentation to the Division of Finance and Accounting of an authorization issued by the Office of the Registrar.

1. Issuance

The processing of a registration refund will be detained for a two-week period immediately following the last day to pay fees without a late fee.

2. Withdrawals/Drops

A. When officially requested by a student, a full refund of registration fees will be made if a student withdraws from the University or drops classes on or before the final day of the regular "Drop/Add" period.

B. No refund of registration fees will be made if the student withdraws/drops after the final day of the "Drop/Add" period except in the following cases:

(1) University action beyond the student's control, (i.e., cancellation of course(s), course prerequisites not met, misadvisement, administrative error, etc.) with supporting explanatory statement on University letterhead from the appropriate official—All course fees are refunded, but requests must be made by the end of the term immediately following the term in which the errors/action occurred.

(2) Withdrawal for non-exceptional circumstances from all classes after the end of the drop/add period, but prior to the end of the fourth week of classes—In these cases, the refund is partial and is calculated as follows: (Total Course Fees minus the Health Fee, Late Fee, and \$3.76 per credit hour) x 25% = Refund. Students must complete a Refund Request Form in the Office of Finance and Accounting for this category of refunds.

(3) Drops or withdrawals from courses for exceptional circumstances during the second week of classes—A detailed explanatory statement and documentation must be attached to a Fee Adjustment Form and must be submitted to the Office of the Registrar by the end of the second week of classes. These exceptional circumstances must be acknowledged by the University as being well beyond the control of the student. In these cases the refund, if approved, is partial and is calculated as follows: (Total Course Fees minus the Health Fee, Late Fee, and \$3.76 per credit hour) x 80% = Refund.

(4) Drops or withdrawals from courses for exceptional circumstances after the end of the second week of classes but prior to the end of the eighth week of classes—A detailed explanatory statement and documentation must be attached to the Fee Adjustment Form and the request must be submitted to

University Center



the Office of the Registrar during the third week through the eighth week of classes. These circumstances must also be acknowledged by the University as being well beyond the control of the student. In these cases the refund, if approved is partial and is calculated as follows: (Total Course Fees minus the Health Fee, Late Fee, and \$3.76 per credit hour) x 25% = Refund.

In no case will a fee adjustment be made for exceptional circumstances after the end of the eighth week of classes.

3. Cancellations

- A. A student who at any time has his registration cancelled by the University because he was allowed to register in error is entitled to a full refund of his registration fees.
- B. A student may be cancelled by the University when registration and tuition fees are not paid in full by the last day of the regular "Drop/Add" period (first week of classes), except when a deferment is granted by the University.

4. Reduction of Class Load

A student must officially drop a course within the "Drop/Add" period in order to be eligible for a refund. A "Registration Refund Request" form must be completed and presented to the Division of Finance and Accounting before any refunds will be initiated. The refund will be the amount paid less proper charges per hour for each hour continued.

5. Late Fees

Late registration fees are not refundable.

6. Refund Monies Used to Clear University Debts

Deductions from authorized refunds will be made for unpaid accounts due the University.

Check Cashing Service

The University offers check cashing services under the following conditions:

1. The University will accept personal checks for accounts due to the University. Each student is urged to make his own financial arrangements through his choice of commercial banks.
2. The University Bookstore will cash personal checks not exceeding \$50.00
3. A service charge of 25 cents is made for each check cashed.
4. Responsibility for the check rests with the final endorser.
5. The University will not cash three-party checks.
6. All checks returned by the bank must be cleared within 5 days from the date of notification to the student. Failure to comply may result in cancellation of the student's registration. There is a \$10.00 charge for each returned check.

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 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 Aids

The University of South Florida has an established comprehensive Financial Aid Program that assists qualified U.S. students with their education expenses. Financial assistance is granted on the basis of financial need, academic promise, and character. Generally speaking, academic merit, combined with financial need, determines whether aid is given, and the financial need determines the amount.

Financial assistance includes scholarships and/or grants, long-term loans, and on-campus employment. Students with a 3.0 or above grade point average may apply for scholarships as well as other types of assistance, while students with a grade point average below 3.0 will be considered for assistance other than scholarships.

Short-term, or emergency loans, are also available to help students in the event of a temporary unexpected short-term requirements for educational purposes.

In order to be considered for financial aid, the student must complete

a USF Financial Aid Application, and file a Financial Aid Form (FAF) with the College Scholarship Service. These forms are available at the Office of Financial Aids. Priority will be given to students who are registered full time, i.e., 12 or more hours as an undergraduate and 8 or more hours as a graduate. To have financial aid renewed or extended, the undergraduate student must complete at least 24 new semester hours (36 quarter hours) each academic year with a 2.0 or above, for an average of 12 new hours each semester.

The deadline for applying for scholarships is February 1 for the academic year beginning the following August, and priority will be given to those students who apply for other types of assistance prior to February 1. In awarding financial assistance, no student is discriminated against because of race, religion, creed, age, sex, color, national origin, handicap, or marital status.

Vehicle Regulations and Fees

Motor Vehicles

Students may use properly registered motor vehicles on campus. Parking facilities are provided for resident and commuter students. All motor vehicles and bicycles used on campus must be registered with the division of Public Safety. This applies to full-time or part-time, day or evening students. Each motor vehicle registrant must present a vehicle registration certificate indicating proof of whom owns the vehicle. A booklet entitled "USF Traffic and Parking Regulations" will be issued to each student on registering a motor vehicle. Registration fees (unless changed by State statute) for three or four-wheeled motor vehicles will be \$25.00 for an academic year.

Yearly fees for students registering after the first semester will be adjusted proportionally. Students may park in remote areas for a lesser fee. All decals expire on 30 August of the academic year.

Motorcycles

The fee for motorcycles and mopeds will be \$6.00 per year no matter what time of year they are registered.

Bicycles

The fee for bicycles is \$1.00. Bicycles need only be registered once. The decal issued for bicycles is valid for four years. A booklet entitled "USF Bicycle Traffic and Parking Regulations" will be issued to each student registering a bicycle.

Handicapped

Students with permanent disabilities which impede walking may register vehicles without charge, and receive a specially assigned parking space.

Evening Students

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

Special Services

Veterans Administration 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 the Office of Veterans Affairs (refer to page 28 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 6 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, Cooperative Education program, dual 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 their benefits.* Additionally, VA benefits will be terminated for students who are dismissed for academic or disciplinary reasons (refer to pages 24, 31, and 38) 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.

Social Security Benefits

Fulltime students between the ages of 18 and 22 who are eligible for Social Security benefits should notify their local Social Security office to request enrollment certification through the Tampa Social Security Office. To be considered full-time at USF, students must enroll for a minimum of 12 semester hours each semester except for the summer term. Contact certifications area in the Office of Records and Registration for specific information concerning spring and summer Terms. It is the student's responsibility to notify the Social Security Administration when he/she ceases to be enrolled full-time.

Railroad Retirement Annuity Award

The University maintains records on students receiving Railroad Retirement annuity Award benefits and notifies the Board when a student ceases to be enrolled full-time. A student ceases to be enrolled full-time when he/she is enrolled for less than 12 hours as an undergraduate and 8 hours as a graduate.

To initiate benefits, students should contact the Railroad Retirement Board.

Bookstores

Textbook Center

Textbooks and some Reference books are located in the Textbook Center on West Holly Drive, adjacent to the Central Receiving Building. Every attempt is made to have all required and recommended texts available the first day of registration.

USF Bookstore and Campus Shop

The USF Bookstore and Campus Shop located in the University Center, serves the University community by providing numerous goods and services.

The Art and Engineering Department contains all course supplies of art, engineering, and science classes, as well as many hobby and general purpose items. Oil or water base paint, brushes, art paper, electronic calculators, graph paper, drafting supplies, dissecting kits, and lab notebooks are among the many items in this department.

The Supply Department stocks all the basic school supplies and course required supplies necessary to fulfill course needs—notebooks, notebook paper, pens, pencils, etc.

The Bull Shop features collegiate clothing, imprinted mugs, gifts, and novelty items.

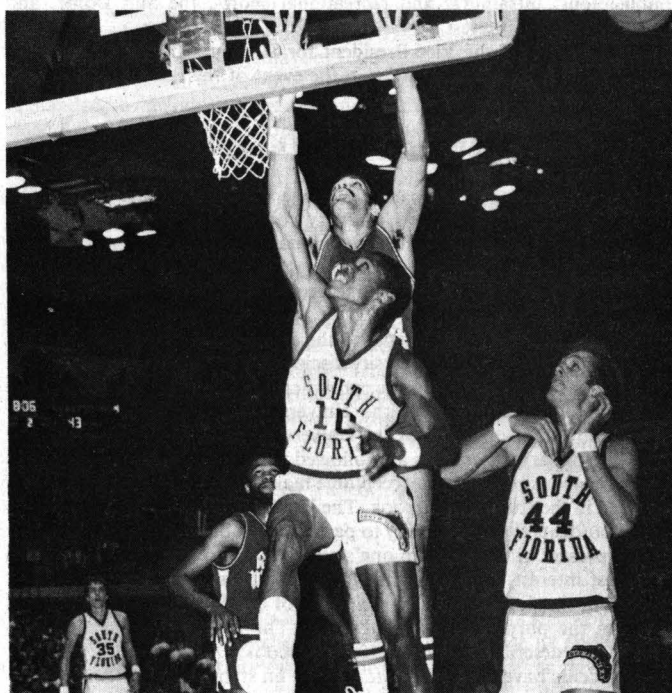
The Customer Service Department stocks a large assortment of items, which includes candy, cigarettes, tobacco products, health and beauty aids. This department provides many helpful services—film developing, college ring order service, fresh flower gift service, magazine subscriptions at student rates, etc.

The Social Expression Department contains a complete selection of traditional and contemporary greeting cards and stationery.

The General Book Department is located in the basement of the Bookstore and features approximately 13,000 different titles, including the very latest in fiction, non-fiction, reference, study aids, and children's books. A copy center and check-cashing facilities are also located in this area.

Check Cashing

The Bookstore provides a check cashing and money order facility for students, staff, and faculty. Cash limit is \$50.00. Students current fee card and picture ID or current staff card must be presented for identification.





STUDENT SERVICES AND STUDENT AFFAIRS

The University of South Florida is committed to the concept of total student development—intellectual, social, physical, and moral. The curricular, co-curricular, and extra curricular 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 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. 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.

Office of Students 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 offers services to students to help them cope more effectively with the many facets of college life which can affect students' academic work: financial aids, 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 cooperates 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 activities, student government, student publications, intramural and recreational sports, 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 tries to maintain high standards of academic performance, the members of the University community try to 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 interest 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 per-

sonal appearance. The University does not have a formal dress code but campus attire is expected to be appropriate for the activities 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, 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. Others areas, such as, academic grievances, minority problems, health and accident insurance, refrigerator rental 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. 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 given by a member of the staff of the Office of Student Affairs, within the week if possible.

St. Petersburg and Sarasota Campuses

Student Affairs offices are also maintained at the St. Petersburg and Sarasota campuses. For information about the services and programs provided for these students, see page 10.

Financial Aids

The student financial aids program at the University of South Florida is a part of the Student Affairs program. For detailed information about financial aids see page 22.

Student Health Service

Comprehensive health care is provided through the University Student Health Service for all students who have paid the Health Fee. Students taking six hours or more per semester on the Tampa Campus are required to pay a Health Fee. All other USF students are eligible to pay the Health Fee on a voluntary basis.

The Health Center is located on the fourth floor of the University Center Building.

A walk-in clinic is maintained for outpatient treatment from 7 a.m. to 11 p.m., Monday through Friday. Medical laboratory hours are from 8 a.m. to 4 p.m. Pharmacy hours are from 10 a.m. to 6 p.m.

International Students

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 the students, faculty and staff to cultural and national differences in outlook, experience and ideas.

The Office of the International Student Adviser provides for the special needs of international students by assisting their integration into the University community. This office aids the international students in meeting the requirements of the University, Department of Immigration and Naturalization Service, and other agencies. Orientation and intercultural programming are services provided by the International Student Adviser.

Disabled Students

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.

Additional services may be obtained through the Special Services Program and/or the Coordinator of Handicap Services. Services include readers, notetakers, interpreters and tutors. Aids include Braille dictionaries and typewriters, tapes and tape recorders, Visual Tek, telecommunication devices, talking calculators, etc. Students with a disabling condition who need these services should contact the Coordinator of Handicap Services. These requests should be made prior to registration if at all possible. Further information may be obtained by writing the Coordinator of Handicap Services at the University of South Florida, LIB-620, Tampa, Florida 33620, or by calling 974-4301.

Housing

The residence hall program at USF is an integral part of the total educational experience at the University of South Florida. It is within this residential environment of the campus that students experience identity with the university community, finding on-going opportunities for intellectual, social, recreational, and vocational growth. Within the functional, pleasant surroundings of the residence halls professional staff members are available to foster academic and personal adjustment and to facilitate interpersonal communications as students from all over the country establish friendships and share in cultural exchange.

University residence hall space is limited, but every regularly enrolled student is eligible to apply.

Residence Halls

The twelve halls within the Division of Housing and Food Service are clustered around two centers of community activity—the Argos and Andros Complexes. Each of the complexes provides a core of services for its residents including a central communications desk, mail delivery, TV and study lounges, and complete cafeteria and snack facilities. This arrangement has encouraged resident interaction while bringing the residence hall staff close to the needs of students. Although both Argos and Andros Complexes provide the same basic services, they represent different options in campus living.

The Argos Complex of residence halls—Alpha, Beta, and Gamma—represents traditional hall living. This arrangement provides attractive double-room accommodations designed for both studying and sleeping. The 40-50 residents occupying a living unit share common bath facilities which are attended daily by the hall's housekeeping staff. Centrally-located Lobby areas, laundry rooms, and snack machines further describe the housing arrangements for women of Gamma and Alpha (East Wing) and the men of Beta and Alpha (West Wing).

The Andros Complex, consisting of the nine small halls—Delta, Epsilon, Kappa, and Mu for women and Iota, Lambda, Theta, Eta, and Zeta for men—is characterized by the suite arrangements. Suites are designed to accommodate eight residents—two sharing a bedroom, four sharing a study area, and eight sharing bath facilities. With five suites on each living unit, the 40 residents find that the small kitchenette/lounge and laundry room become centers of floor activity.

Whether residing in Andros or Argos Complex, residents will enjoy the comfort, freedom and peace of mind that comes from living in fully air-conditioned halls with 24-hour security control. In addition, most rooms are carpeted throughout and all rooms are furnished to provide a bed, desk, chair, dresser, closet, and bookshelf for each resident. Out-

side, two swimming pools and numerous tennis, handball, racquetball, and basketball courts await leisure-time recreation fans. And, of course, there are always opportunities for residents to become involved in the ongoing area of residence hall programming.

Off-Campus Housing

The Student Government office located in the University Center maintains a list of off-campus housing. Listings are accepted only from householders and landlords who do not discriminate because of race, color, or national origin. Rental arrangements may best be made after personal inspection of facilities and conference with the householder before the University opens. Fall semester arrangements may be made during the summer.

Food Service

A variety of food service facilities are provided at USF, including residence hall cafeterias, satellite snack bars throughout the campus, convenience store, complete vending services, and contractor endeavors in every way possible to meet the general and specific food service needs of the USF community.

University Center

The University Center seeks to facilitate another dimension of the educational experience by providing an environment for informal association outside the classroom. It provides facilities, services, and programs to enhance the social, cultural, and recreational life of the University. The information service desk serves as the coordinating center for the numerous and varied services and activities of the University Center and out-of-class student life. It is here that student organizations schedule facilities and request services for their various activities. The master schedule of all student activities is maintained at this location.

Many of the University center facilities and services provide for personal and social needs. The University Center has some fourteen meeting and conference rooms to be used by student organizations, and provides facilities for the various services offered through the University Center Activities Office, composed of the games area, craft shop, photography lab, student organizations office, and the program office. For social activities, a ballroom is also located on the second floor. The first floor of the University Center has four social lounges for relaxation, as well as a gallery lounge to exhibit student art work. Other facilities on this floor are a cafeteria and coffee shop, a campus store, and student government offices. Student health services occupy the fourth floor of the University center.

The basement level of the University Center is the recreational area. To be found here are TV lounge, billiard tables, table tennis tables, table soccer games as well as a game room equipped with cards, and a variety of table games, as well as coin-operated skill games. The crafts area has been expanded to include a large ceramics facility as well as leather work, macrame, and numerous other small crafts. Photography labs are also located in this area of the University Center.

Food Services, the Book Store, and Health Services operations are coordinated through their respective University administrative areas, while the other facilities and services are coordinated by the University Center Director's office.

The University Center not only includes Student Organizations but also a Program Office. The Office of Student Organizations provides services (mail, duplicating, advising, to some 250 registered Student Organizations. Advising to the fraternities and sororities, minority organizations and mature students (25 or older) are also coordinated through this office. The Program Office provides two professional advisors who are available to consult with student organizations regarding their programs and activities. The advising office for international students is also located in this area. This office also provides social support services to USF's disabled student population.

University Police

The University of South Florida Police Department, located at the intersection of Maple and Fletcher, provides the full range of public safety services to the community twenty-four hours a day, seven days a week. All University Police Officers are commissioned Law Enforcement Of-

ficers of the State of Florida. The telephone number for on campus emergencies (personal injuries, fires, crimes in progress) is 2911. The telephone number for on campus non-emergencies and business is 2628.

Clubs and Other Organizations

Students have formed clubs, organizations, and councils in almost every field of interest. New groups are being formed and will continue to develop. Groups presently organized cover most frequently desired kinds of activities.

Professional staff members are available to assist individuals in forming new organizations and also to assist in the advising of currently registered groups. Since the creation and dissolution of organizations is a constant process, the list of active student organizations is always subject to change. For complete lists and current information regarding all student organizations, please contact the Office of Student Organizations.

Dance, Music, and Drama Clubs

The excellent program 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

Many of today's outstanding visual and performing artists are brought to the University of South Florida campus each year. The Artist Series provides unusual opportunities for experiencing the finest professional talents in Music, Dance, and Theatre. The Exhibitions Program provides unusual opportunities to view many varied and significant works of art annually in the University's three galleries. 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.

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. The events are presented both during the day and in the evening. Many are free of charge.

Most events are open to the general public. The University publishes a Calendar of Events which is available upon request to the Director of Fine Arts Events, College of Fine Arts, USF.

Fraternities and Sororities

There are currently 16 national fraternities, 9 national sororities and 2 colonies functioning on the Tampa Campus. They carry out a program of social, educational, service, and recreational activities for their members. Membership is open to any student, by invitation. Their programs are coordinated through the Interfraternity Council, Panhellenic Council and Black Panhellenic Council with the advice of faculty and staff members.

The sororities are Alpha Delta Pi, Alpha Kappa Alpha, Chi Omega, Delta Delta Delta, Delta Gamma, Delta Sigma Theta, Kappa Delta, Sigma Gamma Rho, and Zeta Phi Beta.

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

The two colonies are Chi Phi Fraternity and Kappa Alpha Fraternity.

Religious Organizations

The University has encouraged student religious organizations to develop associations and centers. Denominations have built centers in a reserved area on campus. The Episcopal Center was dedicated in the fall of 1962 and the Baptist Center in the spring of 1964. The University Chapel Fellowship followed in 1966. (This center is an ecumenical campus

ministry of the following denominations: United Methodist, Presbyterian and the United Church of Christ.) The Roman Catholic Center joined the others in the fall of 1967, in an adjacent location.

Student religious organizations active on campus: Bahai Club, Baptist Campus Ministry, Campus Advance, Campus Bible Fellowship, Campus Crusade for Christ, Canterbury Club, Catholic Student Center, Chabad House, Christian Science Organization, Fellowship of Christian Athletes, Hillel Club, Inter-varsity Christian Fellowship, Latter Day Saints Student Association, Navigators, Transdenominational Prayer Group, and the University Chapel Fellowship (methodist, Presbyterian, and the United Church of Christ).

Service and Honorary

There are many organizations devoted to serving the University and the Tampa Bay Area. These service organizations are: Alpha Phi Omega, C.A.U.S.E., Circle K, Diamondnet Service Club, NCAA Volunteers for Youth, Paraprofessional Counseling, Rehabilitation Counseling Association, Tape Bank Service, and Women's Peer Counseling Center.

Membership to Honorary Organizations is usually by invitation. Honorary Organizations at USF are: Alpha Epsilon Delta (Pre-Med), Alpha Epsilon Rho (Broadcasting), Alpha Phi Sigma (Criminal Justice), Alpha Pi Mu (Data Processing), Beta Alpha Psi (Accounting), Civil Engineering Honor Society, Kappa Delta Pi (Education), Kappa Tau Alpha (Mass Communications), Mortar Board, Omicron Delta Kappa, Phi Alpha Theta (History), Phi Kappa Phi, Phi Sigma (Biology), Pi Gamma Nu (Social Sciences), Pi Mu Epsilon (Math), Pi Sigma Alpha (Political Science), Psi Chi (Psychology), Sigma Alpha Iota (Music), Sigma Theta Tau (Nursing) and Tau Beta Pi (Engineering).

Professional Fraternities

Many profession-oriented groups exist at USF. These include: Delta Sigma Pi, Phi Beta Lambda, Phi Chi Theta, Phi Mu Alpha, Pi Sigma Epsilon and Sigma Xi.

Special Interest Organizations

Students have organized and continued to organize clubs and organizations covering a broad range of interest. Included are those oriented to academic majors, departments and colleges; groups providing programs, information, and governmental experience, and associations of students with a common interest in specific recreational, technical, ideological, or other areas of special concern. Complete information is available at the Office of Student Organizations, CTR 217.

Recreational Sports

The University of South Florida provides a variety of physical and recreational activities designed to meet the needs and interests of students. Believing that a sound and complete education includes a proper balance of work and study with physical activity, the University program includes Intramural Sports competition, Sports Clubs, and other recreational activities, in addition to basic instructional programs in physical education.

The activities represent a broad selection of sports ranging from those of a highly competitive nature to those of a non-competitive type and include individual, dual, team, and aquatic sports. Through participation, students, faculty, and staff are provided an opportunity to increase physical fitness, augment leisure time skills, and develop a wholesome attitude toward physical activity.

The Intramural Sports Program emphasizes activities that are especially suited to the Florida climate. Competition is scheduled in such individual sports as swimming, tennis, track, golf, cross country, bowling, racquetball, and wrestling, as well as the team sports of soccer, touch football, basketball, volleyball, and softball. Competition is scheduled through fraternal societies, residence halls, and independent divisions. Team awards are presented.

The Sports Club program includes groups of students, faculty, and staff who have a special interest in a particular sports activity. They are organized for the purpose of increasing skills and augmenting knowledge through a continuing in-service training and competitive program. Each sports club is assisted by the coordinator of sports clubs in the selection of a faculty advisor, and the initial organization of the club is governed by University regulations. Students with special sports abilities or interests

are encouraged to make them known so that when sufficient need and interest warrant, new sports clubs may be formed. Present clubs include: aikido, bicycle, bowling, fencing, frisbee, karate, lacrosse, rugby, sailing, soccer, sports car, scuba, parachute, water skiing, weight lifting and yoga.

The Recreational Sports Office also has the responsibility of general recreation for the University. This responsibility involves programming and supervision of recreational areas such as: gymnasium, swimming pools, USF Riverfront, tennis courts, handball/racquetball courts, and playing fields. Scheduled use of these areas, other than University classes, must be cleared through the Recreational Sports Office.

Intercollegiate Athletics

The University of South Florida fields intercollegiate teams in both men's and women's sports. The University is a member of the National Collegiate Athletic Association and competes in the University Division I level in men's baseball, basketball, cross country, golf, soccer, swimming, and tennis. The women compete in basketball, golf, and tennis and Division II in softball, volleyball and swimming. Schedules are arranged to include quality competition which reflect the high standards of the University.

The Office of Admissions

The Office of Admissions in Tampa administers the application and admissions processes for undergraduate and graduate students and assists prospective freshmen and graduate students, as well as mature and minority students, in securing information about the University of South Florida and its programs. The Office serves as the initial point of contact for these prospective students who are unfamiliar with the University.

sity, and includes contests with regionally and nationally ranked teams. USF became a charter member of the new Sun Belt Conference in 1976.

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 five-column tabloid campus newspaper the *Oracle*, is published five times weekly, Monday through Friday, and three times weekly, Monday, Wednesday and Friday during the summer. Containing 16 to 20 pages in each issue, it provides professional experience for those students interested in journalism. Any student interested in working on the newspaper in any capacity is not only encouraged but urged to participate.

Omnibus, a magazine, is published as a supplement to the *Oracle*. *Omnibus* is a tabloid magazine containing general interest features and photos, prose, poetry, and graphics produced by students.

Interested students are invited to apply for staff positions on either campus publication as well as make contributions to the magazine.

Pre-admission advising is available by appointment.

In conjunction with other University offices, Admissions administers the Early Admission, Dual Enrollment, Scholarships for Excellence, USF PREVIEW, Honors at Entrance, and New Student Orientation, including FOCUS: YOU AND USF, programs.

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 skill. Special services are provided by the State Division of Vocational Rehabilitation and that agency maintains an office located in the Counseling Center. These services are designed to assist students in achieving efficient learning habits and developing a satisfying participation in campus life.

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

The Clinical Psychology 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.

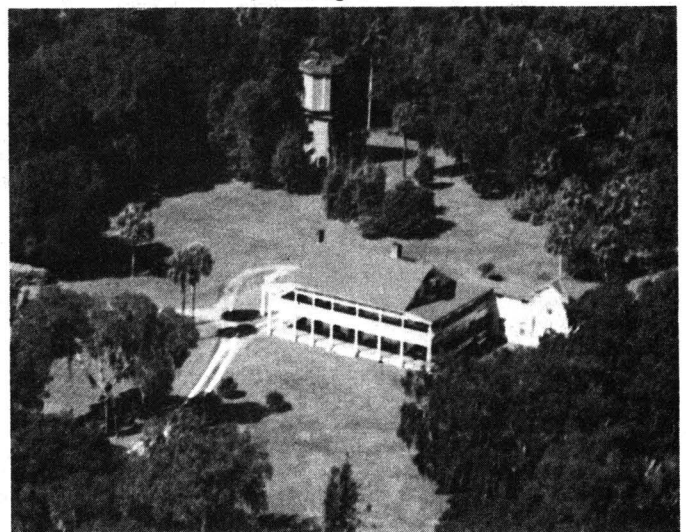
The Counseling Center Outreach Program makes available workshops and structured groups in a variety of career and personal growth areas which are of concern to University students. Although most

of these programs are regularly scheduled, they are often organized at the request of special 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 and "Effective Living" column are published monthly in the *Oracle*, the campus newspaper.

Currently, there are three paraprofessional programs functioning at the Counseling Center. These programs receive professional training and supervision and are staffed by volunteer students under the leadership of trained and experienced graduate and undergraduate students.

Application for any of these services may be made by all USF students by presenting themselves at the Counseling Center and requesting assistance. Center staff limitations will restrict servicing of new applications to emergencies during peak periods.

Chinsegut Hill, USF's conference center



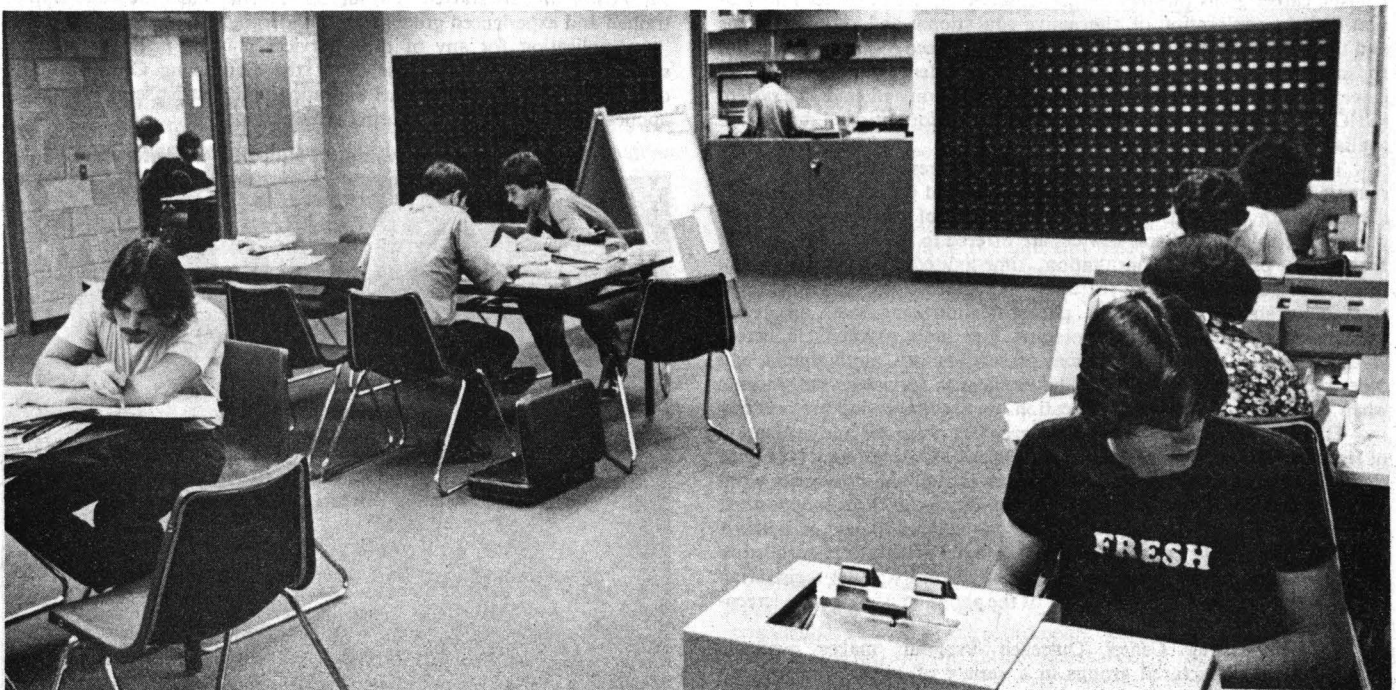
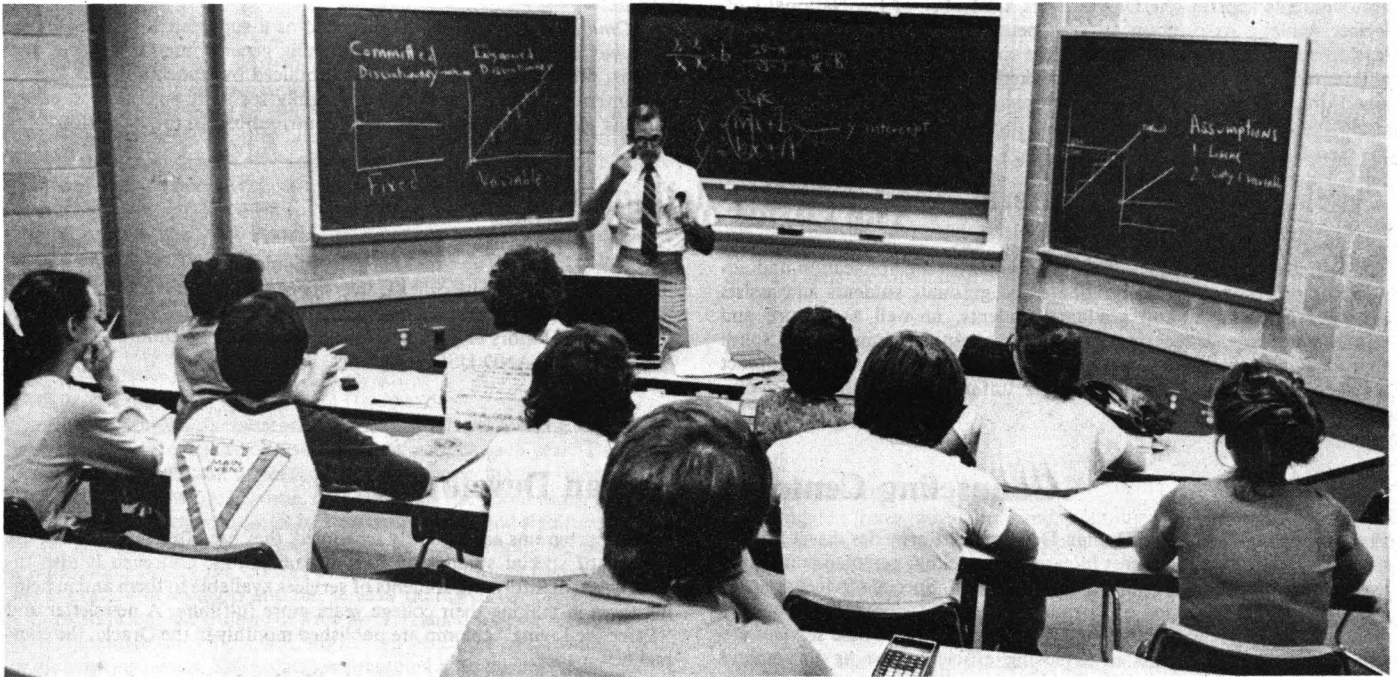
Offices of Veterans Affairs

Offices of Veterans Affairs are maintained on the Tampa, St. Petersburg, Sarasota, and Fort Myers campuses. These offices direct the University's PAVE (Programs to Advance Veterans Education) program and all veterans and service members—and their dependents—can utilize the services of this program. Highlights of the PAVE program include veterans pre-admissions and pre-registration advising, and veterans benefits advising. These offices receive requests for VA education benefits which are processed through the VA Certification section of the Registrar's Office to the Veterans Administration.

VA students may be eligible for the VA Student Deferment of registration and tuition fees or for the VA advance check. Veterans can also qualify to work on-campus in the VA Work-Study program assisting the VA and USF to provide services to veterans.

The VA Tutorial Program affords VA students the opportunity for tutoring in needed subject areas. Under the GI Bill, students can receive an allowance from the VA to pay for a tutor. There is the opportunity for developmental course-work and GED certification through cooperation efforts with local community colleges and adult education programs. Active referral is made for financial assistance, student job placement, student housing, personal and family counseling, career planning, academic advising, military service schooling credit, and discharge review.

As a Serviceman's Opportunity College, USF encourages active duty personnel to participate in PAVE. For information on Project Ahead, degree completion, and tuition assistance, students should first check with their local military education services office.



ACADEMIC POLICIES AND PROCEDURES, PROGRAMS AND SERVICES



The Office of Records & Registration maintains the official academic records for all students and course registrations for currently enrolled students. Students are encouraged to contact the Office of Records and Registration 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 in so far as they affect him/her.

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. Ad-

visers, 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 pages 4-5 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

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

Prospective students may obtain general University information concerning admissions, fees and degree programs by requesting either the Undergraduate or Graduate brochure from the Admissions Office.

Academic Load

The *Maximum load* of an undergraduate student is 18 hours, unless approval is received from the Dean of the Student's college or an authorized representative. Students classified as Undecided must receive approval from the Dean of Undergraduate Studies. The standard load for an undergraduate student to graduate within 4 years is 15 hours during a regular Semester. The minimum load for a student to be considered academically full-time is 12 hours during the Fall and Spring Semesters. Contact Office of Records and Registration for full-time equivalents for Summer Sessions. For academic load for Graduate students see Graduate School, page 48.

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 of years, or even less frequently if there is little demand.

Course Attendance at First Class Meeting

Introduction (Policy, Purpose and Intent)

So that the University of South Florida may effectively utilize classroom space and to ensure all students the opportunity to enroll in classes where demand exceeds availability of seats, the following policy has been put into effect.

Statement of Policy

Students *are obligated to attend* the first class meeting of all classes for which they have registered in order to ensure their enrollment in those classes. The consequence of non-attendance is that the student is subject to having his/her space assigned to another student, especially in those classes where demand exceeds availability of seats.

The following categories of students have the responsibility to drop the course(s) by the end of the drop/add period in order to avoid fee liability.

1. Students who do not attend the first class meeting and subsequent classes.
2. Students who do not attend the first class meeting but do attend subsequent ones but are notified by the instructor that their space is no longer available.

If the student is in doubt regarding his/her status in class, it is his/her responsibility to communicate with the instructor to see whether there is still space available in the class.

Students having extenuating circumstances beyond their control and who are unable to attend the first class meeting must notify the instructor or department prior to the first meeting to request waiver of the attendance requirement.

The above process requires faculty to take attendance at all class meetings during the first week of class and to report any absences to their chairperson or designated office. This is to ensure that students who must drop the course because of non-attendance at the first class meeting are appropriately informed should they attend a subsequent class meeting.

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 records and a full refund of fees is due for course(s) dropped within these periods.

A student may also drop a course(s) between the second and ninth week of the semester. (Except for Summer Sessions—see class schedule.) However, registration fees must be paid for the course(s) and the academic record will reflect a "W" grade for the dropped course(s). *Courses dropped after the ninth week deadline (see Academic Calendar for date) will result in an automatic "F" grade.*

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 regular or late registration periods. (No audit registrations are processed during the early registration period.) Fees for audit are the same as for full enrollment for credit. See University Class Schedule for detailed instructions and dates.

Cancellation Before First Class Day

Student may cancel their registration by notifying the Office of Records & Registration 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

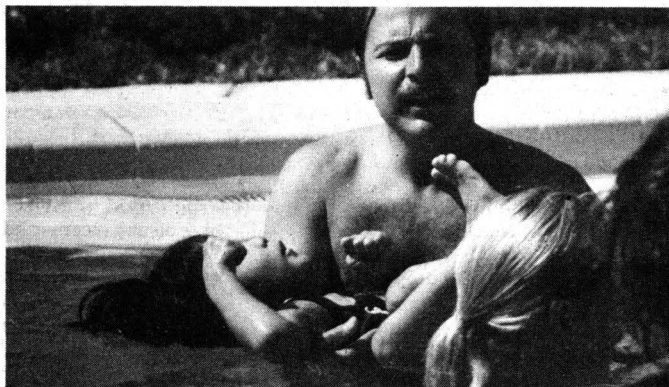
A student may withdraw from the University without academic penalty for the first nine weeks of any term (except for Summer Sessions—see class schedule), by submitting a completed Withdrawal Form to the Office of Records & Registration. For withdrawals submitted during the first week of the term, no entry is made on the academic record. All subsequent withdrawals are posted to the academic record with "W" grades assigned to the courses. After the end of the ninth week of the term, a grade of "F" will automatically be assigned for all course work from which a student withdraws.

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.

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, not eligible 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," page 33 for information on petitioning.



Transcript Information

Transcripts of a student's USF academic record may be requested by the student through the Office of Records & Registration. 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 Records & Registration. Include in the request the full name, social security number, and date of birth, and indicate names and address 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 (Sophomore Test)

Beginning Fall Semester, 1982, all sophomores shall be required to take the Florida Test of College Level Communication and Computation Skills. These tests will be administered Fall Term (October 16, 1982) and Spring Term (March 15, 1983) to sophomores who expect to finish their sophomore year (60 semester hours) at the end of the appropriate term.

Communication is a process that involves receiving and assimilating ideas and information through reading and listening, and generating and transmitting ideas and information through writing and speaking. Students must demonstrate reading, listening, writing, and speaking skills* in standard American English.

Computation is a process by which entities, magnitudes, order relations, and symbolic systems are identified and applied. Competence in computations requires (1) mastery of algorithmic processes; (2) acquisition of concepts relative to objects, magnitudes, and relations; (3) ability to generalize and to select applicable generalizations for use; (4) proficiency in problem solving. Students must demonstrate these competencies in the areas of arithmetic, geometry and measurement, algebra statistics (including probability), logical reasoning, and computing technology.*

* with necessary adaptations for the handicapped.

Grading System

A student's measure of academic achievement is recorded on his 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
- I—Incomplete
- IF—Incomplete grade changed to Failure
- IU—Incomplete grade changed to Unsatisfactory
- N—Audit
- R—Course Repeated
- S—Satisfactory
- U—Unsatisfactory
- W—Withdrawal from course without penalty
- Z—Indicates continuing registration in Thesis/Dissertation courses.

Grade Point Average

The University has a four-point system of grading used in computing grade point averages (A = 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. Grades of S, U, I, IU, Z, and grades which are followed by an "R" (indicating repeat) are subtracted from the total hours attempted.

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.

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. 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 to 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 grades, 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.

"I" Grade Policy

An "I" grade 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 ever comes first. "I" grades not removed by the end of the time limit will be changed to "IF" or "IU", whichever is appropriate. Whether or not the student is in residence, any change to "IF" grades will be calculated in the accumulative GPA and, if applicable, the student will be placed on the 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.

"Z" Grade

The "Z" grade shall be used to indicate continuing registration in graduate Thesis/Dissertation courses, where the final grade to be assigned will be that of the completed sequence. Upon satisfactory completion of the Thesis/Dissertation course, the last "Z" grade shall be changed to "S". The "Z" grade is not computed in the 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, page 37). Normally, grade forgiveness may only be applied to a specific course that a student chooses to repeat. Courses which are repeated and the repeat grade is "F" will have both grades calculated into the GPA. 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 have been previously approved by the college dean and is on file in the Office of Records and Registration.

Any undergraduate student who wishes to implement grade forgiveness must:

1. Complete a "Grade Forgiveness Request Form" (available in the Office of Records and Registration) 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 "R" to indicate that the course has subsequently been repeated and the original grade is not computed in the grade point average.
 - 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 1000-5000 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.

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

Academic Probation and Academic Dismissal for Undergraduate Students

The first time an undergraduate or non-degree seeking student falls below an accumulative 2.0 grade point average (GPA) (see notes below) after any term, he/she will be placed on Academic Probation. If the cumulative GPA is not raised to 2.0 or higher at the end of the second semester, that student will be automatically dismissed and will remain out for one semester. 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 when returning that student must have the approval of an academic program representative, college coordinator of advising or their designee. Upon returning to school, a student has two terms to get the accumulative GPA up to 2.0 and 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.

- NOTE:**
1. Students admitted in probationary status must accumulate 30 semester credits and maintain a minimum cumulative 2.0 GPA for each term enrolled with 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 being permanently dismissed from the University.
 2. Any degree-seeking undergraduate student whose cumulative GPA falls below 1.0 after attempting an accumulated twelve or more USF Semester hours will be dismissed for academic reasons (AD) at the end of the semester in which it occurs.

Students are strongly encouraged to confer with their academic advisers to explore ways of improving academic performance.

Any student who withdraws after the fifth day of classes while on Final 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 Final 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 during 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. An explanation of any required procedures to be followed will be enclosed with the grade report.

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 or falls below a 2.0 GPA from the University of South Florida and subsequently achieves an AA from a Community College (or a four-year institution), 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. 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 has earned credit beyond 60 hours 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.

Graduate students should refer to the section on Graduate School for discussion of minimum academic standards.

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. Such students will not be permitted further enrollment in the University until they are admitted to another college or to the University Studies if appropriate. The college dean is responsible for implementing standards of academic progress and for notifying students of their probationary or disenrollment status.

Undergraduate students who have been disenrolled from a college and which to continue at USF should follow these steps:

Students with fewer than 60 attempted hours may apply to be admitted to a different college or to University Studies.

Students who have attempted 60 hours but fewer than 90 hours may apply to be admitted to a college or petition the Academic Regulations Committee for admission to University Studies.

Students with 90 hours or more may apply to be admitted to a different college.

Only those students admitted will be allowed to continue.

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.

Special/Unclassified	Non-degree seeking students
1 Freshman	0 through 29 semester hours passed
2 Sophomore	30 through 59 semester hours passed
3 Junior	60 through 89 semester hours passed
4 Senior	90 or more semester hours passed, however no baccalaureate degree earned here or elsewhere

- 5 Baccalaureate degree holder working on a second Undergraduate program or degree
- 6 Graduate student admitted to Master's Degree Program
- 7 Graduate student admitted to Specialist Degree Program
- 8 Graduate student admitted to a Doctoral Degree Program
- 9 Professional Program (M.D.) or Post-Doctoral Status

Admission to a College

All new lower level students must be initially advised by Academic Services. After that time, a student may declare a major and move to a degree granting college. (Each college has specified in this catalog its requirements for admission.)

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.

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.

Change of Graduate Program: Graduate students desiring to change their program must complete an "Application for Graduate Change of Program" available in the Office of Records and Registration. Students will be notified by the Office of Records and Registration of the college's decision concerning their acceptance into the new program.

Change of Graduate Degree: Graduate students desirous of changing from one degree level to another, i.e., M.A. to Ph.D., must make application in the Office of Admissions. Please refer to page 12 for further details.

Pending Status

A student may be placed on Pending by failing to meet obligations to the University. When a student is on Pending, he 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 Pending should determine from the Office of Records and Registration which office placed him/her in this status and clear the pending 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 Records & Registration.

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 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 grades.

The University Honors Program

The University Honors Program is designed to challenge students to develop their intellectual abilities to the utmost through a program of study featuring small seminars, individualized instruction by outstanding faculty, and individual research.

Admission into the Program is determined by the University Honors Program Committee. In order to complete the University Honors Program, the student must also be accepted into and complete work for his/her departmental major program.

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, of 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 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 Records & Registration. Completed forms should be returned to the Office of Records & Registration by 5:00 p.m., Friday, to be reviewed at the next week's meeting. Student's will receive notification of the committee's action the following week.

If the student wishes a personal interview with the committee he/she should make arrangements with the representative from his/her college prior to submitting his petition.

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.

Student Violations or Offenses Involving Alleged Academic Dishonesty

Violations of academic codes, cheating and plagiarism will be handled initially by the instructor who will discuss the incident with the student. If the instructor decides that further action is warranted he/she will inform the student of the action that he/she is recommending to his/her department chairperson and the dean.

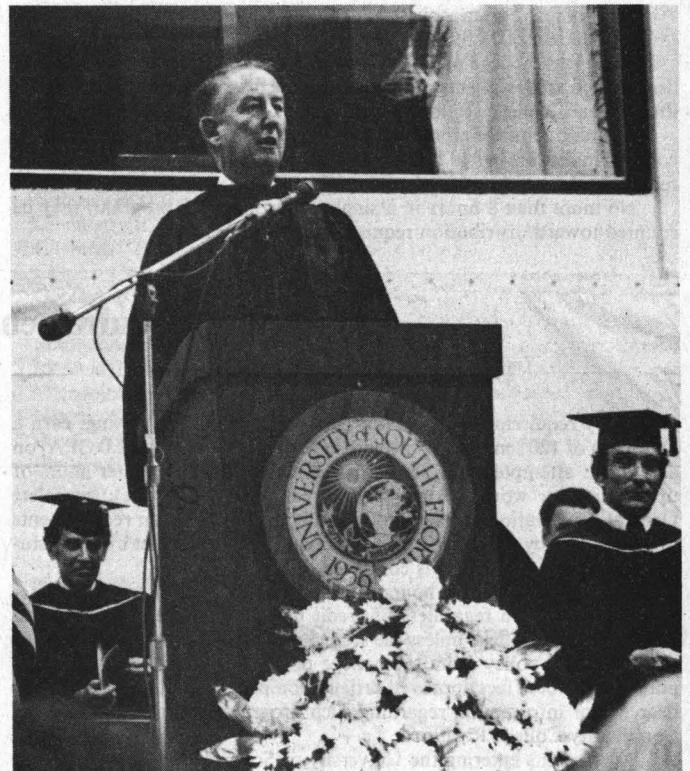
The instructor will file a confidential statement and recommendation through the department chairperson and with the dean of the college responsible for the course, and will provide the student with a copy of that statement.

The student, if dissatisfied with the instructor's recommendation, may ask for a meeting with the instructor, the department chairperson, and the dean indicating his/her version of the incident.

The final disposition of all cases of academic dishonesty rests with the dean of the college responsible for the course. In reaching a decision, the dean may accept the instructor's recommendation or, if not satisfied after reviewing the statement of the instructor and the student, may request meeting with the student, instructor, and department chairperson individually or jointly. The dean may also appoint a student-faculty committee for advice prior to rendering a decision in the case. The student may also request of the dean that such an advisory panel be formed and if that request is made, the student thereby waives his/her right to a formal hearing as provided in Florida Statutes, Ch. 120.

If the issue remains open at the end of the semester, the instructor is to give the student an "I" grade in the course until all issues are resolved. Once the dean has made a decision on the case, the student's right of appeal is to the Dean of Undergraduate Studies or the Dean of Graduate School.

USF Commencement



General Distribution Requirements

All standard transfer and A.A. degree holders (from in-state or out-of-state accredited institution) will be considered as having met our General Distribution Requirements and 60 semester hours of work will be transferred. 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 0000 or 1101, and ENC 1104).

Area II—Fine Arts and Humanities

Any course offered by American Studies; Art; Classics; Communication (excluding ESL 1383, 1384); Dance; English (excluding ENC 0000, 1101, 1104, REA 0105); *Foreign Languages; Humanities; Liberal Studies; Linguistics, (only SPC 2050, 3010, 3881); Music; Philosophy (excluding PHI 3100); Religious Studies/Ancient Studies; Theatre.

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, GEB 2111, 3121; Logic, PHI 3100; Social Science Statistics, STA 3122.

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.

Area V—Social and Behavioral Sciences

Any course offered by the Departments (or Programs) or: Afro-American Studies; Aging Studies; Anthropology; Criminal Justice; Economics; Geography; 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.

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 3063;

*Use of the Library, LIS 2001;

*Honors Program courses: Reading Seminars, IDS 3901, 3902; Seminar, IDS 3931; Independent Study, IDS 4938.

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.

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

†As defined in the Florida Statewide Articulation Agreement.

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

**Major Program.

- Specialization: Those courses required to give the student academic concentration and baccalaureate identification such as Mathematics, Accounting, Psychology, etc.
- Supporting or Related: These courses may be prerequisites to the specialization courses, or they may support specialized courses by giving preparation or breadth to the area of specialization. These courses are often referred to as college or program core courses.
- Program Electives: These are usually a broad band of courses offered by the college offering the major to further enrich the student in the general academic field of the major.

Freshman English Requirement in the Freshman Year

All first-time-in-college students are *required* to take Freshman English in accordance with the following conditions:

- First-time enrolled students (a) who do not intend to take the CLEP Freshman English Test or (b) who have been notified of failing CLEP prior to registration and who do not intend to attempt the examination a second time, must take ENC 1101 the first semester, and ENC 1104 the second semester of their freshman year. If a student fails the first course, he must repeat it the next semester and take the second course in the following semester.
- 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 weeks. During this semester they should not enroll in ENC 1101. If a student either fails or does not attempt the examination during his first nine weeks, he must take ENC 1101 in the following semester. In this case, he will complete the sequence by the first semester of his 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.

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/see page 40) and others may be offered within departments. Interested students should obtain additional information from their advisers or the Office of Evaluation and Testing Services.

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; earn a minimum of 40 semester hours of upper division 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 less 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 less 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 at 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 Competency

Beginning in 1986, any student who graduates with a B.A. degree must have achieved a foreign language competency in one foreign language. For further information, see an advisor.

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.

Candidates at the graduate level should refer to the residency requirements on page 48.

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 parenthesis after each college: the major code, after each major.

College of Arts and Letters: (B.A.)

American Studies (AMS)
Classics (Interdisciplinary Classics) (CLS)
Classics (Latin, or Latin-Greek) (CLS)
Classics and Foreign Language (CLF)
Communication (SPE)
Communication-English (ENS)
Communication-Theatre (STA)
English (ENG)
French (FRE)
German (GER)
Humanities (HUM)
Italian (ITA)
Languages (combination) (FOL)
Liberal Studies (ALS)
Mass Communications (COM)
Philosophy (PHI)
Religious Studies (REL)
Russian (RUS)
Spanish (SPA)

College of Business Administration: (B.A.)

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

College of Education: (B.A.)

Art Education (ARE)
Botany Education (BOE)
Business and Office Education (BTE)
Chemistry Education (CHE)
Classics Education (CLE)
Distributive and Marketing Education (DEC)
Elementary-Early Childhood (EEC)
Elementary Education (EDE)
English Education (ENE)
Exceptional Child Education
Emotional Disturbance (EED)
Mental Retardation (EMR)
Specific Learning Disabilities (ELD)
Foreign Language Education (FLE)
Health Education (HES)
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 (SCE)
Social Science Education (SSE)
Speech Communication-English Education (SED)
Zoology Education (ZOE)

College of Engineering

Chemical Engineering (ECH) (B.S.Ch.E.)
Civil Engineering (ECE) (B.S.C.E.)
Computer Engineering (ECP) (B.S.Cp.E.)
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.)
Mechanical Engineering (EME) (B.S.M.E.)

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

Art (ART)
Dance (DAN)
Music (MUS)
Theatre (TAR)
Theatre (TFA) (B.F.A.)

College of Natural Sciences: (B.A., B.S.)

Biology (BIO)
Botany (BOT)
Chemistry (CHM) (B.A.)
Chemistry (CHS) (B.S.)
Clinical Chemistry (CHC)
Geology (GLY) (B.A.)
Geology (GLS) (B.S.)
Mathematics (MTH)
Medical Technology (MET) (B.S.)
Microbiology (MIC)
Natural Sciences Interdisciplinary (INS)
Physics (PHY) (B.A.)
Physics (PHS) (B.S.)
Zoology (ZOO)

College of Nursing: (B.S.)

Nursing (NUR)

College of Social and Behavioral Sciences: (B.A., B.S.W.)

African and Afro-American Studies (AFA)
Anthropology (ANT)
Criminal Justice (CCJ)
Economics (ECN)

Geography (GPY)
 History (HTY)
 International Studies (INT)
 Political Science (POL)
 Psychology (PSY)
 Social Sciences interdisciplinary (SSI)
 Social Work (SOK) (B.S.W.)
 Sociology (SOC)

External Degree Program: (B.I.S.)

Bachelor of Independent Studies

Academic Minor

In addition to major programs, many departments offer an academic minor that requires approximately one half the upper division 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. No minor requires more than 22 credit hours.
2. A minimum of 8 semester hours of credit used to satisfy the requirements of a minor must be from University of South Florida courses.
3. A student may not receive a major and a minor in the same program option.
4. University of South Florida course work for a minor must have a grade point average of at least 2.0.
5. Only an undergraduate degree seeking student at the University of South Florida is eligible for a minor.
6. 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 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 Letters:

American Studies
 Communication
 English: Literature
 English: Writing
 French
 German
 Greek
 Humanities
 Interdisciplinary Classics
 Italian
 Latin
 Linguistics
 Philosophy
 Religious Studies
 Russian
 Spanish
 Spanish/Portuguese

College of Business Administration:

Economics

College of Fine Arts:

Art
 Dance
 Music
 Theatre

College of Natural Sciences:

Geology
 Mathematics

College of Social and Behavioral Sciences:

African and Afro-American Studies
 Option I
 Option II
 African Studies
 Anthropology
 Geography
 History
 International Studies
 Manual Communications (Communicology)
 Political Science
 Sociology
 Women's Studies

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 or 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 or a combination of one semester and a Summer Session as a degree-seeking student per year at USF, inclusive of receipt of grades for courses, 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 Degree (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 Natural Sciences. (See College of Natural Sciences on page 120).

Application for Graduation

To be considered for graduation, a student must submit an "Application for Degree" to the Office of Records & Registration by the deadline noted in the Academic Calendar for the term in which he/she expects to graduate. The application form is available in the Office of Records & Registration or Undergraduate Studies for A.A. Degrees. (Inquiries regarding approval or denial should be made to the Colleges.)

It is the student's responsibility to clear all "I" grades (incompletes) for 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.
3. No "I" grade in required courses.

Students who are not registered for any courses and apply for graduation or certification of a minor must pay for one hour at the level of graduation.

Honors at Graduation

Any baccalaureate candidate whose overall grade point average for all work attempted at USF on the standard grading scale in a 3.5 or higher shall be considered for honors. In addition, transfer students to be eligible for honors must have a grade point average of 3.5 or higher when combined with all work attempted at other institutions. The forgiveness policy will not be applicable in computing the grade point average for honors.

Candidates with a GPA of 3.5 but below 3.71 shall receive a diploma designation of "cum laude." (With Honor)

Candidates with a GPA of 3.71 but below 3.90 shall receive a diploma designated of "magna cum laude." (With Higher Honor)

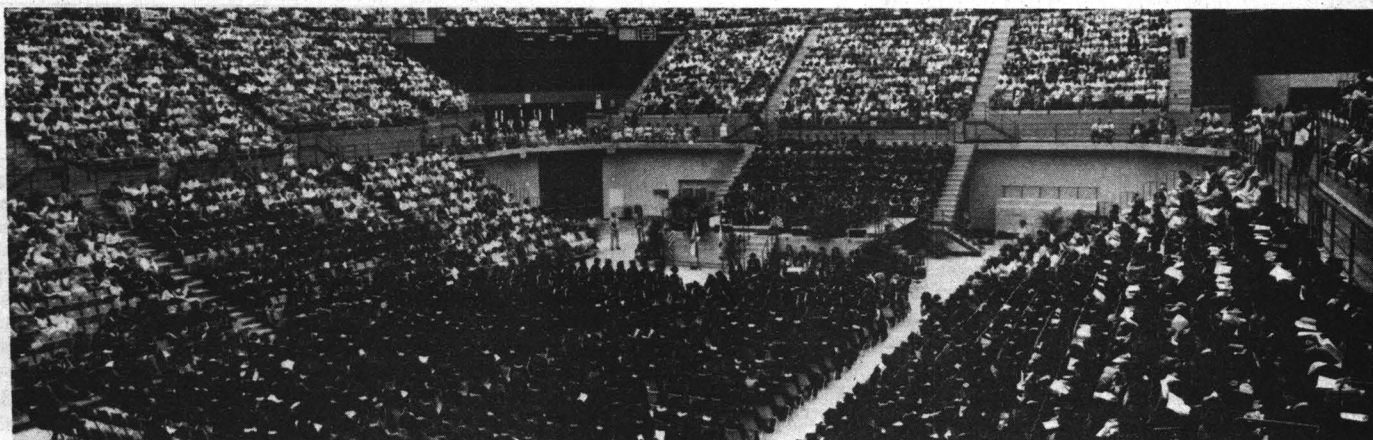
Candidates with a GPA of 3.90 or above shall receive a diploma designated of "summa cum laude." (With Highest Honor)

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

Commencement

Commencement ceremonies at USF are held twice a year; December and May. All students who have graduated the previous Summer Term and are candidates for degrees in the Fall Semester are eligible to participate in the December graduation. Candidates for degrees for the Spring Semester are eligible to participate in the May graduation. Information for those eligible will be mailed to them during the Semester in which they should participate. If information is not received, the student should contact the Office of Records and Registration. Graduate students (Master's, Education Specialists, and Doctorate) will not participate in commencement exercises until all requirements for such degrees have been fulfilled.

Commencement at the Sun Dome



Graduation Requirements—Graduate Programs

For complete discussion of graduate programs and academic policies and

procedures, students should refer to the section on "Graduate School".

Certification Requirements—Associate of Arts

Upon the student's successful completion of the minimum requirements for the Associate of Arts, an appropriate degree will be awarded.

To receive the Associate of Arts, a student must complete 60 semester hours of university credit; the last 20 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.

Application for the Associate of Arts degree is obtained from the Undergraduate Studies Office of Academic Advising prior to the application deadline. The degree must be awarded prior to the student's ac-

cumulation of 90 semester hours. Detailed instructions to determine the student's eligibility to receive the A.A. degree are included with the application form.

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 of 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.

Limited Access Student Records

The following student records are open for inspection only by the student, or parents of dependent students as defined by the Internal Revenue Service, and such members of the professional staff of the institution as have responsibility for working with the student or with the student's records.

1. Student Health and Medical Records
2. Student Disciplinary Records
3. Records of Student Personal Non-Academic Counseling
4. Required Student Financial Income Records

5. Student Permanent Academic Records (from which transcripts are made)
6. Student Placement Records

Except as required for use by the president in the discharge of his official responsibilities, the custodians of limited access records may release information from such records only upon authorization, in writing, from the student, or upon order of a court of competent jurisdiction.

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, and the most recent previous educational agency or institution attended.

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 members of the public, as well as to other students and members of the faculty and staff.

NOTE: General release of the aforementioned types of "directory

information" is accomplished pursuant to USF policy. USF policy prohibits use of such information for commercial purposes.

Students must inform the USF Office of Records & Registration, *in writing* (on forms available for that purpose), of the information they wish withheld from the University Directory and other listings or "directory information." Such requests will be effective for the academic year during which they were initiated unless earlier, *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.

NOTE: At the time of catalog preparation USF's FERPA policy was under revision. Students should review the University Class Schedule for Information on the new policy.

Special Academic Programs

USF/Florida Public Community College Dual Enrollment

Some undergraduate students may find it advantageous to dually enroll at a Florida public community college while attending USF. Procedures to permit this type registration are available *only* during the host institution's regular registration period. 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.

Student attending a Florida public community college may dually enroll at USF. Please contact your community college adviser for additional information and course approval.

School of Continuing Education

The School of Continuing Education serves the multiple continuing education needs of the community through its divisions of Conferences and Institutes, Lifelong Learning, and Special Degree Programs, the English Language Center and Weekend College. Educational services offered by the divisions range from adult degree programs to continuing education credit courses at off campus locations and a wide variety of noncredit programs and services designed to meet individual and organizational educational needs. Programs are offered in many locations but are coordinated from the division offices on the Tampa campus.

Credit Courses: For a discussion of credit course offerings, refer to page 18.

Noncredit Programs and Services: A variety of noncredit educational programs (workshops, seminars, short courses, etc.) of varying lengths are 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 adults 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 in selected programs sponsored by the School of Continuing Education and approved by an academic unit. Transcripts indicating awarded CEU's are available on request.

The School of Continuing Education develops programs for business and industry, government, professional, civic, and service groups. A variety of instructional methods are used to assure maximum participation in the educational programs. Distinguished faculty members from the several colleges of the University, faculty from other institutions of higher education, as well as 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 all adults who have a desire for knowledge and interest in the subject matter.

Bachelor of Independent Studies External Degree Program

The Bachelor of Independent Studies (BIS) Program is an adult oriented, external degree program for individuals whose life styles preclude attendance at regular classes. The BIS student proceeds at his/her own pace, and for the most part, in his/her own setting. The exception is the seminars which require periodic, short term residence.

The curriculum consists of interdisciplinary studies that are divided into four areas: the Humanities, Natural Sciences, Social Sciences and Inter-area Studies.

The student approaches the *first three areas of study* via guided independent study and a seminar. Directed reading or independent study requirements represent long term involvement as compared with the short term duration of a seminar. The first three study areas are in free standing order. The student is encouraged to start in his/her area of strength.

Studying in absentia and usually on a part time basis, the student engaged in independent study relates with a faculty adviser who furnishes directions regarding reading assignments, methods of reporting, and other study projects. The student demonstrates that he/she has attained the level of proficiency required for completion of independent study in a particular area through the satisfactory completion of an area comprehensive examination. The exam may be taken on or off campus.

When certified as eligible for a seminar, the student is invited to attend a three week seminar in conjunction with each of the first three study areas (Humanities, Natural Sciences, and Social Sciences). Seminar residence requirements, in other words, add up to a total of nine weeks of periodic residence on the USF Campus. Each seminar represents a period of intensive, residential learning under the direction of a team of faculty members.

The *fourth area of study*, or inter-area studies, represents an opportunity to integrate the various insights gained from the first three study areas. Fourth area study is essentially a thesis-oriented experience.

Applicants 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.



Fees for the BIS Degree Program are as follows:

Application Fee	\$15.00
Pre-Enrollment Procedures	60.00
1st Study Area	
Independent Study	450.00
Seminar	450.00
2nd Study Area	
Independent Study	450.00
Seminar	450.00
3rd Study Area	
Independent Study	450.00
Seminar	450.00
Fourth or Inter-area Studies	975.00
Total*	3,750.00

*Please note that the fees listed do not include such additional expenses as books, travel, and living expenses during seminars.

Students may not transfer credits into or out of the BIS Program. Program policy does provide for *recognition of prior learning* which may have been achieved through formal study, leisure time reading, life or work experience, or a combination of these. More specifically, applicants who can demonstrate sufficient competence may waive up to a maximum of two areas of guided independent study. Applications for waiver are processed following completion of the pre-enrollment procedures. Those who take an area comprehensive exam for waiver will be assessed a fee of \$75.00. Applicants who have sufficient competence in some but not all of the disciplines in a study area receive advanced placement or an abbreviated reading program based on the individual's background and needs. The concept of advanced placement is implemented by the study area adviser following the student's enrollment.

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. Those with an appropriate associate degree, in other words, complete two study areas comprised of two units of independent study and two resident seminars. The two study areas, in these instances, (i.e. Social Science & 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 study areas so defined 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 BIS Program is academically responsible to the Vice-President for Academic Affairs through the BIS committee. Administratively, the Program reports to the Dean the School of Continuing Education. Brochures are available upon request. For further information, write: Director, BIS Program, University of South Florida, Tampa, Florida, 33620.

The Division of Conferences and Institutes

The Division of Conferences and Institutes develops educational programs consistent with the needs of specific groups and organizations. Professional program coordinators are available to provide technical assistance in program planning, budget preparation, program management and evaluation.

The English Language Center (ELC)

The English Language Center offers intensive English as a Second Language (ESL) to non-native speakers. Students are given a placement test upon registering for the Program. This test determines the level of proficiency into which the student is placed. The range of proficiency levels are Elementary, Low-intermediate, High-intermediate, Advanced, and pre-university ESL.

Students are in 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). Those who complete Pre-university ESL classes usually score above 550 TOEFL. The program is non-credit. The cost is \$1,000.00 per semester with an additional non-refundable \$25.00 application fee. The English Language

Center 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 Division of Lifelong Learning

The Division of Lifelong Learning offers a number of programs, courses, and services designed to meet the personal improvement and cultural needs of individuals. The division also coordinates the Senior Citizens Tuition Waiver Program (see page 16).

Weekend College Program

The USF Weekend College Program is an innovative means of obtaining a B.A. degree for adults who work full time. It is not a separate degree program; students in the program may major in any discipline that offers a B.A. degree.

The program features three instructional modes: a weekly class offered at an off-campus site (an office, factory, union hall, etc.), a television course broadcast four days a week, and a weekend conference course. The weekly class is a regular course listed in the USF Catalog. The television course is part of a nationally known curriculum. The weekend conference course is an intensive, three-times-a-semester analysis of a specific area within a discipline. All courses are taught by regular USF faculty. Typically a student enrolled in the Program would receive 11-12 hours credit for the three courses.

Weekend College is patterned after and developed through the cooperation of the national To Educate the People Consortium, headquartered at Wayne State University. The program also receives significant support from the United Labor Agency of the Florida AFL-CIO, especially in the development of class sites.

The program is aimed toward working adults who desire a B.A. degree but find the lengthy process or part-time study difficult or impossible. It is also directed toward workers in business or industries that provide tuition rebates for their employees.

Three different areas of approximately one year each are emphasized in the program. Typically students begin with the social science area, move to humanities and conclude with natural science. Completion of these areas, together with requirements for freshman English and any other standard B.A. requirements, fulfill the general distribution and electives outside of the major requirements for a B.A. degree. All that remains for the students is completion of approximately one year's work in a selected discipline or major.

Students in the Program must conform to all USF requirements in respect to admission, good standing, graduation requirements and the like. Weekend College is administered through the School of Continuing Education.

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 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 with Essay Subject Examination, 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 1104
Mathematics	MGF 113, 114, 2202

3. Students who transfer to USF will receive such CLEP credit as is posted on the official transcript from the institution the student is leaving and meets the SUS minimum score standard. 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.

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

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 and 5. No credit is allowed for scores of 1 or 2.

Additional information is available in the Office of Evaluation and Testing, Academic Services.

Independent Study

Graduate or 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 can 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.

New College of USF

New College, an honors-level educational program on the Sarasota Campus, offers students the opportunity to work in traditional liberal arts areas within an innovative curricular structure.

Students create their own term-by-term educational contracts, with the help of faculty sponsors, permitting a maximum amount of self-direction and independent study. New College students have the option of completing their work for the bachelor's degree in three years.

A residential college with its own admissions and graduation requirements and its own faculty, New College is partially supported by funds from the private New College Foundation. (See full description of New College of USF on page 133.)

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.

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.

University of Florida Correspondence Courses

The University of Florida has been designated as the only institution in the State University System to offer correspondence courses. Therefore, the University of South Florida will consider such courses as resident credit, however grades earned are not transferable. Exception: Grades for University of Florida correspondence course 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 (Special) Student—Dual Enrollment

Dual enrollment in USF classes is open to academically qualified students currently enrolled in high school. For detailed information, refer to page 15.

Non-Degree Seeking (Special) Student Enrollment

Individuals not desirous of earning a degree but who would like to enroll in classes may register as non-degree seeking (Special) students. For detailed information, refer to page 15.

Talent Search

The Talent Search Program is designed to assist high school students or drop outs from low-income families who have academic potential to complete high school and to continue their education in a postsecondary institution or training program.

Its purposes are to work with high school counselors and community agencies to provide youths guidance and counseling and information about colleges, universities and other postsecondary programs and to assist them in the application process to gain admission and to receive financial aid where applicable.

To qualify the applicant must meet the following criteria:

- (1) Age 12 through 27
- (2) Citizen of the USA or is in the USA from another country and intends to become a permanent citizen
- (3) Financial or cultural need. (Must meet current federal income eligibility criteria (documented))
- (4) Possess exceptional potential for success in postsecondary education (student should have grade point average of C or above)
- (5) School dropout with demonstrated aptitude for re-entry into and success in a school or postsecondary educational program

Interested persons should contact Director, Talent Search University of South Florida.

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 established federal guidelines.
2. Student must have completed the 9th grade and be presently enrolled in the 10th or 11th grade in a high school.
3. Student would have approximate grade point average of C.

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

Exchange Programs

National Student Exchange

The University is affiliated with the National Student Exchange (NSE) which permits undergraduate students to study for up to one year in another public university as a part of their program at the University of South Florida. These exchanges can occur only at universities which are part of the National Student Exchange.

In addition to the University of South Florida, other universities participating in this program are University of Alabama, California State College at Bakersfield and Chico, Humboldt State University and Sonoma State University, both also in California, University of Northern Colorado, University of Delaware, Eastern Connecticut State College, Georgia State University, University of Georgia, University of Hawaii at Hilo and Manoa, Boise State University and University of Idaho, Illinois State University and Northeastern Illinois University, Indiana University-Purdue at Fort Wayne, University of Northern Iowa, Fort Hays State University and Pittsburg State University in Kansas, University of Maine at Fort Kent, University of Southern Maine, University of Maryland and Towson State University (MD), University of Massachusetts in Amherst and Boston, Oakland University-Rochester (MI), Moorhead State University (MN), Jackson State University (MS), Eastern Montana College, Montana State University, University of Montana, Kearney State College (NEB), University of Nevada in Las Vegas and Reno, Rutgers College-Rutgers University, Trenton State College and William Paterson College all in New Jersey, New Mexico State University, University of New Mexico, Buffalo State College (NY), State University College at Potsdam (NY), North Carolina State University, University of North Carolina at Charlotte, University of North Dakota, Bowling Green State University (OH), Eastern Oregon State College, Oregon State University, University of Oregon, Indiana University of Pennsylvania, West Chester State College (PA), Rhode Island College, University of South Carolina, Winthrop College (SC), South Dakota State University, University of Tennessee-Knoxville, University of Utah, College of the Virgin Islands-St. Thomas, and the University of Wisconsin at Green Bay and River Falls. The number of participating schools increases each year so this list must not be considered complete. An up-dated listing is maintained by the NSE office.

Under the National Student Exchange program, University of South Florida students apply for exchange status at their home campus. To qualify, students must be in their sophomore or junior year while at the exchange school, and have a 2.5 grade point average. They pay in-state fees at the host campus and the credits and grades transfer back to the University of South Florida upon completion of the exchange.

Application deadlines for September exchange is March 1 annually. Thereafter, no applications for exchange are processed until September for mid-year exchanges if such are possible. *Students are urged to apply early as there are quotas established for participation in the NSE Program.* The NSE Program is coordinated by the Off-Campus Term Program. The OCT Program maintains a library of materials about the program and the member institutions involved in the NSE Program. Interested students should contact the Director of the Off-Campus Term Program for information and application.

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. Students 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 Florida State University System as well as by certain other U.S. colleges and universities, national educational organizations, and foreign institutions of higher learning.

Programs of the Florida State University System are listed below.

Administered by the University of Florida: year aboard program at

the University of Utrecht in the Netherlands; year abroad program, University of the Andes, Bogota, Colombia.

Administered by the Florida State University: two semester and academic year programs at study centers in Florence, Italy, and London, England; summer program in Belgrade, Yugoslavia.

Administered by the University of South Florida: separate summer programs in London, Spain, France; intersession programs in Mexico, and Peru.

Through USF's institutional membership in the Institute of International Education, the Council on International Educational Exchange, and the American Association of State Colleges and Universities, students may participate in study abroad programs in France, Spain, Italy, Mexico, Canada, and other countries.

Students who prefer independent study abroad, rather than the formal institutional programs, may do so through the Off-Campus Term. The Off-Campus Term offers intersession programs in Jamaica and in the Cayman Islands.

The programs described in this section are approved exchange 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 the College of Social and Behavioral Sciences.

Florida College Exchange Program

Through an exchange agreement, students of the University of South Florida, with the approval of their advisers, 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 dual 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.

UNDERGRADUATE STUDIES

Undergraduate Studies contains the office of the Dean of Undergraduate Studies, Community College Relations, Cooperative Education and Placement, the Registrar's Office, Army ROTC, Air Force ROTC, National Student Exchange, the Off-Campus Term (with the College of Social and Behavioral Sciences), the Open University (with Educational Resources), the Honors Program, and Academic Services. Academic Services consists of Academic Advising, Evaluation and Testing, Project Thrust, and Special Services.

Undergraduate Studies is administered by a Dean who supervises the

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

Academic Services

This area is a facility for students who have not yet declared an academic major to receive information, services, and counsel necessary for effective

decision-making in regard to his or her academic and professional future.

Academic Advising

The centralized academic advising office of Academic Services in Undergraduate Studies is concerned primarily with the assistance of new lower level students, students who have not selected an academic major, and students who are meeting the specific requirements for entrance into certain limited access programs (e.g., nursing, mass communications, engineering). Good advice and careful planning are extremely important for the exploratory student.

Since the decision about a major affects many aspects of a student's present and future life, the staff of fulltime advisers maintains close liaison with other areas so that they will be better equipped to use information from them in relation to the function of academic advising. Some of these resources are the college advising offices, the Counseling Center for Human Development, Cooperative Education and Placement, and Financial Aids.

The office serves as an initial point of contact for prospective students who need information about the University's academic structure.

The office also provides special advising services for minority students in Undergraduate Studies.

This office certifies students for the Associate of Arts degree.

Evaluation and Testing

The office of Evaluation and Testing, Academic Services, serves three principal functions:

1. **Admissions and Academic Testing:** Tests required for admission to colleges, graduate and professional schools as well as many other special test are administered by this office. Examples are the SAT, ACT, GRE, Medical College and Law School Admission tests.

2. **Test Development 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 (NCS 7008) are available to all faculty and authorized personnel.
3. **Credit-By-Examination** (see page 40): The College-Level Examination Program (CLEP) is administered through this office as are other examination programs designed to provide alternative means for students to achieve credit.

Project Thrust

Project Thrust is a University-wide program designed to assist minority students in achieving their academic goals. The retention program more specifically aids those minority students who have declared majors.

Project Thrust provides tutorial services, study skill classes, extended classes, special summer programs, and advising and counseling at no charge to the student. When a student encounters academic problems, it is required that he/she meet with the Project Thrust Advisor. It is during this conference that the student receives information and assistance with obtaining academic support services needed to regain and maintain good academic standing at the University of South Florida.

Special Services Program

The Special Services Program is a federally funded grant program which provides additional support for selected students who are experiencing academic difficulty, from low income families, or who are physically disabled. The program provides an opportunity for students who might not meet all admission criteria, but whose high school records indicate the potential to succeed in college.

Students who participate in the program receive special instruction in the areas of English composition, reading study skills, and mathematics. These students are also assisted by a counselor/advisor who involves them in experiences that contribute to eliminating academic deficiencies, broadening the academic career perspective, and coping with college life. Free tutoring is available based on student need and faculty-staff referral.

Air Force ROTC (Reserve Officer Training Corps)

Air Force Officer Training Corps

The Department of Air Force Aerospace Studies was established in September 1946, to select and prepare students, through a permanent program of instruction, to serve as officers in the Regular and Reserve components of the United States Air Force. The curriculum emphasizes the uniformly high level of military understanding and knowledge required of all Air Force officers.

AFROTC training is divided into two phases: The first two years constitute the General Military Course; the last two the Professional Officer Course. The Department offers a four-year and a two-year program. Each of these options leads to a commission as a Second Lieutenant in the United States Air Force. The four-year program requires completion of both the General Military Course, a four week field training course and the Professional Officer Course. Students with prior active military service or previous training at Military schools may, on the basis of their experience, receive a waiver for portions of the General Military Course. The two-year program requires, as a substitute for the General Military course, completion of a six-week Field Training Course at an Air Force Base prior to formal enrollment in the Professional Officer Course. Junior College and other non-ROTC college transfer students with no previous ROTC training, who qualify academically, are eligible for the two-year program.

AFROTC training is offered to both men and women students and provides free uniforms and text books. Application for post-commissioning flying training is available to men and women.

General Military Course

The General Military Course (GMC), a two-year course, examines the role of U.S. military forces in the contemporary world, with particular attention to the United States Air Force, its organization and mission. The functions of strategic offensive and defensive forces, general purpose, and aerospace support forces are covered. The development of airpower over the last sixty years is examined by tracing the various concepts of employment of airpower and by focusing on factors which prompted research and technological change. A variety of events and elements in the history of air-power are stressed, especially where these provide significant examples of the impact of airpower on strategic thought.

The Professional Officer Course

Enrollment in the Professional Officer Course (POC) is open to applicants who demonstrate a high officer potential. Applicant must: (1) be able to fulfill all requirements for a commission prior to his 30th (26½ years if flying applicant) birthday; (2) have two years of academic enrollment remaining in order to obtain degree; (3) sign a written contract agreeing to complete the course; (4) be a citizen of the United States; (5) pass the Air Force Officers' Qualification Test; (6) pass the Officer physical examination; (7) terminate membership (if member) of any reserve component; (8) enlist in Air Force Reserve (Obligated Reserve Section); and (9) have an academic average of 2.0 or above. Veterans entering the University who desire a commission through AFROTC should contact the Professor of Aerospace Studies prior to registration.

All Professional Officer Course cadets receive subsistence amounting to \$100.00 per month for up to 20 months. This is in addition to the pay received for the four-week Field Training which is normally accomplished between the Sophomore and Junior year. Field Training pay is 50 percent of the basic pay of a Second lieutenant. Cadets also receive compensation for travel expenses and are furnished food, housing, uniforms, and medical care while attending Field Training, which is conducted at regularly established Air Force Bases. When the student successfully completes the Professional Officer Course and graduates from the University, he is commissioned a Second Lieutenant in the United States Air Force Reserve. Normally he will be called to active duty and given an assignment commensurate with his academic major, the needs of the Air Force and his personal desires. The active duty requirement for those who enter

and satisfactorily complete navigator training or pilot training is six or seven years, respectively, from initial call to active duty. For others, the requirement is four years after initial call to active duty.

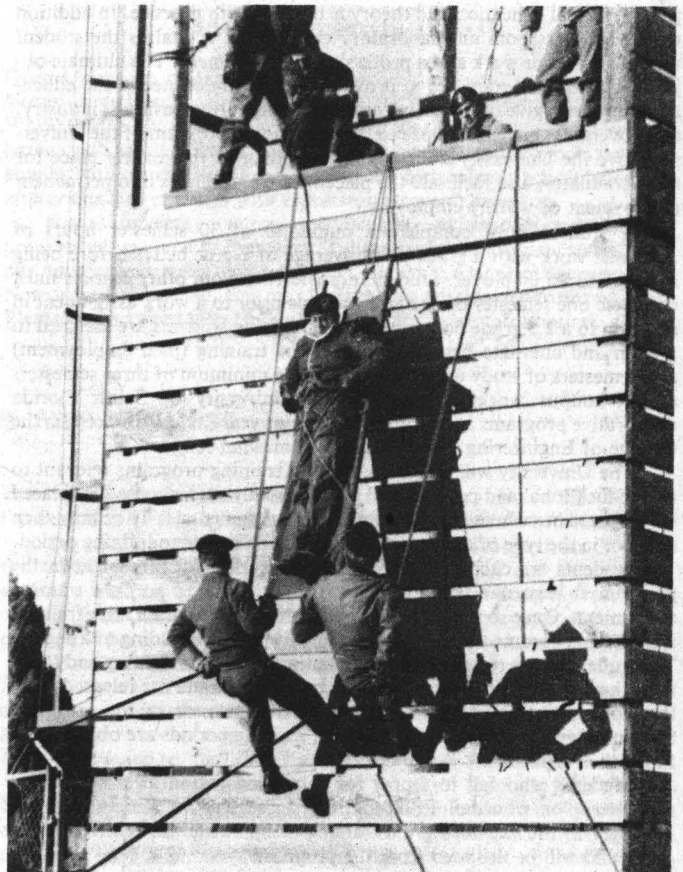
Army ROTC (Reserve Officer Training Corps)

The University of South Florida is one of 288 Army ROTC Host Institutions in the United States. All male and female University of South Florida students may participate in the Army ROTC Program. Participants who successfully complete the ROTC program are commissioned Second lieutenants (Regular and Reserve) in the United States Army. ROTC graduates may request to serve their commitment in an Army Reserve or National Guard Unit. (Three years minimum active duty).

Features of the program include scholarship opportunities, a veterans' program, and an abbreviated curriculum for transfer students or others who did not participate in Basic (Freshman and Sophomore) ROTC. A special summer program is also available on the Tampa campus. A contractual agreement may be made to provide ROTC graduates a guarantee that they will serve only in a Reserve component (Army Reserve or National Guard) upon graduation. Selected students may serve as officer trainees within National Guard or Army Reserve units in a paid status concurrent with enrollment in Advanced ROTC. An early commissioning option is available for students with prior military or high school ROTC experience. This option allows for commissioning prior to academic graduation. Students who avail themselves of this option serve in a Reserve or National Guard unit while continuing their education. Upon graduation, students may request active duty in the United States Army.

Enrollment is open to qualified students at all levels, including graduate students. Students incur no military commitment by participating in Basic ROTC.

Military Science course offerings are available on both St. Petersburg and Tampa campuses. Offerings are published each semester. Interested students should contact the Professor of Military Science or Campus Coordinator for enrollment information.



Office of Community College Relations

All transfer should refer to other sections about undergraduate transfer on page 14.

Community/junior college and other undergraduate students planning to transfer to the University should contact the Office of Community College Relations (both before and after transfer) for needed assistance. The primary concern of the Office of Community College Relations is to assist community/junior and other college transfer students (and staff members of those colleges) to better understand the University of South Florida; its philosophy; its programs; and its procedural operations. This office, conversely, has a responsibility for the interpretation of the community/junior and other colleges 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 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 col-

leges 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 provision of the Statewide Articulation Agreement. It is strongly recommended that students transferring from community/junior colleges to the University of South Florida complete their 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 college transfer student, on the other hand, unlike the freshman, 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 any possible assistance in this important, additional period of transition.

Cooperative Education & Placement

One of the recognized goals of a college education is to maximize career satisfaction and the University of South Florida has dedicated itself to the purpose of assisting students in realizing their career objectives. Undergraduate students are encouraged to participate in the Cooperative Education Program and graduating students are urged to take advantage of the Placement Service.

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 or 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 their graduates; and facilitate the placement of graduates into permanent employment of worthy employers.

A student must complete a minimum of 30 semester hours of academic work with a grade point average of 2.5 or better before being assigned to 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. Qualifying students are assigned to a team and alternate between semesters of training (paid employment) and semesters of study until they complete a minimum of three semesters of off-campus work assignments. All University of South Florida cooperative programs are approximately four years in length except in the College of Engineering, which requires somewhat longer.

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 their 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 three semester requirement and are released from the Cooperative Education Program by the 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 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 Director of Cooperative Education and Placement.

Cooperative Education students may take course work during their training period not to exceed six hours. Details of the arrangements should be discussed with the Cooperative Education Director or a Coordinator.

Plans to develop a Comprehensive Cooperative Education Program in the College of Engineering are in the early stages.

Graduating Students and Alumni

Each year representatives from business and industry, educational 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. Resume referral services are available to alumni desiring career relocations.

The Occupational and Employer Information Library provides materials on vocational guidance, career opportunities, and employers.

The following data concerning the statistical records of some of our 1980 graduates is provided for your information. It is hoped that this information will be helpful to you in making decisions for your future academic pursuits.

You should be aware that registration with the Office of Cooperative Education and Placement (by which the date is compiled) is entirely voluntary on the part of the student and that the student is not required to provide follow-up information on employment. This should be considered when examining the different percentages of registered students, the percentages that report employment, and the percentages remaining on active or inactive file, may of whom may have obtained employment without reporting it.

This survey encompasses University of South Florida seniors who graduated from August 1980 through July 1981. Only those students who registered with the Placement Office were surveyed for the Placement and salary information contained in this report. This information was gathered from employers, students, and survey letters.

Of 4,549+ graduating students, 1,635 or 35.9% registered with the Placement Office. Of the 1,635 registered graduating students:

401—24.5%—accepted positions
255—15.6%—remained on active file for referral
979—59.9%—were inactive

NOTE: Questions concerning salary range should be directed to the Cooperative Education and Placement Office for explanation.

SUMMARY 1980-81

Colleges	Degree	Number of Graduates	Registered With Placement	Percent of Graduates Registered	Reported Number With Jobs	Percent Registered With Jobs	Average Annual Salary
Arts & Letters	B	403	118	29.3	10	8.5	12,604
	M	34	3	8.8	..	..	..
	D	6	1	16.6	..	..	..
Business Administration	B	1,009	600	59.4	169	28.2	14,661
	M	57	21	36.8	9	42.8	18,790
	D	..	..	..	..	..	..
Education	B	735	398	54.1	47	11.8	10,800**
	M	539	34	6.3	6	17.6	11,448**
	D*	32	1	3.1	..	..	..
Engineering	B	227	192	84.6	117	60.9	21,672
	M	20	11	55.0	9	81.8	24,304
	D	..	..	..	..	..	..
Fine Arts	B	117	14	12.0	Excluded due to lack of data		..
	M	11	3	27.2			
	D	..	..	..
Natural Science	B	324	75	23.1	14	18.6	16,558
	M	31	10	32.2	3	30.0	23,700
	D	6	..	..	..	..	..
Social & Behavioral Sciences	B	828	144	17.4	13	9.0	12,048
	M	159	10	6.3	4	40.0	13,706
	D	11	..	..	..	..	..
Sub-Total	B	3,643	1,541	42.3	370	24.0	..
	M	851	92	10.8	31	33.7	
	D	55	2	3.6	..	..
TOTAL		4,459 +	1,635	35.9	401	23.5	

*Either Education Specialist or Doctoral Degree

B—Bachelor's Degree
M—Master's Degree
D—Doctoral Degree

**10-Month Salary

+ Excluding College of Nursing and Bachelor of Independent Studies

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 several times annually and Urban Survival projects for 12 to 16 hours credit in New York City or any other urban area. The latter project involves intense 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 many 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 project for working as a volunteer in some community program. These projects 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 10 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.*

Open University (O.U)

Open University brings USF college credit courses to students through television and radio. Broadcast on WUSF-TV, Channel 16 (UHF) and WUSF(FM) 89.7 radio, Open University is ideal for the working person, a parent with small children, a student with elective hours to complete, or anyone with the desire to learn. Classes are conveniently scheduled in the afternoons and evenings with repeats on weekend mornings.

Open University courses are available to anyone regardless of previous educational background. Tuition costs are identical to on campus courses and credit will appear on students' transcripts accordingly. Non degree seeking students may register using designated forms by mail. Please contact the Open University office for more information.

Academic Services and Support

University Library

It is important that a library take into account not only the books on its shelves but also the people it serves. This point of view is central in the philosophy of the University of South Florida Library. The University expects students to become familiar with the University Library book collection, to master the techniques of using it, and to achieve a familiarity with books which will carry over into later life.

The University Library building was completed in March, 1975. The seven floor building with its open stacks, adjoining study areas and many individual carrels, has been designed to facilitate study, research, and reading. When fully occupied, it will provide space for 2,500 readers and accommodate over 800,000 volumes.

The present library collection consists of about 590,000 volumes and is constantly growing in order to serve the University community's need for materials for instruction and research, as well as for personal

knowledge and cultural advancement. All academic areas are served, with the exception of the College of Medicine which has its own library.

The card catalog and reference collection are located on the first floor. Reference service is provided at the Reference and information desks. In addition to assisting students and faculty in using the reference sources in the Library, the Reference staff offers computer searches of online data bases to students, faculty, and others on a cost recovery basis.

To assist students in learning about the resources of the Library the Reference staff offers a two-credit course, *Use of the Library*. The staff also gives orientation lectures on library use and provides individual assistance to students in search strategy and bibliographic form. A descriptive guide to the Library and its services is also available.

Circulating books are located on the third through fifth floors. Patrons may check out books at the Circulation desk, first floor before exiting through the library security system in the lobby. Students are required to have a picture identification card, validated for the current

term, to check out books from the circulating and reserve collections. 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 Reading Room, which serves as one of the Library's quiet study centers.

The U.S. Documents collection is also on the basement level. The Library is a depository for U.S. Government publications and also received the microprint edition of the United Nations documents and official records. The Documents staff is available to assist in using these materials.

The periodicals collection is on the second floor. In addition 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. The Microform room, also on the second floor, holds a large collection material in microtext; this material provides access to many important sources otherwise inaccessible.

The fourth floor Special Collections Department houses the Library's rare books, University Archives and the Florida Historical Society Library. This area contains an extensive collection of books, maps, documents, and manuscripts covering historical and contemporary Florida. These valuable items are in closed stacks, but the materials and assistance are available at the service desk.

Division 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 Division of Sponsored Research is the central coordinating unit for research and other sponsored educational 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, they have been awarded over 4,000 grants totaling more than \$150 million, and have produced tens of thousands of scholarly and creative works. 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.

Division of Educational Resources

The Division of Educational Resources offers the following services for USF faculty, staff and students:

Audio-Visual Services—provides equipment such as 16mm projectors, filmstrip projectors, 35mm projectors, TV Receiver/Monitors, video equipment, etc., for classroom use, University events and other functions. AV materials, such as microphones, patch cords, audio and video cassettes, splicing tapes, and more, are available for purchase. Audio-Visual Services also provides simple and complex public address systems; recording and dubbing services; as well as maintenance of audio and video equipment.

The **Film Library** houses over 4,500 films which are available at no charge for utilization in scheduled USF courses; for rental external agencies or non-academic internal utilization; and for preview in the Film Library located on the Tampa campus. Reference and research for films not in the USF collection are also provided. The collection contains USF-produced films and video cassettes and NRDC materials that are available for purchase.

The **University Media Center (UMC)** is a resource center for instructional materials and non-book media. Adult non-print materials may be checked out on loan with a university validated I.D. as well as printed material for K-12. A Production Room provides graphics and photography facilities, duplicating equipment, and a laminator for use by all USF personnel.

The **University Media Center Lab (UMC Lab)** provides study aids using assorted audio-visual media for USF students. Faculty members may convert portions of their classroom teaching to media for use in the Lab. This facility is available certain evenings each week for evening students as well as the scheduled daytime classroom hours.

Graphics The Graphics Department provides a professional, creative design and production service. Design and layout of publications; production of classroom visuals; and visuals for use in film, slide and video presentations, all come within the capabilities of this department.

Photography The Photography Department provides a wide variety of professional services to students, staff and faculty; from black and white printing to color slide processing. Passport and application photography are also offered as well as University ID's for all campuses. In addition to providing coverage of university events, the Photography Department also creates photographs for catalogs and other official University publications.

Graphic and Photographic Services are available to students, faculty and staff for classroom use, University events and other functions.

Media Design and Production designs, writes, and produces slide shows, small format video programs, and 16mm films including scripting, visual design, and all stages leading to the final product.

ID's—All identification cards for students, faculty and staff are produced by Photography. Legal identification must be shown to obtain an ID. ID service is available throughout registration and the first week of classes each semester. During the balance of the semester, ID's are made on Monday from 4:00-5:00 pm, Wednesday from 2:00-3:00 pm, and on Thursday from 9:00-11:00 am. There is no charge for the original ID or to replace a damaged ID providing the damaged card is presented. All other replacements are \$5.00 each.

WUSF-TV (Channel 16) is a non-commercial educational television station serving the communities of the nine surrounding counties as an important outreach arm of the University. Channel 16 produces and airs more local programming than any station in the area while bringing the best of the offerings from the Public Broadcasting Service (PBS), the Southern Educational Communications Associations, and other high quality program sources.

WUSF (FM), 89.7 mhz, is a stereo, public radio station serving the University and surrounding communities with a 12-county area, with 20 hours a day of fine arts, public affairs, and educational programming. It is a member of National Public Radio (NPR) and Florida Public Radio. The sub carrier of the station is also programmed 20 hours a day with newspaper and other readings for the "print-handicapped," requiring a special receiver loaned to qualified listeners. Most of the reading is done by volunteers.

O.U. (Open University) provides opportunities for everyone regardless of previous education to earn college credit with courses offered through media, including television and radio (WUSF-FM and/or WUSF-TV). Courses are approved by the Department of Education for teacher certification or recertification. Course offerings are announced prior to each academic semester. (For more detailed information, see page 45).

Computer Research Center

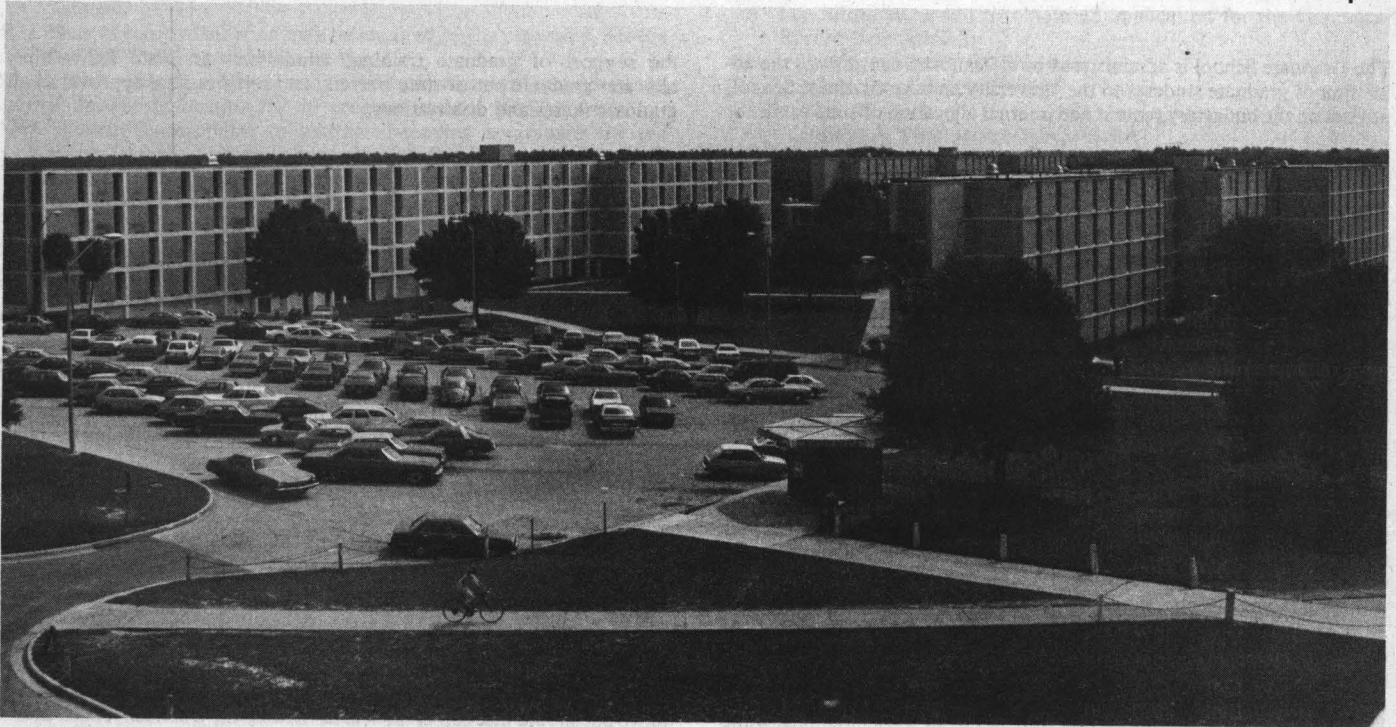
The University is the host institution for a large scale digital computer facility which provides administrative, instructional, and research computing support for the University of South Florida and other agencies in the Region. This combined operation has been designated as the Central Florida Regional Data Center within the State University System.

The Computer Research Center makes computing services available to USF users. The professional staff includes Instruction and Research consultants who assist student and faculty users working on qualified projects. In the data systems area, services to University administrative units are through project teams composed of Systems Coordinators, systems analysts and programmers. The Center staff also contains Data Entry, Data Control and Computer Operations personnel and Systems (software) technical specialists. Computing projects are established through the CRC Office of Services. The Center operates as a service facility. Charges are made at published rates and are available at the Center.

Computing equipment includes an IBM System 3033N with tape and disk storage units, card readers and printers and a plotter at the central site, the Student Services Building. Remote batch job entry stations and on-line keyboard terminals operate at various locations. Remote access units are also located at the St. Petersburg, Sarasota, and Fort Myers campuses. The Center maintains key punch machines and other equip-

ment in "open use" areas to enable student and faculty users to prepare and check their programs and data. These areas are accessible in general on a 24-hour basis daily, while computer processing of academic work operates on a basic 8 a.m. to midnight schedule (10 a.m. to midnight Sunday) seven days a week.

Residence Hall Complex





GRADUATE SCHOOL

The Graduate School is administered by a Dean who coordinates the admission of graduate students to the University and the Graduate School, advises on the budgetary request and internal allocation of state funds for

the support of graduate training, administers graduate fellowships, allocates graduate out-of-state waivers, and certifies final approval of all graduate theses and dissertations.

Admission to Graduate Study

Graduate students are advised to apply early as the University accepts applications one year in advance. Applications for which all credentials are not received by the deadline for their specific program will not be considered for that semester. Some departments have different, earlier deadlines than those listed on pages 4-5. Students should check the requirements for the specific programs in which they are interested. A \$15.00 non-refundable application fee must accompany the application unless the student has been previously enrolled as a degree-seeking student and paid the fee at the University.

Students who seek admission as first-time or transfer graduate students to a graduate degree program and to post-baccalaureate professional programs in the State University System shall be required to meet minimum system-wide requirements. Programs may impose more restrictive admission policies if they so desire. These criteria are listed in the appropriate sections in this catalog.

In order to be considered for admission, a first-time graduate student or a student transferring from a graduate program at another university must have a bachelor's degree or equivalent from a regionally accredited university and meet at least one of the following criteria:

1. Shall have earned a "B" average or better in all work attempted while registered as an upper division student working for a baccalaureate degree, or
2. Shall have a total quantitative-verbal Graduate Record Examination score of 1000 or higher or an equivalent score on an equivalent measure approved by the Board of Regents, or
3. Shall have earned a graduate degree from a regionally accredited institution.

Each student who seeks admission as a first-time or transferring graduate student shall be required to present his or her score on the Aptitude Test of the Graduate Record Examination, or an equivalent score on an equivalent measure approved by the Board of Regents, to support the application for admission. The GRE may be waived in individual cases by the University.

Applicants denied admission shall be given timely notice and reason for their rejection in writing. Applicants denied admission who meet the minimum system-wide standards may request reconsideration by written request to the Director of Admissions within thirty days of the date of denial. The request shall contain reasons why reconsideration is warranted.

Applicants from non-regionally accredited U.S. institutions may apply for special consideration for admission on an individual basis if they score a minimum of 1000 on the quantitative-verbal portion of the GRE or 500 on the Graduate Management Admission Test (GMAT) and have a "B" average on all work attempted while registered as an upper division student working for a baccalaureate degree.

Applicants for the College of Business Administration (except Economics) are evaluated based on a combination of indicators, namely, the Graduate Management Admission Test (GMAT), the upper division undergraduate GPA, and other measures that indicate success in the program such as experience, leadership potential, etc. For the MBA and MS in Management the applicant must have a combined total of at least 1000 under the formula: Upper division GPA X 200 plus the GMAT to total 1000 or higher, (1075 is the sought for minimum). For the Master of Accountancy, applicant must submit a score of 475 or higher on the GMAT and at least a "B" average (3.0) in all work attempted while registered as an upper division student. Applicants for the M.A. in Economics are required to have a minimum of 1000 on the GRE and a "B" average or better as an upper division undergraduate.

Test scores are required of all applicants. The GRE is given five times

a year and the GMAT four times a year at a multitude of centers in the U.S. and in many foreign countries. Candidates must register for this examination at least four weeks in advance of the test date and should allow six weeks for the receipt of their test scores.

A student desiring to attend classes but who has not been admitted to a graduate program may register as a Special Student, but such a student should be aware that only 12 hours in this category may be applied to a degree program and the actual number is determined by the department or college representative.

Acceptance by the college and the program for which the student is applying includes any additional materials required by the specific program.

Student who have been admitted on a provisional basis must submit the missing credentials before a second registration will be permitted, and these must substantiate their eligibility for admission.

In admitting students for a given academic year, up to 10 percent of the graduate and post-bachelor professional students admitted for that academic year may be admitted as exceptions to the above criteria. Students admitted as exceptions need not meet any of the criteria listed above but should meet other criteria devised by the University, such as excellent letters of recommendation from trusted educators, or satisfactory performance in a specified number of graduate courses taken as post-bachelor students, or practical professional experience in the discipline for a specific period of time.

Students with bachelor's degrees or equivalent who do not meet the system-wide criteria and who wish to enroll in courses but not degree programs at the post-bachelor's level may enroll under the classification of special post-bachelor non-degree students. Universities wishing to admit special post-bachelor non-degree student to graduate degree programs after the students have satisfactorily completed a specific number of credits may do so provided that the number so admitted is included as part of the 10 percent exception.

A student's acceptance to graduate standing is granted for the semester and for the particular program specified in the official acceptance notification. In the event that a student wishes to change the date of entrance, the student must notify the Office of Admissions in writing of intent to do so. Failure to enroll during the specified semester without notifying the Admissions Office will result in the cancellation of the admission and will necessitate reapplication.

A graduate student, enrolled for work in a program, who wishes to change to another program at the same level, must make formal application through the Office of Records and Registration.

If, on completion of one graduate degree, a student wishes to begin work on another advanced degree at USF, the student must reapply at the Office of Admissions.

Procedure for Applying

1. Applicants must submit a USF application for admission and a \$15 non-refundable fee prior to the deadline for the program and the University.
2. Two official transcripts from every institution of higher learning attended must be submitted directly from the issuing institution to the Office of Admissions.
3. Admissions test results are required from every applicant. These must be sent directly to Graduate Admissions Office from the testing agency.
 - a. Graduate Record Examination Aptitude Test. *All applicants ex-*

cept those applying to Business Administration (see below), must submit scores from the GRE aptitude test taken with 5 years preceding application.

- b. Graduate Management Admission Test (GMAT). All applicants to Business Administration, except those applying to Economics, must submit scores from the GMAT. Those applying to Economics must submit scores from the GRE aptitude test (see above).
4. Letters of recommendation may be required by the programs. See the individual College section for particulars.
5. All credentials must be received in the Admissions Office prior to the deadline for application for the program and for the University.
6. A student's acceptance to graduate standing is granted for the semester and the particular program specified in the official acceptance notification. The student must validate that acceptance by enrolling for that semester. If admission has not been granted because of a late application or missing credentials, or if the student does not enroll for that specific semester, the student must request that the Admissions Office update the application for a future semester and specify the new enrollment date. This request must be made in writing with 12 months of the initial requested entry date. If a request for change of semester is not received in the specified time, a new application and fee must be submitted. Request for change in entry date must be received before the program and University deadline of the semester desired.

An applicant will be permitted to request change of entry date twice without fee. After the second request, a new application and another fee will be required.

International Applicants

The University is concerned for the welfare and academic success of the International Applicant. In keeping with this concern, the University feels that it is necessary that both the student and the adviser have a realistic understanding of the student's academic ability and competence in English in the key areas of listening, reading, writing and comprehension.

Therefore, the University requires the submission of the Test of English as a Foreign Language (TOEFL) with a minimum acceptable score of 550. In addition, colleges may require other testing programs prior to the student's first enrollment.

International applicants must have earned an appropriate degree to indicate that he/she is academically prepared and qualified to undertake the studies requested. Applicants to graduate studies must have earned in an institution of higher learning a degree which is equivalent to a bachelor's degree from a regionally accredited university in the United States.

A complete USF International Student Application should be received by USF at least six months prior to the desired entry date, together with the non-refundable \$15.00 application fee. Submission of this formal application does not guarantee admission.

For all international applicants the following items are required as a part of the formal application:

1. Completed USF International Student Application.
2. A \$15.00 non-refundable fee submitted with the application.
3. A letter of recommendation from the last institution attended to the Director of Admissions.
4. Three letters or recommendation sent directly to the program to which the student is applying, and attesting academic performance and capability.
5. A certificate of financial ability showing proof of financial resources sufficient to cover tuition, fees, room and board, and other expenses for the full academic year. Travel costs must be assumed by the student. A student who has signed a statement indicating sufficient financial resources cannot expect the university to assume responsibility if his/her funds prove inadequate.
6. Applicants whose native language is not English are required to submit scores from the Test of English as a Foreign Language (TOEFL). A minimum score of 550 is required for all colleges and programs. Applicants are responsible for making arrangements with the Office of Educational Testing Service to take the examination and to have their scores sent directly from the testing service to the Office of Admissions. *Student copies are not acceptable.*
7. GRE/GMAT Test Scores:
All applicants to graduate studies (except those applying to the College of Business Administration) must submit scores on the Graduate

Record Examination (GRE). Graduate applicants to the College of Business Administration (with the exception of Economics) must submit scores from the Graduate Management Admission Test (GMAT). Applicants for the program in Economics must submit scores from the GRE.

Application and information for the required tests may be obtained from the addresses listed below

- a. For information and to obtain an application for the Graduate

Record Examination:

Graduate Record Examination
Educational Testing Service
Box 955

Princeton, New Jersey 08540, U.S.A.

- b. For information and to obtain an application for the Test of English as a Foreign Language:

Test of English as a Foreign Language
Educational Testing Service
Box 899

Princeton, New Jersey 08540, U.S.A.

- c. For information and to obtain an application for the Graduate Management Admission Test:

Graduate Management Admission Test
Educational Testing Service
Box 966

Princeton, New Jersey 08540, U.S.A.

8. International applicants must request all schools attended to submit directly to the Office of Admissions, transcripts of all work attempted. Transcripts and all other documents in a language other than English must be accompanied by a certified English translation signed and sealed by the U.S. Consul or other authorized government official. Applicants must submit certificates, diplomas, and transcripts showing subjects and grades from the first year of university work to the time of application. Documents submitted will not be returned to the applicant or forwarded to another institution.

Non-Degree Seeking (Special) Students

Students who are qualified to enroll in specific graduate courses but who do not intend to work toward a graduate degree may enroll as Special Students. Special Students may enter classes on a space available basis by obtaining consent of the course instructor. Special Students must meet all stated prerequisites of courses in which they wish to enroll. Certain classes are available only to degree seeking majors and may not be available for Special Students. *No more than 12 hours of credit earned as a Special Student may be applied to satisfy graduate degree requirements.* Any application of such credit must be approved by the degree granting college and must be appropriate to the program.

Those interested in enrolling as Special Students are urged to contact the Coordinator of Graduate Studies in the College offering the courses concerned for a description of requirements and procedures. The College of Business Administration has special procedures for Non-degree Seeking (Special) student registration. Please refer to the College of Business Administration section of the Catalog for further information.

Graduate Readmission (Former Student Returning)

Degree-seeking graduate students who have not been in attendance at the University during either of the two semesters immediately preceding the semester enrollment is desired should follow the readmission procedure on page 16. Any graduate degree-seeking student who has not been in attendance at the University for two academic years must reapply through the Office of Admissions by the appropriate deadline.

The Traveling Scholar Program

The University System of the State of Florida has a Traveling Scholar program which will enable a graduate student to take advantage of special resources available on another campus but not available on his own campus.

Procedure

A Traveling Scholar is a graduate student, who, by mutual agreement of the appropriate academic authorities in both the sponsoring and hosting institutions, receives a waiver of admission requirements and the application fee of the host institution and a guarantee of acceptance of earned credits by the sponsoring institution.

A Traveling Scholar must be recommended by his own graduate adviser, who will initiate a visiting arrangement with the appropriate faculty member of the host institution.

After agreement by the Dean of the Graduate School at the University of South Florida and the student's adviser and the faculty member at the host institution, Deans at the other institution will be fully informed by the adviser and have authority to approve or disapprove the academic arrangement.

The student registers at the host institution and pays tuition and registration fees according to fee schedules established at that institution.

Conditions

Each university retains its full right to accept or reject any student who wishes to study under its auspices.

Traveling Scholars will normally be limited to one semester on the campus of the host university and are not entitled to displacement

allowance, mileage, or per diem payments. The sponsoring institution, however, may, at its own option, contribute to the financial support of the Traveling Scholar in the form of fellowships or graduate assistantships.

Graduate Assistantships, Fellowships and Out-of-State Waivers

(1) To be eligible to obtain a one-half time *graduate teaching assistantship*, a student must be degree-seeking and be registered for a minimum of eight credit hours each semester toward degree requirements.

(2) To be eligible to obtain a *graduate research assistantship*, a student may be degree-seeking or a Special Student for one semester of enrollment *only* and be registered for a minimum of eight credit hours toward degree requirements.

Teaching and Research Assistantships are awarded by the individual programs/departments. The Graduate Council of the University of South Florida awards fellowships for graduate students.

The Florida Legislature has provided out-of-state waivers to attract outstanding students. These waivers are available through the Colleges.

Fields of Graduate Study

Master's Degree Programs

College of Arts & Letters

American Studies—M.A.
Communications:
Communication—M.A.
Linguistics (ESL)—M.A.
English—M.A.
French—M.A.
Mass Communications—M.A.
Philosophy—M.A.
Religious Studies—M.A.
Spanish—M.A.

College of Business Administration

Accountancy—M.Acc.
Business Administration—M.B.A.
Executive M.B.A.—M.B.A.
Economics—M.A.
Management—M.S.

College of Education

Administration & Supervision—M.Ed.
Adult & Vocational Education—M.A.
Adult Education
Business & Office Education
Distributive Education
Industrial—Technical Education
Art Education—M.A.
Curriculum & Instruction—M.Ed.
Elementary Education—M.A.
Exceptional Child Education:—M.A.
Emotional Disturbance
Gifted
Mental Retardation
Specific Learning Disabilities
English Education—M.A.
Foreign Language:—M.A.
French
German
Spanish
Guidance & Counseling Education—M.A.
Humanities Education—M.A.
Junior College Teaching:—M.A.
Biology

Business
Chemistry
Economics
Engineering
English
French
Geography
Geology
History
Mathematics
Physics
Political Science
Sociology
Spanish
Speech Communication
Library, Media, and Information Studies—M.A.
Mathematics Education—M.A.
Music Education—M.A.
Physical Education—M.A.
Reading Education—M.A.
School Psychology—M.A.
Science Education—M.A.
Social Science Education—M.A.
Speech Communication Education—M.A.

College of Engineering

Master of Engineering—M.E.
Master of Science in Chemical Engineering—M.S.Ch.E.
Master of Science in Civil Engineering—M.S.C.E.
Master of Science in Computer Engineering—M.S.Cp.E.
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 Mechanical Engineering—M.S.M.E.

College of Fine Arts

Art—M.F.A.
Music—M.M.

College of Natural Sciences

Botany—M.A.
Chemistry—M.S.
Geology—M.S.

Marine Science—M.S.
 Mathematics—M.A.
 Microbiology—M.A.
 Oceanography—M.S. (Cooperative Program with Florida State University)
 Physics—M.A.
 Zoology—M.A.

College of Nursing

Nursing—M.S.

College of Social & Behavioral Sciences

Anthropology—M.A.
 Communicology:
 Audiology—M.S.
 Aural (Re) Habilitation—M.S.
 Speech Pathology—M.S.
 Criminal Justice—M.A.
 Geography—M.A.
 Gerontology—M.A.
 History—M.A.
 Political Science—M.A.
 Psychology—M.A.
 Public Administration—M.P.A.
 Rehabilitation Counseling—M.A.
 Social Work—M.S.W.
 Sociology—M.A.

Intermediate Program

College of Education

Education Specialist—Ed.S.

Doctoral Degree Programs

College of Arts & Letters

English—Ph.D.

College of Education

Education—Ed.D.
 Ph.D.

College of Engineering

Chemical Engineering—Ph.D.
 Civil Engineering—Ph.D.
 Electrical Engineering—Ph.D.
 Engineering Science—Ph.D.
 Industrial Engineering—Ph.D.
 Mechanical Engineering—Ph.D.

College of Medicine

Medical Sciences—Ph.D.

College of Natural Sciences

Biology—Ph.D.
 Chemistry—Ph.D.
 Marine Science—Ph.D.
 Mathematics—Ph.D.
 Oceanography—Ph.D. (Cooperative Program with Florida State University)

College of Social & Behavioral Sciences

Psychology—Ph.D.

Regulations Governing Graduate Study

The development of University policies and principles for graduate work is the responsibility of the Graduate Council. In addition, the Council exercises the right of inquiry and review to insure that high scholarly standards are being maintained. It is responsible for the establishment of University standards and regulations for graduate students and faculty. The Council also reviews all new graduate courses and degree programs and modifications to existing courses and programs. The membership of the Graduate Council includes the chairperson, nine faculty members, two graduate students, and three ex-officio members.

Major Professor

An adviser or major professor will be appointed for the student in his first term of work and will be designated by the chairperson of the department or area in which the degree is sought upon a mutual recommendation from the student and professor concerned.

Quality of Work

Graduate students must attain an overall average of 3.0 (B) in all courses. No grade below "C" will be accepted toward a graduate degree, but all grades will be counted in computing the overall average.

Any graduate student who at the end of a semester is not in good standing shall be considered to be on probationary status. Such a student may be dropped from degree seeking status after one semester of probation by the dean of his college. Notification of probation shall be made to the student in writing by his major professor, with a copy to the college dean. At the end of the probationary semester, the major professor shall recommend to the college dean, in writing, one of three alternatives (1) removal of probationary status; (2) continued probation; or (3) drop from degree program. Every effort will be made during the probationary period to aid the student in reestablishing his standing.

Appeals

Graduate students may appeal actions regarding their academic status:

1. In actions based on departmental requirements, the student may ap-

peal first to his department through his major professor, then to the college dean or his representative, and then to the Graduate Dean if necessary.

2. In actions based on the University minimum requirements, appeal shall be made directly to the Graduate Council.

Reports of actions and appeals will be maintained in the student's permanent file.

Academic Load—Minimum University Regulations

A student taking eight or more hours toward the degree in a semester will be classified as a full-time student. The normal graduate load is 9-12 credit hours.

Students who have completed their course work and continue to occupy space and to receive faculty supervision but who have not made a final thesis/dissertation submission shall register for a minimum of two hours of Thesis/Dissertation. The exact number of hours is determined by staff and facilities to support the student.

Graduate students having completed all requirements except for comprehensive exams or completion of I and/or Z grades will be allowed use of University Library facilities for one semester, with approval of department chairperson.

Graduate students who receive financial support from the University, other than fellowship recipients, will hold their appointments for no more than four semesters (excluding summer term) while working toward the master's degree (five semesters for the MFA) and no more than six additional semesters while working toward the Ph.D. or Ed.D. degrees.

Transfer Credit

Transfer of credit from another regionally accredited school is limited to eight semester hours. All transferred credit must (1) be approved by the program or college concerned, and (2) have been completed with grades of "B" or better. These credits should be evaluated and transferred by the time of enrollment.

Post-baccalaureate and Special Student credit* must be evaluated and transferred by the time of enrollment. All transferred credit must (1)

be approved by the program or college concerned, and (2) have been completed with a grade of "B" or better. The graduate department/program will be responsible for evaluating and initiating the transfer. Earned degrees are transferred in full.

*No more than 12 hours of credit earned as a special student in a non-degree seeking status may be applied to satisfy graduate degree requirements.

Grades in the Graduate Program

Graduate students may not take courses in their major on an S/U basis except for certain courses that are specifically designated in the catalog. Graduate students may take courses outside of their major on an S/U basis with prior approval of the professor of the course, the major professor and the Dean of the College who will approve the degree.

The student may apply a maximum of four hours of such credit (excluding Directed Research, Thesis/Dissertation, Design, Practicum, or Internship) toward a master's degree. Directed Research, (master's and doctoral level) and Thesis and Dissertation courses are designated as Credit Varies and are awarded credit on an S/U basis only. Before a student undertakes work under Directed Research, a written agreement between the student and the professor concerned, setting forth in detail the requirements of the course, shall be completed.

The Z grade shall be used to indicate continuing registration in Thesis/Dissertation courses. Upon satisfactory completion of the Thesis/Dissertation course, the final grade to be assigned will be an S.

Other procedures involving grades such as dropping or adding courses, withdrawals, audits, etc., are the same as those used for undergraduates.

Change of Graduate Degree Program

Students who wish to change their advanced degree program at the same level must obtain a Graduate Change of Program Application from the Office of Records and Registration. The Change of Program is completed upon acceptance of the student by the new department. The new department may elect to accept all, some, or none of the previous graduate courses taken by the student. Courses accepted from prior graduate program must be listed by the new program on the Graduate Change of Program Application. If no courses are listed, it is assumed no courses are accepted from prior program. For changes in level, i.e., from Master's to Ed.S., Ed.D., or Ph.D., the applicant must submit a new application to the Admissions Office.

Student's Choice of Catalog

In order to graduate from the University of South Florida, students must meet all of the graduation requirements specified in the USF catalog of their choice. Students may choose any USF catalog published during their 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.

Master's Degree

Program of Study and Course Requirements

During the first term of study, in consultation with his major professor, the student should plan a program of work to be completed for satisfaction of degree requirements. A copy of this program signed by the student and professor should be maintained in the student's department file.

A minimum of 30 semester hours is required for a master's degree, at least 16 hours of which must be at the 6000 level. At least 20 hours must be in formal, regularly scheduled course work, 10 of which must be at the 6000 level. Courses at the 5000 level are acceptable for credit toward the

At the University of South Florida, continuous enrollment is defined as completing a minimum of two terms per year at USF, inclusive of receipt of grades for courses, through time of graduation. Graduate students who are continuously enrolled may select any catalog within five years of their graduation or completion date. Therefore, students cannot choose a USF catalog published prior to or during an academic year in which they did not complete at least two terms.

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 choice due to decisions and changes by the University in policy matters, course offerings, 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.

Application for Degree

Each student who plans to complete his/her graduate requirements by the end of a term must submit an "Application for Degree" to the Office of Records & Registration by the deadline noted in the Academic Calendar for the term in which he/she expects to graduate. The application form is available in the Office of Records & Registration. (Inquiries regarding approval or denial should be made to the colleges.)

A fee equivalent to one semester hour is charged if the student is not enrolled. Note special enrollment procedures for students submitting theses/dissertations in sections on "Master's Degree" and "Ph.D. Degree."

Commencement Participation

Graduate students (Master's, Education Specialists, and Doctorate) will not participate in commencement exercises until *all* requirements for such degrees have been fulfilled.

Exclusions

Members or former members of the faculty who hold or have held the rank of Assistant Professor, Associate Professor, or Professor are not eligible to be granted degrees from the University of South Florida, except upon prior authorization of the Graduate Council.

In cases where the immediate family of the faculty are enrolled in graduate degree programs, the faculty member may not serve on any advisory or examination committee nor be involved in any determination of academic or financial status of that individual.

Faculty Eligibility

In order to teach a graduate course at the University of South Florida, a person must have a current USF faculty appointment. The director of a thesis or dissertation must be a USF faculty member with an advanced degree, or equivalent professional qualifications, appropriate to the required level of supervision.

master's degree when taken as a part of a planned degree program.

A major professor may approve up to 6 hours of 4000-level courses if taken as part of a planned degree program. Additional graduate credit may be earned in 4000-level courses only if specifically approved by the appropriate dean and by the Graduate Council. Students enrolled in undergraduate courses as a part of their planned degree program will be expected to demonstrate a superior level of performance.

Graduate students may not enroll for more than 18 hours in any semester without written permission from the College Dean.

Supervisory Committee

Students working toward a thesis degree will have the benefit of a supervisory committee. The committee, consisting of the major professor and at least two other members of the department or area in which the degree is sought, will be appointed by the appropriate chairperson upon recommendation from the student and his major professor. The director of a thesis or dissertation must be a USF faculty member with an advanced degree, or equivalent professional qualification, appropriate to the required level of supervision. Notification of the committee appointment will be sent to the Dean of the College and to the Dean of the Graduate School. The committee will approve the course of study for the student, supervise his research, and accept his thesis.

Time Limitations

The University of South Florida has definite time limits covering the following items:

1. Test scores for the Graduate Record Examination (GRE) and Graduate Management Admission Test (GMAT) must be within five years preceding application.
2. Acceptance to graduate standing is granted for the semester and particular program specified in the official acceptance notification. Students must validate their acceptances by enrolling that semester or reapply. In the event that students wish to change the date of entrance, they must notify the Office of Admissions in writing of intent to do so.
3. Graduate students who have not been in attendance during either of the two semesters immediately preceding the semester enrollment is desired may file a Former Student Returning Application through the Office of Records and Registration. Former students returning must apply by the deadline listed in the Catalog. Any graduate degree-seeking student who has not been in attendance at the University for two consecutive academic years must reapply through the Office of Admissions by the appropriate deadline.
4. All work applicable to the Master's Degree requirements must be completed within seven years from the time a student is admitted into the program.

5. Graduate students who receive financial support from the University, other than fellowship recipients, will hold their appointments for no more than four semesters (excluding summer term) while working toward the Master's degree (five semesters for the Master of Fine Arts) and no more than six additional semesters while working toward the Ph.D.

Final Comprehensive Examination

Prior to clearance for the degree, candidates must perform satisfactorily on a comprehensive examination in their major fields. When graduate students take their comprehensive examination, they must be enrolled for a minimum of two (2) hours of graduate credit in their disciplines. If all course work has been completed, such students should be enrolled in Independent Study.

Thesis

When a thesis is required, the thesis must conform to the guidelines in the *Handbook of Graduate Thesis and Dissertations* available in the University Bookstore. An Abstract must also accompany the thesis. The thesis must be submitted to the Dean of the Graduate School at least three weeks before the end of the semester in which the student is to receive the degree. The Graduate School will not accept a thesis after the first day of the semester unless the candidate is enrolled in the proper thesis course for at least two hours. If the student elects to turn the thesis in by the first day of the semester, the student will not be required to register for two hours of thesis. However, the student must have been enrolled the preceding semester for at least two hours of thesis. Only after the thesis has been approved for filing in the University Library can the student be certified for the degree.

Second Master's Degree

A second master's degree may be granted so long as there is no duplication of credit. If there is any duplication of credit, the request must be considered by the Graduate Council. A student cannot be enrolled in two master's programs at the same time.

Ed.S. Degree and Ed.D. Degree

The Education Specialist Degree (Ed.S.) and Doctor of Education Degree (Ed.D.) are offered only by the College of Education. (See page 79 for

policies and procedures.)

Ph.D. Degree

The degree of Doctor of Philosophy is granted in recognition of high attainment in a specific field of knowledge. It is a research degree and is not conferred solely upon the earning of credit and completion of courses or by the acquiring of a number of terms of residency. The amount of residency and the requirements suggested below are a minimum. The degree shall be granted on evidence of proficiency and distinctive achievement in a specified field, by the demonstration of the ability to do original independent investigation and the presentation of these findings with a high degree of literary skill in a dissertation. A minimum of 90 semester hours after the bachelor's degree is required.

Student Committees

An advisory Committee shall be appointed by the chairperson of the appropriate department or program for each student during his or her first semester of residency at the University of South Florida. This Committee shall advise the student on indicated subject matter deficiencies and provide aid in choice of a major professor and an area of research. As soon as an area of research is determined and a major professor is chosen, a Dissertation Committee shall be appointed for the student by the chairperson of the department or program in which the degree is sought. Notice of the appointment of the Dissertation Committee shall be sent by the chairperson to the Dean of the College and the Dean of the Graduate School immediately after the appointment is made. The Dissertation Committee will approve the student's course of study, supervise the research, and the written comprehensive qualifying examination, and conduct the final examination. The Dissertation Committee shall consist of at least five members, at least three of whom must come from the academic area in which the major work for the degree will be done.

Tools of Research

Before a student is eligible to take the comprehensive qualifying examination, he/she must normally have completed two of those "tools of research" requirements designated by the department/college for the particular degree program in which the student is working (e.g., two foreign languages; one foreign language and statistics; computer language and statistics). If courses are used to fulfill "tools of research," graduate credit counting toward the degree will not be given for those courses. The choice of the particular "tools of research" that the student will undertake will be the prerogative of the student's dissertation committee.

Residency

The minimum requirement shall be three academic years of work beyond the bachelor's degree. At least one academic year of residence must be on a campus of the University of South Florida. An academic year's residency shall be defined as a minimum of 8 hours of graduate work per term, or the chairperson of the student's supervisory committee may certify that the student be considered as in full-time residence.

Time Limitations

The University of South Florida has definite time limits covering the following items:

1. Test scores for the Graduate Record Examination (GRE) must be within five years preceding application.
2. Acceptance to graduate standing is granted for the semester and particular program specified in the official acceptance notification. Students must validate their acceptances by enrolling that semester or reapply. In the event that students wish to change the date of entrance,

they must notify the Office of Admissions of intent to do so.

3. Graduate students who have not been in attendance during either of the two semesters immediately preceding the semester enrollment is desired may file a Former Student Returning Application through the Office of Records and Registration. Former students returning must apply by the deadline date listed in the catalog. Any graduate degree-seeking student who has not been in attendance at the University for more than two consecutive academic years must reapply through the Office of Admissions by the appropriate deadline.
4. Any graduate work counted toward the fulfillment of the requirement of the Ph.D. degree after admission to candidacy must be done within a seven-calendar-year period.
5. Graduate students who receive financial support from the University, other than fellowship recipients, will hold their appointments for no more than four semesters (excluding summer term) while working toward the Master's degree (five semesters for the MFA) and no more than six additional semesters while working toward the Ph.D.

Comprehensive Qualifying Examination

As soon as a substantial majority of the course work is completed the student must pass a written comprehensive qualifying examination over the subject matter of the major and related fields. This examination may be supplemented by an oral examination. If the degree is not conferred within five calendar years of the comprehensive examination, the examination must be taken again.

Admission to Candidacy

Students may not enroll in Dissertation until they have been admitted to candidacy. Graduate students are not eligible for candidacy until the Dissertation Committee certifies that the student has successfully completed the comprehensive qualifying examination and in the opinion of the committee has demonstrated the qualifications necessary to successfully complete requirements for the degree. Following the completion of the Admission to Candidacy Form, the student may enroll in Dissertation hours. The Admission to Candidacy form shall be approved by the dean of the college and forwarded to the Dean of the Graduate School for final approval.

Final Oral Examination

When the Dissertation Committee has inspected the final draft of the dissertation and finds it suitable for presentation, the Committee will complete a form requesting the scheduling and announcing of the final oral examination. The request form with a draft copy of the dissertation will be submitted via the appropriate department chairperson to the college dean and the Dean of the Graduate School for approval. The announcement must be received in the Graduate Office at least two weeks prior to the scheduled oral examination. The final oral examination must be held at least three weeks before the end of the semester in which the student is to be awarded the degree.

The chairperson of the examination shall be appointed by the dean of the college and shall not be a member of the student's Dissertation Committee or the department or program in which the degree is sought.

Dissertation

Students in the Ph.D. programs must take an appropriate number of credits for dissertation, the exact number to be determined by the departmental and/or individual requirements.

At least two weeks before the end of the semester in which the student is to receive the degree, a candidate must submit to the Dean of the Graduate School a completed dissertation that has been signed by his committee. The dissertation must conform to the guidelines in the *Handbook of Graduate Theses and Dissertations* available in the University Bookstore. An abstract is also required. The Graduate Office will not accept a dissertation after the first day of the semester unless the candidate is enrolled in the proper Dissertation course for at least two hours. Students who submit the dissertation by the first day of the semester will not be required to register for two hours of dissertation; however, the student must have been enrolled the preceding semester for at least two hours of Dissertation. Prior to college certification for the degree, the dissertation must be approved by the Dean of the Graduate School. The two copies of the dissertation will then be deposited in the University Library. Each dissertation will be microfilmed with the student being assessed a fee for this service.

Cooper Hall housing the College of Arts and Letters





COLLEGE OF ARTS & LETTERS

The College of Arts and Letters studies culture in the broadest meaning of the word. The College offers students 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, the College 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 colleges 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, the College 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.

The departments and degree programs in the College of Arts and Letters are American Studies, Classics, Communication, English, Foreign Languages, Humanities, Liberal Studies, Linguistics, Mass Communications, Philosophy, and Religious Studies.

BACCALAUREATE LEVEL DEGREE PROGRAMS

Admission to the College

Admission to the College of Arts and 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 within the college.

For entrance into the college, each undergraduate must complete an application in the Dean's office. Majors in departments with several options must specify on this form their choice of option.

The student will then be assigned to an adviser from the major field and will be counseled in the selection of courses which will fulfill his/her educational needs and satisfy the requirements for the Bachelor of Arts degree. Three programs (American Studies, Liberal Studies, and Mass Communications) have additional requirements, listed under Programs and Curricula.

General Requirements for Degrees

The degree of Bachelor of Arts will be conferred upon those who fulfill the requirements for degrees with majors in the fields of:

- American Studies (AMS)
- Classics (Latin, Latin-Greek, Interdisciplinary Classics) (CLS)
- Communication (SPE)
- Communication-English (ENS)
- Communication-Theatre (STA)
- English (ENG)
- Foreign Languages, Combination (FOL)
- French (FRE)
- German (GER)
- Humanities (HUM)
- Italian (ITA)
- Liberal Studies (ALA)
- Mass Communications (COM)
- Philosophy (PHI)
- Religious Studies (REL)
- Russian (RUS)
- Spanish (SPA)

A minimum of 120 semester hours credit 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, except for courses taken by majors in the Mass Communications department, which requires a 2.5 in all its departmental work and for admission. The degree program must include the completion of (1) General Distribution Requirements,

(2) a departmental major, and (3) elective courses. At least 80 semester hours must be completed in courses outside the department/language of the major, except for students with a double major in languages. Mass Communications requires 85 hours outside the department.

A student must have a graduation check in the Dean's office one semester prior to the semester in which he/she intends to graduate.

1. General Distribution Requirements

This work comprises a total of forty (40) semester credits which (except for English) may be spread over the normal four-year degree program. The requirement includes:

- Six (6) hours credit in English Composition
- Six (6) hours credit in Humanities/Fine Arts
- Six (6) hours credit in Natural Sciences
- Six (6) hours credit in Social and Behavioral Sciences

The remaining ten (10) hours are to be divided among the last four areas at the discretion of the student and adviser. There can be no more than 8 hours in any department.

See page 34 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, with the exception of Mass Communications, which requires a 2.5 of its majors in all departmental work. At least 80 semester hours must be earned in courses outside the student's major department (or language for foreign language majors). Freshman English and beginning and intermediate foreign language courses will be counted toward this total. Mass Communications is an exception since it requires 85 semester hours.

3. The Departmental Minor

Nine departments or programs in the college offer minors: American Studies, Classics (3), Communication, English (2), Foreign Languages (6), Humanities, 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 this college 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 in the College of Arts and Letters.*

4. Elective Courses

Of the minimum of 120 semester hours required for a bachelor's degree in the College of Arts and Letters, 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 page 37).

GRADUATE LEVEL DEGREE PROGRAMS

Master's Degree Programs

The College of Arts and Letters offers graduate programs leading to the Master of Arts degree in:

American Studies (AMS)

Communication (SPE)

English (ENG)

French (FRE)

Linguistics-English as a Second Language (ESL)

Mass Communications (COM)

Philosophy (PHI)

Religious Studies (REL)

Spanish (SPA)

The University requirements for graduate work at the master's level are described on page 52. The departmental requirements are listed under the appropriate program descriptions.

Doctor of Philosophy

The Department of English offers a program leading to the degree of Doctor of Philosophy. The University requirements for graduate work at the doctor's level are given on page 53. Specific requirements for the degree are listed under the Department of English.

NON-DEGREE PROGRAM

Certificate of Concentration

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 Letters 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 Letters. Students working for a Certificate of Concentration register as special rather than as degree-seeking students.

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 American Civilization. American Studies is a multi-disciplinary program 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)

Other American Studies Courses and Related Electives from Supporting Departments Chosen in Consultation with an American Studies Adviser (22 cr. hrs.)

Students desiring to major in American Studies are reminded that an interview with a department adviser is mandatory.

Requirements for the Minor

Total Semester Hours Required (18 cr. hrs.)

a. Required Courses (12 cr. hrs.)

1. AMS 3001 (4)

2. Any two of the following

AMS 3201 (4)

AMS 3210 (4)

AMS 3230 (4)

b. 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.

Requirements for the M.A. Degree

Requirements for Admission. An applicant must (1) meet the general admission requirements of the University; (2) have an academic average of "B" or better in all work attempted during the junior and senior years or a total score of 1000 or better on the Graduate Record Examination; (3) demonstrate (to the American Studies Graduate Committee) a satisfactory knowledge of United States history, literature, and government. In some cases, the students may be required to take extra undergraduate courses before admission.

Course Work and Thesis: Total required hours (33)

1. 9 hours: AMS 6155, AMS 6254, AMS 6805

2. 18 hours: To be selected from 5000 or 6000 level courses by related departments such as history, philosophy, English, sociology, and humanities. No more than 12 hours from any one department may be credited toward the degree. Work in AMS 6901, AMS 6915, AMS 6934 may be included.

Other Requirements: During the last semester of course work, each candidate must take a written examination on selected topics, illustrating major aspects of civilization in the U.S.A. from colonial times to the present. Upon completion of the thesis, the student must take an oral examination which may include relationships between thesis and material covered on the written examination.

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

Requirements for the B.A. Degree:

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.

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 or 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 (GRE 3110, 3111) is available.

LATIN (Basic preparation for the Latin major: a minimum of two years of high school Latin or LAT 1100 and LAT 1101.

LAT 1100 and LAT 1101 may be used to satisfy general distribution requirements but do not count as credit toward major.)

Required courses for the Latin major

24 hours selected from the following:

LNW 4311 (4)	LNW 4381 (4)	LNW 4665 (4)
LNW 4312 (4)	LNW 4500 (4)	LNW 4675 (4)
LNW 4322 (4)	LNW 4501 (4)	LNW 4900 (1-4)
LNW 4361 (4)	LNW 4660 (4)	LNW 4930 (4)
LNW 4362 (4)		

Supporting courses required for the major

12 hours selected from the following:

ARH 4100 (4)	CLT 3102 (4)	EUH 3402 (4)
ARH 4170 (4)	CLT 3370 (4)	EUH 3412 (4)
CLA 4100 (4)	EUH 2101 (3)	EUH 3413 (4)
CLA 4120 (4)	EUH 2102 (3)	PHP 4000 (3)
CLT 3040 (3)	EUH 3401 (4)	PHP 4010 (3)
CLT 3101 (4)		

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 1100, 1101.

Supporting courses required for the Latin-Greek major

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

MINORS

Required courses 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 (4)	EUH 3412 (4)
CLT 3370 (4)	EUH 3413 (4)

Required courses 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)	EUH 3402 (4)
CLA 4100 (4)	PHH 3100 (3)
CLT 3101 (4)	PHP 4000 (3) or
CLT 3370 (4)	PHP 4010 (3)
EUH 3401 (4)	

INTERDISCIPLINARY CLASSICS AND THE ANCIENT WORLD MAJOR

A. Basic Preparation

Beginning Latin, Greek, or Hebrew, or high school equivalent (no major credit)

B. Required Courses

- Two advanced courses in Latin, Greek or Hebrew.
(See Latin and Latin-Greek or HEB 4250, 4251) (8)
- Prehistoric and Ancient Art (ARH 4100) (4)
- Greek and Roman Art (ARH 4170) (4)
- History of Ancient Philosophy (PHH 3100) (3)
- Plato (PHP 4000) or Aristotle (PHP 4010) (3)
- Classical Mythology (CLT 3370) (3)
- Two courses (with adviser's approval) from:
Ancient History I (EUH 2101) (3)

- Ancient History II (EUH 2102) (3)
- Hellenic Greece (EUH 3401) (4)
- Hellenistic Greece (EUH 3402) (4)
- Roman Republic (EUH 3412) (4)
- Roman Empire (EUH 3413) (4)

6. Two courses* (with adviser's approval) from:

- Ancient Civilization (CLA 3000)
- Greek Civilization (CLA 4100)
- Roman Civilization (CLA 4120)
- Egyptian Civilization (CLA 4160)
- Mesopotamian Civilization (CLA 4171)
- Mid-Eastern Mythology (CLA 3851)
- Greek Literature in Translation (CLT 3101)
- Roman Literature in Translation (CLT 3102)
- New Testament Greek (GRE 3040)
- New Testament Greek II (GRE 3041)
- Classical Arts and Letters I (HUM 4433)
- Classical Arts and Letters II (HUM 4434)
- Classical Political Theory (POT 3013)
- Land of the Bible (REL 3201)
- Introduction to the Bible/Old Testament (REL 3210)
- Introduction to the New Testament (REL 3243)
- Biblical Archaeology (REL 3280)
- History and Criticism of Public Address (SPC 4680)
- Rhetorical Theory (SPC 6231)
- Women in Western Civilization (WST 3210)
- Theatre Origins (THE 4180)
- Literature of the Western World Through the Renaissance (LIT 3101)
- The Bible as Literature (LIT 3374)

Other courses may be substituted with adviser's approval.

*must total 6-8 hours

7. Senior Seminar (CLA 4935) (3)

(36 Hours)

Requirements for the minor

- One year of Latin, Greek, or Hebrew at the University level.
(LAT 1100, LAT 1101, or GRE 1100, GRE 1101, or HEB 3100, HEB 3101) (8)
- One course in Art History (4)
- One course in Ancient Philosophy (3)
- Classical Mythology (4)
- One course in Ancient History (3)

(22 Hours)

■ COMMUNICATION (SPE/ENS/STA)

Both a major and a minor are available in Communication and each offers the student the opportunity to develop an area of emphasis consistent with one's academic and/or career goals. In addition to core requirements, the department allows each student to tailor communication study to meet individual interests. Combination programs with English and Theatre are also available.

Requirements for the B.A. Degree in Communication:

A major in Communication requires a minimum of 34 credit hours from departmental offerings (excluding SPC 2023, to be completed as part of the general education requirements). A grade of "D" as a final grade within a departmental course will not be counted toward a Communication major or minor. The core requirements for all majors are as follows:

- COM 3003 (3)
- At least one course from each of the four disciplinary dimensions (12 hours).
 - Communication Aesthetics
ORI 3000 (3)
 - Communication History/Criticism
SPC 4680 (3) or SPC 3653 (3) or SPC 3633 (3)
 - Communication Science
SPC 3210 (3) or SPC 3441 (3) or SPC 3301 (3)

D. Communication Application

SPC 2050 (formerly LIN 2200) (3) or SPC 3513 (3) or
SPC 3601 (3) or ORI 4310 (3)

III. Areas of Emphasis (19 hours)

Students will select courses from departmental offerings (3000 level or above) consistent with individual areas of interest. Departmental advisers are available to recommend course choices supportive of scholastic or career objectives such as the following: Business and Professional Communication, Communication Education, Cross-cultural Communication, Organizational Communication, Oral Performance, Political Communication, Pre-law, Pre-seminary.

Requirements for Combination Programs**A. Communication-English**

I and II above, plus six elective hours in Communication.

One course from:

ENL 3012 (4)	ENL 3220 (4)
ENL 3022 (4)	ENL 3230 (4)
ENL 3201 (4)	ENL 3333 (4)

One course from:

AML 3031 (4)	AML 3041 (4)
AML 3032 (4)	AML 3051 (4)

One course from:

CRW 3100 (4)	ENC 3310 (4)
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One course from:

AML 4123 (4)	LIT 3073 (4)
ENG 3105 (4)	LIT 4032 (4)
ENG 3114 (4)	LIT 4043 (4)
ENL 4131 (4)	

Also required:

LIN 3010 (3)	THE 3080C (4)
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B. Communication-Theatre

I and II above plus six hours in Communication (ORI prefix).

Each of the following:

THE 2020 (2)	TPA 2223 (2)
TPA 2200 (2)	TPP 2110 (2)

Two courses from:

THE 3110 (4)	THE 4442 (3)
THE 4370 (3)	TTP 3111 (3)
THE 4401 (3)	

Two courses from:

TPA 3086 (3)	TPP 3790 (2)
TPA 3810 (3)	TPP 4150 (4)
TPP 3235 (3)	TPP 4151 (4)
TPP 3510 (2)	

One additional course from either of the last two categories.

Minor

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 course work. SPC 2023 must have been completed.

1. COM 3003 (3)
2. At least one course from three of the four disciplinary dimensions required for the major (9 hours min).
3. Six hours of Communication electives.
4. Directed readings (SPC 3900, SPC 4900, SPC 5903) may *not* be counted toward the 18 hours requirement.
5. Courses may *not* be taken on an S/U basis.

Requirements for the M.A. Degree:

Requirements for Admission. The Department of Communication offers a Master of Arts degree in Communication. In addition to meeting the general requirements of the University, an applicant must have: (1) a baccalaureate degree in Communication or related fields from an approved college or university; (2) a 3.0 (B) average or better in all work attempted during the last two years of undergraduate study or a score of 1000 on the aptitude portion of the Graduate Record Exam. (All prospective M.A. candidates must take the GRE regardless of GPA); (3) review by the Department of Communication graduate committee; and (4) approval by the department chairperson.

Requirements for the M.A. Degree in Communication**I. Core requirements (12 hours)**

Introduction to Graduate Study (COM 6001) (3)
Rhetorical Theory (SPC 6231) (3)
Communication Theory (COM 6400) (3)

Communication Aesthetics (ORI 6410) (3) or approved alternate

II. Options**A. Non-Thesis Option (36 hours)**

In addition to the 12 hours of core specified above, each student will complete the following:

- 1) 18 hours of departmental electives
- 2) Six elective hours (may include courses from other departments within the University with adviser approval)

B. Thesis Option (30 hours)

In addition to the 12 hours of core specified above, each student will complete the following:

- 1) 12 hours of departmental electives
- 2) Three elective hours (may include courses from other departments within the University with adviser approval)
- 3) At least three hours of thesis credit

■ ENGLISH (ENG)**Freshman English Requirement in the Freshman Year**

All first-time-in-college students are *required* to take Freshman English 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 examination a second time, must take ENC 1101 the first semester, and ENC 1104 the second semester of their freshman year. If a student fails the first course, he must repeat it the next semester and take the second course in the following semester.
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 weeks. During this semester they should not enroll in ENC 1101. If a student either fails or does not attempt the examination during his first nine weeks, he must take ENC 1101 in the following semester. In this case, he will complete the sequence by the first semester of his 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.

Requirements for the B.A. Degree

The program in English provides the student with options in English and American Literature and in Creative Writing. Both options offer the student flexibility in choices of courses and variety in selections. Both options supply a logical, balanced, and complete sequence of courses in English studies. The English-Education and the Communication-English sequences are described under the section for Communication in Arts and Letters and the section for the College of Education. Major requirements are as follows (*a grade of "D" will not be counted toward the English major*):

Option I: English and American Literature. Ten courses (40 hours) as follows:

1. All of the following:

AML 3041 (4)	ENL 3022 (4)
ENL 3012 (4)	

2. Two of the following period courses:

AML 3031 (4)	ENL 3230 (4)
AML 3032 (4)	ENL 3241 (4)
AML 3051 (4)	ENL 3250 (4)
ENL 3201 (4)	ENL 3273 (4)
ENL 3220 (4)	

3. Two of the following courses in major authors:

AML 4300 (4)	ENL 4311 (4)
ENL 3333 (4)	ENL 4341 (4)
ENL 4303 (4)	

4. Three of the following, at least one of which must be at the 4000 level:

AML 3031 (4)	AML 4261 (4)
AML 3032 (4)	AML 4300 (4)
AML 3051 (4)	ENG 3105 (4)
AML 4101 (4)	ENG 3114 (4)
AML 4123 (4)	ENG 4013 (4)

ENL 3201 (4)	ENL 4303 (4)
ENL 3220 (4)	ENL 4311 (4)
ENL 3230 (4)	ENL 4341 (4)
ENL 3241 (4)	LIN 4100 (4)
ENL 3250 (4)	LIN 4370 (4)
ENL 3273 (4)	LIT 3022 (4)
ENL 3333 (4)	LIT 3073 (4)
ENL 4112 (4)	LIT 3101 (4)
ENL 4122 (4)	LIT 3102 (4)
ENL 4131 (4)	LIT 3144 (4)
ENL 4171 (4)	LIT 3374 (4)
ENL 4202 (4)	LIT 3410 (4)
ENL 4210 (4)	LIT 4011 (4)
ENL 4221 (4)	LIT 4032 (4)
ENL 4232 (4)	LIT 4043 (4)
ENL 4242 (4)	LIT 4930 (1-4)
ENL 4251 (4)	

Option II: Creative Writing. This option is designed for aspiring writers of fiction or poetry. This program, in addition to giving credit for writing through a variety of course offerings, attempts to provide information about procedures for publishing.

A. FICTION OPTION: Ten courses (40 hours) as follows:

1. All of the following:

CRW 3100 (4)	CRW 4120 (4)
CRW 3110 (4)	LIT 4011 (4)
CRW 3111 (4)	

2. Three of the following:

AML 3041 (4)	ENL 3022 (4)
AML 4123 (4)	ENL 3333 (4)
ENL 3012 (4)	ENL 4131 (4)

3. Two of the following: (see number 4, Option I, English and American Literature).

B. POETRY OPTION: Ten courses (40 hours) as follows:

1. All of the following:

CRW 3100 (4)	CRW 3311 (4)
CRW 3300 (4)	CRW 4320 (4)

2. Three of the following:

AML 3041 (4)	ENL 3333 (4)
ENL 3012 (4)	LIT 3073 (4)
ENL 3022 (4)	LIT 4032 (4)

3. Three of the following, at least one of which must be at the 4000 level: (see number 4, Option I, English and American Literature).

English and American Literature Minor

Requirements: Four courses (16 hours) as follows:

1. Two of the following:

AML 3041 (4)	ENL 3022 (4)
ENL 3012 (4)	ENL 3333 (4)

2. One of the following period courses:

AML 3031 (4)	ENL 3230 (4)
AML 3032 (4)	ENL 3241 (4)
AML 3051 (4)	ENL 3250 (4)
ENL 3201 (4)	ENL 3273 (4)
ENL 3220 (4)	

3. One course at the 4000 level.

S/U grades will not count toward the minor.

Creative Writing Minor

Requirements: Four courses (16 hours) as follows:

1. Two of the following:

CRW 3100 (4)	CRW 3300 (4)
CRW 3110 (4)	CRW 3311 (4)
CRW 3111 (4)	

2. One of the following:

CRW 4120 (4)	CRW 4320 (4)
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3. One of the following: (see number 4, Option I, English and American Literature).

S/U grades will not count toward the minor.

Requirements for the M.A. Degree:

The M.A. in English is designed primarily to train college teachers. The program includes study of college teaching, as well as the study of literature.

Requirements for admission. An average of "B" in the last two years of undergraduate work (a GRE total score of 1000 may be substituted for

this requirement). It may be necessary to require students who have not been English undergraduate majors to take extra undergraduate courses before graduate admission to English. Other exceptions may be made by the Graduate Committee of the Department of English.

Course Requirements

1. ENG 6009 (1) (this must be taken early in the sequence)

2. Thirty credit hours, which must include:

a. LAE 6375 (3)

b. One of these:

ENL 6206 (3) ENL 6227 (3)

ENL 6216 (3) ENL 6228 (3)

c. One of these:

ENL 6236 (3) ENL 6256 (3)

ENL 6246 (3)

d. One of these:

AML 6017 (3) AML 6018 (3)

e. LIT 6934 (1-6)

Options: It is possible, at student option, to take ENG 6971 (thesis) in place of one of the elective courses. A student may transfer from another university up to six hours of graduate credit. He may take up to six hours of credit in another department (the courses to be approved in advance by the Department of English Graduate Committee).

A student receiving one grade of "C" or lower in a graduate course will be placed on academic probation. A student receiving two grades of "C" or lower will be eliminated from the program, subject to a review by the student's graduate advisory committee.

Comprehensive Examination: There will be a comprehensive examination. The student will be asked to write on the following five areas:

1. British literature before Shakespeare
2. British literature from Shakespeare to 1740
3. British literature from 1740 to 1900
4. American literature before 1900
5. Twentieth Century American and British literature

Students will be graded 1 (Excellent), 2 (Good), 3 (Satisfactory), or 4 (Unsatisfactory). The department will recommend students with a grade of 1 or 2 for admission to the Ph.D. program. A grade of 3 will satisfy the examination for the M.A. degree; a grade of 4 will not.

Public Presentation. Each student will be required to present, before graduate students and faculty, a discussion of a major work or idea. The performance will be evaluated by the student's examining committee.

Thesis. Thesis optional (See Options, above).

Requirements for the M.A. Degree In Junior College Teaching:

This program is intended for those who plan to teach in junior and community colleges. It emphasizes lower-level college teaching.

Requirements for admission. See M.A. program above.

Course Work:

1. EDG 6947 (1-6) (Internship if required—waivers must be endorsed by the College of Education)

2. EDH 6061 (3)

3. EDH 6938 (3)

4. RED 4337 (3)

5. The following English courses:

a. ENG 6017 (3) (offering in advanced composition for teachers only)

b. LAE 6375 (3)

c. One of these:

ENL 6206 (3) ENL 6227 (3)

ENL 6216 (3) ENL 6228 (3)

d. One of these:

ENL 6236 (3) ENL 6256 (3)

ENL 6246 (3)

e. One of these:

AML 6017 (3) AML 6018 (3)

f. Five hours of English electives

A student receiving one grade of "C" or lower in a graduate course will be placed on academic probation. A student receiving two grades of "C" or lower will be eliminated from the program, subject to a review by the student's graduate advisory committee.

Comprehensive Examination. There will be a comprehensive examination. The student will be asked to write on the following five areas:

1. British literature before Shakespeare
2. British literature from Shakespeare to 1740
3. British literature from 1740 to 1900
4. American literature before 1900

5. Twentieth Century American and British literature

Students will be graded 1 (Excellent), 2 (Good), 3 (Satisfactory), or 4 (Unsatisfactory). The department will recommend students with grades of 1 or 2 for admission to the Ph.D. program. A grade of 3 will satisfy the examination requirement for the M.A.; a grade of 4 will not.

Public Presentation. Each student will be required to present, before graduate students and faculty, a discussion of a major work or idea. The performance will be evaluated by the student's examining committee.

Requirements for the Ph.D. Degree

The aim of this program is to produce teacher-scholars who have a good general knowledge of English and a special knowledge in their field of concentration. Each student in the program must take courses in teaching college English, and these courses include actual teaching experience.

The Ph.D. in English involves a minimum of 30 hours of course work beyond the M.A. degree, exclusive of credits devoted to the doctoral dissertation. In addition, each student must fulfill the university's graduate school tools-of-research requirements. A dissertation is required.

To enter the program a student should possess one of the following:

1. A USF M.A. in English with a grade of 1 or 2 on the English M.A. final exam;
2. An M.A. in English from another university, in which case the student may be asked to pass a preliminary qualifying exam;
3. An M.A. in another discipline in which case the student will be required to take supplementary graduate work and pass a preliminary comprehensive exam before being officially admitted to the program.

After completing the necessary course work (which will be selected after consulting with his or her advisory committee), a student must take a nine-hour written doctoral comprehensive exam. Students passing this exam and fulfilling the tools-of-research requirements are admitted to doctoral candidacy. Students failing this exam more than once are removed from the program.

After completion of an approved dissertation the student will defend this dissertation in a two-hour oral examination and may be examined as well on his major field. The doctoral degree is awarded thereafter.

A student may transfer from another university up to six hours of graduate credit. Up to six hours of credit may be taken in another department (the courses to be approved in advance by the Department of English Graduate Committee).

A student receiving one grade of "C" or lower in a graduate course will be placed on academic probation. A student receiving two grades of "C" or lower will be eliminated from the program, subject to a review by the student's graduate advisory committee.

■ FOREIGN LANGUAGES (FRE/GER/ITA/RUS/SPA)

Requirements for the B.A. Degree:

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 minimum of 32 hours of course-work above the intermediate level.

The following languages may also be taken as a minor: French, German, Italian, Latin (under Classics), Russian, Spanish, and Spanish/Portuguese. 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 is available upon sufficient demand.

FRENCH (FRE)

Required courses for the major (13 cr. hrs.)

FRE 3240 (4)	FRW 4100 (3)
FRE 3420 (3)	FRW 4101 (3)

Supporting courses required for the major

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

Required courses for the minor (seven cr. hrs.)

FRE 3240 (4)	FRE 3420 (3)
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Supporting courses required for the minor

Nine hours in 3000, 4000, or 5000 level courses except courses in translation.

GERMAN (GER)

Required courses for the major (14 cr. hrs.)

GER 3240 (3)	GEW 4100 (4)
GER 3420 (3)	GEW 4101 (4)

Supporting courses required for the major

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

Required courses for the minor (six cr. hrs.)

GER 3240 (3)	GER 3420 (3)
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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)	ITW 4100 (4)
ITA 3420 (3)	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)
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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 3400 (4)	RUT 3110 (3)
RUS 4401 (4)	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 (eight cr. hrs.)

RUS 3400 (4)	RUS 4401 (4)
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Supporting courses required for the minor

Eight hours in 3000 or 4000 level courses.

SPANISH (SPA)

Required courses for the major (19 cr. hrs.)

SPN 3241 (3)	SPW 4100 (3)
SPN 3300 (4)	SPW 4101 (3)
SPW 3200 (3)	SPW 4130 (3) or SPW 4131 (3)

All 3000 Level courses may be waived with approval by the Division Director

Supporting courses required for the major

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

Required courses for the minor (seven cr. hrs.)

SPN 3241 (3)	SPN 3300 (4)
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Supporting courses required for the minor

Nine hours in 3000, 4000, or 5000 level courses except courses in translation.

Up to nine hours may be substituted for required courses and/or required supporting courses by successfully passing SPN 3470 (Overseas Study).

SPANISH/PORTUGUESE OPTION

Required courses for the minor, Spanish/Portuguese option (11 cr. hrs.)

SPN 3241 (3)	POR 3210 (4)
SPN 3300 (4)	

Supporting courses required for the minor

Five hours in 3000 or 4000 level Portuguese or Spanish courses except courses in translation.

Requirements for the M.A. Degree:

Requirements for Admission. General requirements for graduate work are given on page 48.

Students who do not have an undergraduate major in French or in Spanish may be required to take additional undergraduate courses before being admitted to the M.A. program. The student must have a 3.0 grade point average over the last two years of undergraduate work attempted, or a total score of 1000 on the Graduate Record Examination. All applications must be approved by the Division of Language.

Program Requirements. For a master's degree in French or Spanish, the following are required:

1. Reading proficiency in a second foreign language.
2. Satisfactory completion of a written comprehensive examination on French language and literature or Spanish and Spanish-American language and literature based on, though not restricted to, a reading list.
3. A thesis written under the direction of a director and two additional readers.
4. Course work following one of the plans listed below:

Plan A

27 hours in one language, plus six hours of FRE 6971 or SPW 6971 (thesis).

Plan B

A total of 27 hours consisting of 18-21 hours of course work in one language, plus 6-9 hours in a second language or in another department (the courses to be approved in advance by the Division of Language Graduate Committee), plus six hours of FRE 6971 or SPW 6971 (thesis).

■ 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. 28-36 credits amount 4000 and 5000 level Humanities courses, with the option of up to eight hours being substituted from among the following four courses: CLA 3000, CLA 3851, CLA 4160, or CLA 4171.
2. HUM 4813, two credits.
3. HUM 4906, three credits.
4. Six credits in the creative or performing arts.

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, and no Humanities courses at the 1000 or 2000 level may be used to fulfill the minor requirement.

Requirements for the B.A. Degree in Humanities Education:

A program designed to prepare secondary school Humanities teachers is available through the College of Education. For requirements, see the College of Education, page 96.

Requirements for the M.A. Degree in Humanities Education:

A graduate program leading to the M.A. degree in Humanities Education (HUE) is available. For requirements, see the College of Education, page 96.

■ LIBERAL STUDIES (ALA)

Requirements for the B.A. Degree:

The Liberal Studies Degree is conceived to fulfill the intent of the traditional Liberal Arts degree and is offered for students who require a

broad academic approach for realization of their conceived academic or pre-professional goals.

For admission to the program, the student must (1) have a minimum of 20 (to a maximum of 80) semester hours, (2) have a minimum Grade Point Average of 3.0 at time of admission, and (3) submit a written proposal explaining the student's special academic circumstances and goals for which this major is appropriate.

Core Curriculum (15 hours minimum)

IDS 3300 (4)	IDS 4344 (3)
(and 2 of the following three courses)	
IDS 3310 (4)	IDS 4930 (1-4)
IDS 3320 (4)	

In addition, the student must complete the General Distribution Requirements and a minimum of 15 semester hours of a foreign language. The remaining 50 semester hours will be devoted to disciplinary study in the Liberal Arts disciplines. When admitted to the program, the student will formulate, in collaboration with the program director, a program of studies to be pursued toward his or her particular academic goals.

■ 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, Communicology, 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 4377 (3)
plus a minimum of 12 semester hours from the following:	
ANT 3610 (3)	LIN 4710 (3)
CLA 3801 (2)	PHI 3100 (3)
LIN 4040 (3)	SPC 3210 (3)
LIN 4701 (3)	

Requirements for the M.A. Degree

Students interested in graduate study in Linguistics are urged to acquire a language background in their undergraduate programs, regardless of their major field of study. The minor in Linguistics is also strongly advised, but undergraduate coursework equivalent to the material covered in LIN 3010, LIN 4040, and LIN 4377 is a prerequisite to graduate study; prospective graduate students who have not had these courses or their equivalents must remedy the deficiency by enrolling in LIN 6407 during their first term as graduate students. Credits earned in the courses LIN 3010, LIN 4040, LIN 4377, and LIN 6407, therefore, may not be counted toward the requirements for graduate degrees in the M.A. programs.

Requirements for admission

The Linguistics Program offers two graduate tracks: The Master of Arts in Linguistics (thesis), and The Master of Arts in Applied Linguistics (Teaching English as a Second Language—non-thesis). In addition to the general requirements of the University, an applicant must (1) have a baccalaureate degree from an approved college or university, (2) have a 3.0 or "B" undergraduate average or better on all work attempted during the last two years of undergraduate enrollment, (3) *plus* submit a score of 1000 on the aptitude portion of the Graduate Record Examination (GRE) distributed as follows: a minimum of 500 on the Verbal portion, plus a minimum of 500 on *either* the Quantitative *or* the Analytic portion of the test; and (4) receive approval of the Programs Graduate Committee. Students who meet all other requirements, but who have not taken the GRE at the time of application, may be admitted *provisionally* to the Program pending receipt of acceptable scores which *must be filed before the end of the first term* of the student's provisional acceptance and enrollment. In the case of students whose native language is not English, the Programs Graduate Committee may elect to waive the GRE minimum score requirement. All students whose native language is not English will be required to take the Test of English as a Foreign Language (TOEFL) exam, upon which a minimum score of 550 is required for admission. In any case, all students will be required to take the GRE exam.

Requirements for the M.A. Degree in Linguistics (Thesis)

- I. Core Requirements (18 hours)
 - Introduction to Graduate Study in Linguistics (3)
 - Syntactic Description (3)
 - Phonological Description (3)
 - Language Acquisition (3)
 - Sociolinguistics (3)
 - History of Linguistic Thought (3)

- II. Additional Requirements (15 hours)

- A. Nine hours of approved electives
 - B. A thesis and six hours of thesis credit

Requirements for the M.A. Degree—Applied Linguistics (TESL) Track (non-thesis)

- I. Core Requirements (18 hours)
 - Same as for the M.A. degree in Linguistics (thesis option above)
- II. Additional Requirements (21 hours)
 - A. TSL 6371 (3)
 - TSL 6372 (3)
 - LIN 6405 (3)
 - B. Six hours of approved electives
 - C. A minimum of six hours of internship through enrollment in TSL 6945

A written and oral Comprehensive Examination is required for all M.A. degree tracks in the program.

■ MASS COMMUNICATIONS (COM)

The Mass Communications department, accredited by the American Council on Education for Journalism in News-Editorial and Public Relations, 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 an internship (MMC 4945) and a practicum (ADV 4940, JOU 3940, JOU 4941, PUR 4700, RTV 3941, RTV 4942, VIC 3943).

Requirements for the B.A. Degree:

To be admitted to the core curriculum in Mass Communications, students must have completed 45 hours with a 2.5 minimum Grade Point Average, and ENC 1101 and 1104 with a minimum grade of "C" in each. Certified typing ability of 35 words per minute is a prerequisite for admission to the department. 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. A 2.5 GPA in Mass Communications courses is required for graduation, and no grade lower than "C" in Mass Communications courses may be used toward graduation.

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 45 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 21 to 22 hours in a major sequence. The

remaining four to eight hours will be selected from a restricted list of selective requirements—for a minimum of 31 and a maximum of 35 hours in Mass Communications courses within the 120-hour degree requirement (at least 85 hours outside Mass Communications courses). 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 towards 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.

The departmental sequence requirements are:

Departmental Core Curriculum

MMC 3100 (3) MMC 3602 (3)

Sequence Requirements**Sequence Selections****I. ADVERTISING Requirements**

ADV 3000 (3)	ADV 3700 (3)	MMC 4420 (3)
ADV 3101 (3)	ADV 4801 (3)	RTV 3225 (1)
ADV 3300 (3)	JOU 3205 (3)	

Selective Requirements

ADV 3103 (3)	MMC 4123 (3)	PUR 4601 (3)
ADV 4940 (1)	MMC 4200 (3)	RTV 3000 (3)
JOU 3100 (3)	MMC 4945 (3)	VIC 3100 (3)
JOU 3206 (3)	PUR 3000 (3)	

Note: The following courses are required outside the department to complete sequence requirements: ECO 2013 or ECO 2023, MAR 3023, MAR 3613 or MAR 4403 or MAR 4203 or MAR 4243. See specific courses for prerequisites.

II. BROADCASTING Requirements**News Option**

JOU 3101 (3)	RTV 3225 (3)	RTV 4301 (3)
RTV 3000 (3)	RTV 3230 (3)	RTV 4700 (3)
RTV 3210 (1)	RTV 3300 (3)	

Selection Requirements

FIL 3004 (3)	MMC 4420 (3)	RTV 3941 (1)
JOU 4104 (3)	MMC 4945 (3)	RTV 4942 (1)
MMC 4200 (3)	MMC 4123 (3)	RTV 4220 (3)

Programming and Production Option

RTV 3000 (3)	RTV 3225 (1)	RTV 4500 (3)
RTV 3100 (3)	RTV 3300 (3)	RTV 4700 (3)
RTV 3210 (3)	RTV 4220 (3)	

Selective Requirements

ADV 3000 (3)	MMC 4420 (3)	RTV 4205 (3)
ADV 3103 (3)	MMC 4945 (3)	RTV 4301 (3)
FIL 3004 (3)	RTV 3230 (3)	RTV 4942 (1)
MMC 4123 (3)	RTV 3941 (1)	

Note: The following courses are required outside the department to complete sequence requirements: POS 2041, ENC 3310 or CRW 3100, ORI 3000, SPC 2023, or SPC 2050 (formerly LIN 2200) or THE 2020, and PHI 1103. See specific courses for prerequisites.

III. FILM Requirements

FIL 3004 (3)	FIL 4404 (3)	VIC 3000 (3)
FIL 3200 (3)	MCC 4123 (3)	VIC 3100 (3)
FIL 4207 (3)	RTV 3225 (1)	

Selective Requirements

ADV 3000 (3)	FIL 4206 (3)	RTV 3000 (3)
ADV 3103 (3)	FIL 4300 (3)	RTV 3100 (3)
FIL 3201 (3)	MMC 4945 (3)	RTV 4220 (3)
FIL 4205 (3)	PUR 3000 (3)	RTV 4301 (3)

IV. JOURNALISM Requirements**News-Editorial Option**

JOU 3100 (3)	JOU 4104 (3)	MMC 4200 (3)
JOU 3101 (3)	JOU 4200 (3)	VIC 3100 (3)
JOU 3205 (3)		

Selective Requirements

ADV 3000 (3)	JOU 4202 (3)	MMC 4945 (3)
JOU 3206 (3)	JOU 4500 (3)	RTV 3225 (1)
JOU 3300 (3)	JOU 4941 (1)	VIC 3000 (3)
JOU 3306 (3)	MMC 4420 (3)	VIC 3102 (3)
JOU 3940 (1)		

Magazine Option

JOU 3100 (3)	JOU 4200 (3)	MMC 4200 (3)
JOU 3101 (3)	JOU 4208 (3)	MMC 4420 (3)
JOU 3300 (3)		

Selective Requirements

ADV 3000 (3)	JOU 4104 (3)	PUR 3000 (3)
JOU 3006 (3)	JOU 4941 (1)	RTV 3225 (2)
JOU 3205 (3)	JOU 4944 (1)	VIC 3000 (3)
JOU 3306 (3)	MMC 4945 (3)	VIC 3100 (3)

Note: The following courses are required outside the department to complete sequence requirements: ECO 2013, CRW 3100, PHI 1103, POS 2041, POS 3142, and SOC 1020. See specific courses for prerequisites.

V. PUBLIC RELATIONS Requirements

ADV 3000 (3)	PUR 3000 (3)	PUR 4100 (3)
JOU 3100 (3)	PUR 4001 (3)	PUR 4601 (3)
MMC 4420 (3)		

Selective Requirements

ADV 3101 (3)	JOU 3300 (3)	RTV 3000 (3)
ADV 3300 (3)	MMC 4200 (3)	RTV 3225 (1)
JOU 3101 (3)	MMC 4945 (3)	RTV 3300 (3)
JOU 3205 (3)	PUR 4700 (1)	VIC 3100 (3)

Note: The following courses are required outside the department to complete sequence requirements: ECO 2013, MAN 3010, POS 2041, and POS 2112. See specific courses for prerequisites.

VI. VISUAL COMMUNICATIONS Requirements

FIL 3004 (3)	MMC 4123 (3)	VIC 3000 (3)
JOU 3100 (3)	MMC 4200 (3)	VIC 3100 (3)
JOU 3205 (3)	RTV 3225 (1)	

Selective Requirements

ADV 3000 (3)	JOU 3300 (3)	RTV 3000 (3)
FIL 3200 (3)	JOU 4208 (3)	RTV 3100 (3)
FIL 3201 (3)	MMC 4420 (3)	RTV 4220 (3)
FIL 4207 (3)	MMC 4945 (3)	RTV 4301 (3)
FIL 4300 (3)	PUR 3000 (3)	VIC 3102 (3)
JOU 3101 (3)		VIC 3943 (1)
JOU 3206 (3)		VIC 4103 (3)

Note: Most Mass Communications courses have prerequisites. They are specified in the course description, pg. 175. Refer to each prerequisite listed to determine progressive prerequisites for each course.

Note: A Mass Communications-English-Education (MCE) major is available through the College of Education (See page 95 for further information).

Requirements for the M.A. Degree

The M.A. degree program in Mass Communications is designed to serve the career objectives of persons experienced in mass media practice and of those who teach or who are interested in Mass Communications research.

The program requires 36 semester hours in course work including a thesis. Twenty-four of these hours (including six hours for the thesis) are taken in the Department of Mass Communications. The remaining 12 hours are taken in graduate-level courses offered by other departments of the University. Thus a full-time student can complete the program in three semesters of work, or longer for a part-time candidate.

Courses in the Department of Mass Communications will stress critical study of mass media practices and performance, and the reciprocal effect of the media and their audiences on each other.

Courses outside the department will be selected in the liberal arts and/or business management areas to complement the student's work in the major field of study. For example, a student interested in reporting urban affairs for a newspaper may elect supporting courses in Sociology and Political Science; a student interested in advertising or public relations practice may elect courses in Marketing and Management; another

might choose to take courses in two or more disparate disciplines in several departments of the University.

To be admitted to the program, an applicant must: (1) have a baccalaureate degree from a regionally accredited institution and present a "B" or better average in undergraduate work; (2) score 1000 or above on the GRE (Aptitude Test) with 600 or above on the Verbal part; and (3) furnish a written statement of reasons for desiring the graduate degree together with four letters of recommendation. Apply to the USF Director of Admissions for application forms.

PHILOSOPHY (PHI)**Requirements for the B.A. Degree:**

Majors in philosophy must complete at least 30 credit hours with the following courses required for graduation:

PHI 3100
PHH 3100
PHH 3420

or approved substitutes. Majors must also take nine credit hours of 4000-6000 level courses.

Requirements for the Minor in Philosophy:

A minor in philosophy consists of the completion of at least 18 credit hours which include two of the following courses or an approved substitute for one only:

PHH 3100
PHH 3420
PHH 3440
PHH 4600

No credit taken on an "S/U" basis may be applied toward the minor.

Requirements for the M.A. in Philosophy.

Requirements for Admission. For admission students must have a "B" average in the last two years of undergraduate work or a score of at least 1000 (composite) on the GRE. Credit toward the M.A. taken outside the department or transferred from another institution must be approved by the Graduate Coordinator and the Department Chairperson.

Program Requirements. The following comprise the degree requirements in Philosophy, in addition to the general requirements for graduate work as specified on page 48.

1. Reading knowledge of a foreign language approved by the student's adviser.
2. 30 credit hours including 21 hours of classroom instruction.
3. A written or oral comprehensive examination.
4. A thesis-type paper, written under the direction of an adviser assigned by the Graduate Coordinator, and approved after an oral defense, by a three-person supervisory committee.

Honors Program

The Department of Philosophy offers the Philosophy major the opportunity of participating in the Philosophy Department Honors Program. A student may graduate with departmental honors if he/she: (1) is accepted by the department as an honors candidate, (2) completes three honors courses with a grade point average of 3.5 or better, and (3) completes the courses necessary for a Philosophy major with a grade point average of 3.2 or better. The three honors courses will consist of two upper-level courses in which the student attends regular class sessions but makes arrangements with the instructor for additional work. The student will receive additional credit for honors work by enrolling for one hour of directed study for each course taken as an honors course. The third honors course will be a research project, and the student will enroll for the project under PHI 4905.

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 life-styles 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 to supply language tools and critical analysis methods which will prepare them for advanced graduate study.

Requirements for the B.A. 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. REL 3000, 4 hrs.
2. Two courses in the history and/or literature of the major western religions: e.g., Judaism, Christianity, Islam, 8 hrs.
3. Two courses in the history and/or literature of other major world religions: e.g., Hinduism, Buddhism, Taoism, 8 hrs.
4. REL 4931, 3 hrs.
5. Concurrently with REL 4931 or in the semester following, REL 4910, for 1 hour credit, to be satisfied by the writing of a paper on a subject related to the REL 4931 seminar and supervised by an assigned faculty person.

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 3000, Introduction to Religion; one course, 4 hrs., in a major Western religion; one course, 4 hrs., 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 3000	Introduction to Religion	4 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, Writings	4 hrs.
	TOTAL		20 hrs.
ELECTIVES (select 16 hrs.):			
	ANT 4367	Cultures of the Middle East	3 hrs.
	ASN 3030	The Middle East	3 hrs.
	HEB 3100	Basic Hebrew I	4 hrs.
	HEB 3101	Basic Hebrew II	4 hrs.
	LIT 3374	The Bible as Literature	4 hrs.
	LIT 4930	Hasidic Literature to Yiddish Theater	4 hrs.
	LIT 4930	Modern European and American Jewish Literature	4 hrs.
	REL 3201	Land of the Bible	4 hrs.
	REL 3280	Biblical Archaeology	4 hrs.
	REL 3600	Introduction to Judaism	3 hrs.
	REL 3900	Directed Readings	1-4 hrs.
	REL 4295	Dead Sea Scrolls	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.

Requirements for the M.A. Degree

The M.A. degree in Religious Studies at the University of South Florida is designed to give graduate education in Religious Studies to public and junior college teachers, counselors, community workers, and clergy. It is also of interest to laypeople who have no professional aim, but who desire an M.A. in Religious Studies. It can be pursued by those with goals in higher education (including Ph.D. studies) and also by those who simply wish to enlarge their academic and professional potential.

Requirements for Admission: Applicants must have an academic average of B or better in all work attempted while registered as an upper division student working for a baccalaureate or a combined score of 1000 on the aptitude section of the Graduate Record Examination (minimum 600 on verbal). Any undergraduate major is acceptable, but if applicants are judged weak in preparation for graduate study in Religious Studies, then the student may be required to make up deficiencies for no graduate credit.

Program Requirements: Candidates will take 36 hours in Religious Studies (including thesis), or, with departmental approval, 18 hours in Religious Studies graduate courses (including thesis) and 18 hours in an approved, planned sequence in some other graduate department of the University.

Candidates will take the Proseminar and any three other seminars for a total of 12 hours. The remaining eight courses or 24 hours required may be taken in other graduate seminars or courses. A candidate may transfer up to eight hours of graduate credit from another university, with departmental approval.

There will be a comprehensive examination written from the three areas of the seminars elected by the student.

There is a thesis and a non-thesis option. Candidates not planning to go on to doctoral studies may elect six additional hours in Religious Studies or in another academic discipline (within the 36 hours required) as part of an approved, planned sequence.





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 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, and General Business, including International Business; 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 designed to:

1. Make graduate level professional education available to qualified men and women who seek managerial career positions in business, government, or education.
2. Support adequately the research activity so vitally necessary to maintain a quality graduate faculty and program.
3. Foster independent, innovative thinking and action as a professional individual.
4. These programs include M.B.A., Master of Accountancy, M.A. degree in Economics and M.S. degree in Management.

Both graduate and undergraduate programs are accredited by the American Assembly of Collegiate Schools of Business.

BACCALAUREATE LEVEL DEGREE PROGRAMS

General Requirements for Degree

Satisfactory completion of 120 academic semester hours. Of the 120 hours, business course credits may vary from a minimum of 60 to a maximum of 66, non-business course credits may vary from a maximum of 60 to a minimum of 54. The variance depends upon the major field chosen and the mixture of General and Business Electives. The requirements for graduation are:

		Semester Hours
General Distribution		40
I. English		6 (min.)
II. Fine Arts & Humanities		6 (min.)
III. Mathematics and Quantitative Methods		6 (min.)
IV. Natural Sciences		6 (min.)
V. Social and Behavioral Sciences		6 (min.)
Foundation Courses in Business		42
ACC 2001	Financial & Managerial Accounting I	(3)
ACC 2021	Financial & Managerial Accounting II	(3)
BUL 3112	Business Law I	(3)
COC 2201	Computers in Business I	(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)
GEB 2111	Business & Economic Statistics I	(3)
GEB 3121	Business & Economic Statistics II	(3)
MAN 3010	Principles of Management	(3)
MAN 3810	Introduction to Management Science	(3)
GEB 4511	Business Policy	(3)
MAR 3023	Basic Marketing	(3)

Major Areas*

15-20

(Accounting, Economics, Finance, General Business, Management, Marketing)

Electives sufficient to reach 120 hours.

MAC 2243 or the equivalent is required for all students enrolled in the College of Business Administration. This course is a prerequisite to many courses in the College and must be completed early in the student's program. A grade point average of 2.0 must be achieved in a major field for students to be certified for graduation.

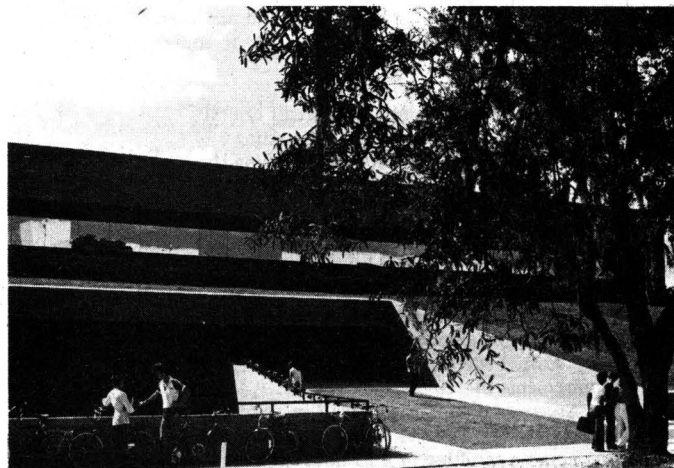
**Students wanting to major in any specific area should refer to that departments requirements.*

Admissions to the College of Business Administration

Undergraduate Programs

To qualify for admission a student must have been accepted by the University as a degree-seeking student, must have completed 45 semester hours, including MAC 2243 or the equivalent with a grade of "C" or better, and must be otherwise acceptable to the College. Beginning Fall 1983 additional requirements will be invoked by the College to limit enrollment to a level which is compatible with available resources. For information on these supplementary admission requirements contact the Office of Undergraduate Advising, College of Business Administration.

Ferguson Hall housing 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.

Student 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 pre-calculus mathematics, two semesters of accounting principles, two semesters of economics principles, and one semester of statistics.

Students pursuing associate degrees in terminal/career programs must be aware that some courses taken at the junior/community college may not be acceptable at the upper level institution toward baccalaureate programs. Students should avoid taking any courses at the junior 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.

Student Advising and Records

The Undergraduate Studies Office provides the following services for College of Business Administration students:

1. Academic advising and program information for all undergraduates.
2. Orientation for all undergraduate students applying for admission to the College of Business Administration. Such orientation is mandatory prior to acceptance.
3. Registration, drop/add, and general College of Business Administration and university policy information for business students, both graduate and undergraduate.
4. Evaluation of undergraduate transcripts of transfer students and maintenance of academic advising records on all admitted students.

Programs and Curricula**■ GENERAL BUSINESS ADMINISTRATION (GBA)**

Students with special objectives and career interests have the opportunity to develop an undergraduate program to meet these needs. Working closely with a faculty adviser, students may design an approved plan of study which will contain 18 to 24 hours of business courses beyond the undergraduate Business Core. No more than 9 hours of these courses may be in any single business discipline. The program shall also contain such non-business electives as will contribute to the academic objectives of the student.

■ ACCOUNTING (ACC)

The Department of Accounting offers an undergraduate degree, the Bachelor of Arts (B.A.), which prepares students for accounting careers in manufacturing; retailing; service organizations; federal, state, and/or local government as well as other not-for-profit entities. The B.A. degree also prepares students for entry into the professional degree program: The Master of Accountancy (M.Acc.). This professional program prepares the students for careers in public accountancy. Department advisers will assist students in designing programs to meet specific career objectives.

Requirements for the B.A. Degree

Students must complete 20 hours of upper level accounting in addition to requirements listed on page 65 of the current catalog. Specific course requirements outside the major field and not listed on page 65 are ENC 3310, Advanced Expository Writing, or its equivalent and MAC 2243, Elementary Calculus.

Required Accounting Courses (20 credit hours)*

ACC 3101	Intermediate Accounting I	(4)
ACC 3121	Intermediate Accounting II	(4)
ACC 3401	Cost Accounting and Control I	(3)
ACC 3730	Accounting Information Systems	(3)
ACC 4501	Federal Taxes I	(3)
ACC 4601	Auditing I	(3)
Total		(20)

* Business Communications, GEB 3211, may be substituted for ENC 3310. Students selecting this option can not also elect ACC 4521, Federal Taxes II, and meet the minimum graduation requirements of 120 semester credits.

Students planning to enroll in the M.Acc. program should take ACC 4521, 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 courses. Accounting courses taken by accounting majors on an S/U basis will not be counted toward the 120 hour graduation requirement. Independent Research, ACC 4914, 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., ACC 3101, ACC 3401, ACC 4501.

Students planning to prepare for the uniform CPA examination in the State of Florida are advised of the following significant change in the accountancy law. Applicants desiring to take the licensure examination to practice as a certified public accountant after August 1, 1983, (for the May 1984 exam) 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 Department of Accounting.

■ ECONOMICS (ECN)

Economics is one of the vital disciplines investigating the complex problems and relationships in modern society. Indeed, the very breadth of economics has led to major areas within the discipline, including labor economics, international economics, urban and regional economics, monetary economics, public finance, industrial organization, comparative economic systems, and the like. Students are grounded in economic theory and economic statistics to facilitate the investigation of the problems of human behavior, decision-making, and organizational effectiveness in these areas. Students majoring in economics are encouraged to supplement their programs with courses in other business and social science subjects. Management, finance, marketing, accounting, political science, psychology, sociology, and others contribute greatly to an enriched plan of study. A student may plan the best possible program to help him achieve his particular career objectives.

Similarly, a variety of courses in economics are designed to permit students majoring in the other disciplines to acquire the skills and insights provided in economics.

Requirements for the B.A. Degree

Within the 120 semester hour program as listed on page XX students must complete 18 hours of upper level economics beyond business core requirements.

The economics courses required are:

ECO 3203	Intermediate Income & Monetary Analysis	(3)
ECO 4303	History of Economic Thought	(3)
Additional Upper level economic courses		(12)

Students are encouraged to select 3000 level courses in several of the applied areas during their junior year. The remaining economics electives shall be selected from those 3000 and 4000 level courses that provide the type of program that best suits the student's interests and objectives. Additional flexibility in pursuing these interests is provided by the ECO 4905 and ECO 4914 courses. However, no more than 3 hours of credit may be earned in ECO 4905 and ECO 4914. Students interested in majoring in economics are encouraged to contact the academic advisers for more information about the program. In addition, the department maintains a file describing the varied career opportunities for economists in business, government, and education.

Requirements for a Minor in Economics

A student may minor in economics by completing 18 or more credit hours in economics as follows:

- (a) 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 and Monetary Analysis	(3)
- (b) In addition, a minor must include two or more upper level courses taught in the Economics Department (excluding the variable credit course ECO 4905, 4914, and 4935), bringing the total credit hours in economics to a minimum of 18. GEB 3121, Business and Economic Statistics II, or its equivalent, is acceptable for credit in a minor.
- (c) 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.
- (d) 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.
- (e) 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 the management of both large and small organizations. Students seeking a financial career in business, in financial institutions or careers in the field of insurance or real estate 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 faced by organizations in both the private and public sectors as well as in the domestic and multinational environment. 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 analytical tools and institutional environment for decision makers. It includes the concepts of capital budgeting, asset and liability management, and the examination of the economic, social, and regulatory impact upon the decision-making process.

Requirements for the B.A. Degree

Within the 120 semester hour program as listed on page 65, students must complete a minimum of 15 hours of upper level finance courses.

Required finance courses:

FIN 3233	Money and Banking	(3)
FIN 4414	Advanced Corporation Finance	(3)
FIN 4504	Principles of Investments	(3)
Minimum additional upper level finance hours		(6)
Minimum Total		<u>15</u>

■ MANAGEMENT (MAN)

The undergraduate degree in the Department of Management prepares students for entry level positions in Human Resource Manage-

ment, Industrial Relations, Production and Operations Management, Information Systems Management, 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.

As early as possible, students should consult with a faculty member in order to select a sequence of courses which satisfies the requirements for graduation through one of the special focus majors.

Requirements for the B.A. Degree:

With the 120 semester hour program as listed on page 65 students must complete 18 hours of Management.

All students are required to take MAN 3150—Organizational Behavior Analysis. In addition, students will take the courses offered in one of the special focus sequences as listed below.

Human Resource Management

MAN 3301	Personnel Management	(3)
MAN 3401	Industrial Relations	(3)
Plus 9 hours of electives to be selected from:		
MAN 4201	Organizational Theory and Management	(3)
MAN 4210	Organizational Development and Change	(3)
MAN 4930	Special Topics (Personnel)	(3)
MAN 4120L	Managerial Behavioral Laboratory	(3)
COM 3122	Interview Communication	(3)
INP 4404	Industrial Psychology	(3)

Industrial Relations

MAN 3301	Personnel Management	(3)
MAN 3401	Industrial Relations	(3)
Plus 9 hours of electives. At least 6 hours must be drawn from the following:		
MAN 4410	Labor Relations Law	(3)
MAN 4430	Seminar in Negotiations and Administration of Labor Agreements	(3)
ECP 3203	Labor Economics	(3)

Production and Operations Management

MAN 4504	Operations Management: A Systems Approach	(3)
MAN 4703	Simulation of Modeling Techniques	(3)
MAN 4930	Special Topics (Manufacturing Systems)	(3)
Plus 6 hours of electives		

Information Systems Management

GEB 3612	Information Systems: Analysis and Design	(3)
MAN 4930	Special Topics (Managing EDP Functions)	(3)
MAN 4930	Special Topics (Controlling EDP Functions)	(3)
Plus 6 hours of electives		

Small Business Management

MAN 4802	Entrepreneurship and Small Business Management	(3)
MAN 4804	Small Business Management Counseling	(3)
Plus 9 hours of electives		

■ 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

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. Degree:

Within the 120 semester hour program as listed on page 65, students must complete a minimum of 18 hours in marketing beyond MAR 3023.

Required Marketing courses:

MAR 3722 Marketing Management	(3)
MAR 3613 Marketing Research	(3)
MAR 4713 Marketing Management Problems	(3)
Additional upper level marketing courses	(9)
Total	(18)

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.

Regional Campuses

Due to limited enrollment and faculty, only the following majors are offered at the Regional Campuses:

Management Institute - College of Business Administration

The composition of the Management Institute has provided the College of Business Administration with a vehicle for making special services available to the community which could not be provided through the traditional academic program. In return for these services, the College receives the benefit of having real world applications for the knowledge and skills of its faculty and students.

This Institute, which was created in 1979, houses three Centers which are designed to provide teaching, research, and information to the public and private sector communities served by the University of South Florida. These Centers are:

1. The Center for Small Business Development;
2. The Center for Economic and Management Services;
3. The Center for Professional and Management Development;

The common objective of these Centers is to facilitate two-way communication between the University and the business/governmental communities to share knowledge and solve problems.

The Center for Small Business Development offers assistance in facilitating the initiation and growth of entrepreneurial forms of private enterprise. It offers workshops and individual consultation. A continued support system is provided for its clients to ensure successful implementation. Faculty members and students under faculty direction provide assistance on feasibility studies for new business organizations and for expansions of the product lines of existing business firms.

St. Petersburg

Accounting, Management, and General Business Administration

Sarasota

Accounting and General Business Administration

Fort Myers

General Business Administration

Students may declare other business majors while attending these locations, but must be prepared 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:

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.

Black Business Student's Organization—Encourages and supports black students in their efforts to achieve success in a demanding academic setting.

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 the economics faculty and all students interested in economics.

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.

Student Accounting Organization—Promotes accounting both as an academic discipline and as a profession.

Student Advisory Board—An organization whose representatives from each of the major fields advise the Dean of the College and the faculty on student attitudes and goals.

Student Finance Association—An organization for finance majors providing exposure to the many facets and opportunities in the field of finance.

The Center for Economic and Management Services provides human and material resources to assist private and public enterprises to deal with contemporary and regional problems. The Center has three primary means of providing service. The first is a data supply function which publishes a periodic economic data newsletter, offers census data through a Summary Tape Processing Center, assists other organizations in the development of data such as office space absorption information, and offers information on a wide range of national economic data.

The second means of providing service is an information retrieval function which employs traditional search procedures, but goes far beyond that in the innovative "library without books" approach to information retrieval. This service provides the sort of computer-based research techniques employed by corporate information centers, but which typically are not found in universities. In addition to teaching the College's students the kind of information which is available through non-traditional methods, the Center is able to serve smaller corporations and businesses who otherwise would not have ready access to this sort of information.

The third function of the Center for Economic and Management Services is to provide the accessibility to faculty and students under faculty direction to perform research for business and public agencies.

The Center for Professional and Management Development provides specialized credit and non-credit training and education opportunities to

public and private sector decision-makers. These opportunities take the form of conferences, seminars, and short courses. Programs on such topics as energy, government regulation, inflation, economic prospects for the future, and urban development are in demand. The Center also responds to the need in the community for courses of varying length to bring current development in their fields to professional people.

A fourth center, *The Center for Economic Education*, not part of the Management Institute, is jointly managed by the College of Education

and the College of Business Administration to provide human and material resources to facilitate the understanding of the American free enterprise system by school teachers and students. It offers access to audio-visual and print materials, in-service training in the use of programs such as trade offs, and economic education consultants. The Center facilitates interaction between business persons, teachers, and students.

Graduate Level Degree Programs

The College of Business Administration at USF offers a number of graduate programs, including the Master of Business Administration, Executive MBA, Master of Accountancy, Master of Arts degree in Economics, and Master of Science degree in Management. Evening and day courses are scheduled in such a way as to allow either part-time or full-time students to complete all program requirements within a reasonable length of time.

Applicants to graduate programs in the College of Business Administration should apply directly to the University Graduate Admissions office and must meet the University requirements for admission (see page 48). Applicants are expected to demonstrate the ability to perform successfully in graduate studies in business. General inquiries should be directed to Associate Dean and Director of Graduate Studies, College of Business Administration, University of South Florida, Tampa, Florida 33620.

Accreditation

All graduate programs in the College of Business Administration are accredited by The American Assembly of Collegiate Schools of Business (AACSB). The College is also a member of the Graduate Management Admission Council (GMAC).

Admissions

Admission to the graduate programs in the College of Business Administration is open to qualified men and women holding an undergraduate degree in arts, letters, science, humanities, engineering, or business from an accredited institution in the United States or from a recognized academic institution in a foreign country. In making admission decisions, the College does not favor any particular academic discipline nor does it make any distinction between applicants with experience and those coming directly from an academic program. The important factors besides the Graduate Management Admission Test (GMAT) and Grade Point Average (GPA) are the applicant's motivation in undertaking graduate work and the degree of focus in the applicant's career plans for the future. In addition, students are evaluated based on work or job-related experience, maturity, and leadership qualities. Students are admitted for either of the two semesters or the summer session, however, the Fall semester is the preferred entrance date for the student who requires all or approximately all of the Common Body of Knowledge courses. No new students will be accepted in the M.B.A. or M.S. in Management programs for the Summer Terms.

All applicants are expected to demonstrate the ability to perform successfully in graduate studies. To be admitted all students must meet the requirements below:

1. Applicants must possess an undergraduate degree (any discipline) from a regionally accredited institution and follow General University guidelines for applying for graduate study as outlined in the current USF Catalog.
2. Submit satisfactory GMAT scores for the M.B.A., M.Acc., and M.S. degree in Management. Applicants for the M.A. degree in Economics must furnish satisfactory GRE scores. Scores on both the GRE and GMAT must be those taken within five years preceding application. See information on specific criteria for admission. (page 48).
3. Possess acceptable undergraduate grade point average. Candidates offering grade point averages less than 3.0 (B) are expected to achieve higher than normal scores on admission tests.
4. Submit three letters of recommendation.

Application Deadline

Applicants for graduate programs in the College of Business Administration should have all application material including test scores in the Admissions Office by the following deadlines:

Fall Semester	May 15
Spring Semester	October 15
Summer Term	March 11

Specific Admission Criteria by program are as follows:

M.B.A. and M.S. Degree in Management

1. Minimum criteria—Applicant must score 1000 or higher using the formula: Undergraduate GPA (last two years) x 200 + GMAT total score. Admission in a selective process.
2. The applicant who has a minimum Undergraduate Grade Point Average of 3.0 and a minimum GMAT score of 475 is usually admitted without additional supporting data.
3. An applicant may offset a low UGPA with a higher GMAT score or vice versa. When the applicant scores between 1000 and 1075 on the above stated formula, additional evidence is required. Usually the applicant is invited for an interview and also asked to submit a written statement outlining goals and objectives, strengths and weaknesses. The applicant may also be asked to submit letters of recommendation in support of the application.

The Master of Accountancy

1. A score of 475 or higher on the GMAT, and
2. Cumulative 3.0 grade point average (B) in all work while registered as an upper division student working for a baccalaureate degree.
3. Cumulative 3.0 grade point average (B) in all accounting courses taken as an undergraduate.
4. Students who do not have the equivalent of an undergraduate degree in accounting at USF, including an accounting systems course, may be required to take additional courses. The number of additional courses deemed necessary will depend on the academic background of the individual student.

M.A. Degree in Economics

1. Score of 1000 or higher on the GRE, and
2. 3.0 grade point average (B) or better in all upper division undergraduate work.

Contact Persons

Students interested in specific programs within the college should contact the appropriate graduate studies adviser:

M.B.A.—Associate Dean Charles A. McIntosh, Jr., Director of Graduate Studies
 M.Acc.—Professor Robert M. Keith
 M.A. degree in Economics—Professor Howard Dye
 M.S. degree in Management—Professor Harold Schroder
 —or E. Hargis

Special Students

See "Special Student paragraph in Graduate Studies Section (page 49) for general instructions. The College of Business Administration will accept no more than nine hours of credit earned as a Special Student, to satisfy degree requirements, without the written permission of the Director or Graduate Studies in the College. To be eligible to register for graduate courses, he/she must meet the following conditions:

1. Be a graduate of a regionally accredited undergraduate institution.

2. Have a completed application on file with the Office of Graduate Admissions. This includes having the required academic transcripts.
3. Have an undergraduate GPA of 3.0 or better in the last two years of full academic study.
4. File a Special Student application with the College of Business Administration at least three weeks prior to the beginning of the semester.
5. Be approved as a Special Student by the Director of Graduate Studies, College of Business Administration. Approval is a selective process.

The Special Student status is usually approved for only one semester. The most common delay in an acceptance decision is the lack of GMAT scores. Special Students are expected to take the GMAT at the next administration following entry in this category.

Academic Standing

All Masters candidates are expected to maintain a cumulative grade point average of 3.0 (B) throughout their program. Failure to maintain the B average places the student on academic probation.

A full time student on academic probation for two consecutive semesters is subject to dismissal. The part time student on academic probation must bring his/her GPA to a cumulative 3.0 (B) in the next twelve credit hours of graduate work or be subject to dismissal.

■ THE MASTER OF BUSINESS ADMINISTRATION (M.B.A.) DEGREE

The Master of Business Administration (M.B.A.) is a professional degree designed to prepare graduates for managerial roles in business and not-for-profit organizations. Graduates will develop the necessary skills and problem-solving techniques that will permit them to make an early contribution to management and to eventually move into broad, general management responsibilities at the executive level. The program is designed to meet the needs of qualified men and women with degrees in the liberal arts, engineering, the sciences, and humanities, as well as those with prior preparation in business administration. The College makes no distinction in the selection process between applicants with experience and those coming directly from academic life. However, experience is a meaningful background which will permit the student to better understand the subject matter to be mastered.

The faculty utilizes various delivery systems in the classroom, namely, the traditional lecture/discussion, case method, simulation, model building and laboratory techniques. These methods emphasize an analytical, conceptual, and theoretical balance throughout the program which helps sharpen students' resourcefulness in sorting complex problems and selecting optimal courses of action. Students are given many opportunities to demonstrate their writing and verbal competency and improve interpersonal communication.

Program and Curriculum

The M.B.A. program requires a maximum of 60 semester hours and a minimum of 36 semester hours. The full-time student without course waivers will require two years (four semesters) to complete the program. Part-time students can complete all work within a reasonable time—approximately three years without course waivers. Students who have completed undergraduate courses in business and economics may receive course waivers and reduce their course load from the maximum requirement.

Courses are scheduled to accommodate both full-time and part-time students. All courses are at the graduate level. Students entering the program are expected to have sufficient competency in mathematics to include college algebra* and communication skills, written and verbal, to make the academic transition a smooth experience. Students that are deficient in any of these areas are expected to take the necessary courses during the first semester of study.

The Curriculum consists of:

The **Common Body of Knowledge** courses, known as the "Core": These courses are designed to provide the basic background in the several functional areas in order to prepare for more advanced studies. The

courses assume little or no prior knowledge in the field. Students having adequate previous preparation in any of these courses, except for Business Policy, may seek a waiver subject to the standards set by the faculty. The Integrative Administrative Business Policy course, GEB 6895, may not be waived. The conditions for waivers are explained more fully below.

Other Required Courses: These courses are extensions of certain "Core" courses wherein added depth and breadth are deemed essential to the business environment.

Elective Courses: Breadth is achieved within this cluster of courses and at the same time the student may develop one or more areas of concentration. "Breadth" means that the student must take at least 15 semester hours of equivalent of work beyond that in the Common Body of Knowledge outside of his field of concentration.

Integrative Course: All students are required to take a course in administrative business policy. The course is taken in the last sequence of courses to permit the student to integrate the subject matter acquired in earlier courses by the study of administrative processes under conditions of uncertainty including integrating analysis and policy determination at the overall management level.

Comprehensive Examinations: All students must satisfactorily complete a comprehensive examination. A six credit hour thesis is optional and may be taken as an elective.

M.B.A. Program

Common Body of Knowledge Courses:

GEB 6705	Financial Accounting for Managers	(3)
GEB 6716	Microeconomic Analysis	(3)
GEB 6725	Financial Management	(3)
GEB 6735	Social, Legal, Political Environment of Business	(3)
GEB 6745	Marketing Management	(3)
GEB 6756	Statistical Methods for Management	(3)
GEB 6757	Quantitative Methods for Operations Management	(3)
GEB 6775	Information Systems for Management	(3)
GEB 6836	The Management Process	(3)
GEB 6895	Business Policy	(3)
Sub-Total		30

Other Required:

ACC 6412	Management Accounting and Control	(3)
GEB 6717	Macroeconomic Analysis	(3)
Sub-Total		6

Electives

	24
Total Semester Hours	60

General Information

Students are encouraged to develop a field of specialization or concentration which may be in Accounting, Economics, Finance, Management, Marketing, International Business and Information Systems.

Constraints

1. Maximum program—60 semester hours
Minimum program—36 semester hours
2. To insure breadth within the program, each student must take at least 15 semester credit hours or equivalent or work beyond that in the Common Body of Knowledge and outside the field of specialization in two or more disciplines.
3. At least one international course must be included within the program.
4. Student must take at least one course within the program in each of the academic departments.
5. Students with an undergraduate degree in Accounting may not take GEB 6705 or ACC 6412 for graduate credit.

Waiver Policy

A reduction of the 60 semester credit hour program may be accomplished by waivers of the Common Body of Knowledge courses except for GEB 6895, Business Policy. The waiver of either ACC 6412, Management Accounting and Control or GEB 6717, Macroeconomic Analysis require the substitution of another course as an elective.

Waiver is a departmental decision usually based on: (1) transcript analysis if the student has completed a minimum of six semester hours (departments may require additional hours) in the fields, with a grade of "B" or better from an AACSB accredited school and completed within

* The USF course which meets this requirement is MAC 2243.

the last five years; or (2) pass a subject proficiency examination. the student.

International Business

Students are required to take at least one international business course in their program. The student may also obtain a concentration in the field by taking the several courses offered by the various departments.

Concentrations

Students are encouraged to have at least one area of concentration in their overall graduate programs. These concentrations may be in Accounting, Economics, Finance, Management, Marketing, and International Business and Information systems.

Thesis

Students may elect a 6 credit hour thesis subject to departmental approval in any of the areas of concentration of the College.

M.B.A. with Concentration in Finance

Students seeking a graduate education with a concentration in the field of Finance should enroll in the Master of Business Administration Program. In addition to the M.B.A. Core, students would choose a minimum of 9 elective hours in Finance. Topics of interest in the finance program include Corporate and Managerial Finance, Banking and Financial Institutions, Money and Capital Markets, Investments, International Finance, and Finance Theory. A thesis can serve as part of the elective course work; however, a thesis is not required. Student electing the M.B.A. with concentration in Finance should meet with the chairperson of the Finance Department at the beginning of their M.B.A. Program.

M.B.A. with Concentration in Marketing

Students seeking a master's degree with a concentration in Marketing should enroll in the M.B.A. Program. A concentration in Marketing requires a minimum of nine elective hours in addition to the Marketing Management foundation courses.

Course topics include: marketing research, sales management, promotional management, logistics and physical distribution management, international marketing and marketing strategy. A thesis (6 credit hours) can serve as part of the elective course work, however no thesis is required. Candidates with an undergraduate marketing major are particularly encouraged to consider the thesis option.

Students electing the M.B.A. with a concentration in Marketing should meet with the Chairperson of the Marketing Department at the beginning of their M.B.A. course work.

■ THE EXECUTIVE M.B.A.

The Executive M.B.A. is a two-year accredited program designed to meet the unique needs of both mid-career managers, who have demonstrated the potential to reach senior management positions, and senior managers, who want to significantly increase their personal and organizational effectiveness. The program provides an opportunity to broaden and enrich their management skills, to extend their knowledge of modern business techniques and to further develop their understanding of the social, political and economic forces that shape the business environment and influence top decisions.

Because managerial effectiveness in today's and tomorrow's dynamic, rapidly changing business environment requires more than excellent technical skills, the Executive M.B.A. is structured as an integrative program that will enhance the participant's ability to think across functional lines and better understand the whole enterprise in a competitive situation.

The first three semesters begin with a three-day residency session; thereafter, classes are scheduled on alternate Fridays and Saturdays. The one-day-a-week format allows the participants to continue carrying full job responsibilities while they study and master a broad range of managerial skills. The fourth semester starts with the alternate Friday-Saturday arrangement and concludes with a residency session.

The program leads to the academic degree of Master of Business Administration (M.B.A.) and consists of the following segments:

- Introduction to Strategy and Business Policy
- Managerial Decision Analysis
- Business, Government and Society Relations
- Financial Accounting
- Organizational Assessment and Design
- Introduction to Marketing Strategy

Managerial Accounting

Human Performance and Organizational Effectiveness

Management Information Systems

Macroeconomic Analysis for Managers

Operational Marketing

Financial Management I

Strategies for Organizational Change

Applied Research Project

Microeconomic Analysis for Managers

Marketing Decision Making

Financial Management II

The Administration of Human Resource Systems

Production and Operations: Systems Strategies and Policies

Business Problems Analysis

International Business

Capital Markets and Investments

Business Policy and Strategy

Taxation for Managers

Bargaining Behavior and the Management of Conflict

Admission Requirements

Applicants are considered for admission on the basis of individual application and interviews. Each applicant must be nominated for the program by his or her employer. Applicants are normally expected to have had a minimum of five years of significant managerial experience and be currently employed in a management position. A Bachelor's degree from an accredited institution is required for admission. Candidates will be expected to take the Graduate Management Admissions Test (GMAT) prior to admission to the program. For further information, please call the office of the Director of the Executive M.B.A. Program: (813) 974-4264.

■ THE MASTER OF ACCOUNTANCY (M.Acc.) Degree

Requirements for the Masters of Accountancy Degree:

The Master of Accountancy Program is designed to meet the increasing needs of business, government, as well as public accounting for persons who have professional training in accounting as well as background in such areas as quantitative methodology, economic analysis, and management science. Students completing the requirements for the M.Acc. Degree will have met the requirements to sit for the Uniform CPA Examination in Florida.

All students are required to satisfy the Common Body of Knowledge as indicated in the M.B.A. Program (page 70). This may be satisfied through completion of coursework in the various areas. The academic adviser will determine the specific courses and number of hours required. Students entering the program must have taken MAC 2244, Elementary Calculus II and ACC 4521, Federal Taxes II or ACC 5211, Advanced Accounting.

For the student who has the equivalent of an undergraduate major in accounting at USF, (i.e., 23 to 24 hours of accounting coursework excluding Elementary Accounting) the program consists of 36 semester hours. A minimum of 15 semester hours of the program is devoted to the study of professional accounting. Another 15 semester hours of the program consists of study in the related areas of financial management, economics, management science, quantitative decision models, the social, legal, and political environment of business, and business policy. The remaining 6 semester hours of the program are elected by the student in consultation with his/her graduate adviser. Elective courses taken in the area of accounting may not exceed 3 semester hours. Students enrolled in the M.Acc. program may not take ACC 5805, Contemporary Accounting Thought.

Required Courses are:

Accounting Courses (15 credit hours)

ACC 6511 Federal Tax Research and Planning (3)
(or ACC 6745, Systems Theory
and Quantitative Application, 3)

ACC 6811 Development of Accounting Thought (3)

Electives (at 5000 or 6000 level) (9) (15)

Business Courses (15 credit hours)

BUL 5665	Law and the Accountant	(3)	
ECO 6206	Aggregate Economics	(3)	
ECO 6115	Microeconomic Analysis	(3)	
FIN 6246	Advanced Money and Capital Markets	(3)	
GEB 6895	Business Policy	(3)	(15)

Electives (6 credit hours)

At least one of the elective courses must be taken outside the field of accountancy.			(6)
Total			(36)

At least two-thirds of the total program must be taken at the 6000 level.

■ THE MASTER OF ARTS (M.A.) DEGREE IN ECONOMICS

Requirements for the M.A. Degree:

The M.A. degree in Economics is offered by the College of Business Administration. Applicants should submit results of the Graduate Record Examination Aptitude Test and meet other University requirements specified on page 48. The primary requisites for success in graduate study are strong motivation, aptitude, and basic intellectual ability. An undergraduate major in economics is not required but a sound background in economic theory, mathematics, and statistics will permit completion of the master's program in the normal time span of one year.

The Master of Arts degree in Economics permits students to select one of three approaches. The first emphasizes terminal professional training to prepare the student for decision making and problem solving roles in business and other organizations. The second approach prepares the student for doctoral work and teaching in secondary and junior college educational institutions. In the third approach, students may emphasize public sector economics. The primary objective here is to provide the skills necessary for the performance of economic analysis and policy formulation in the public sector—particularly at state and local levels. The fields or economics stressed are public economics, urban economics, and industrial organization. Particular attention is devoted to such topics as planning, programming, budgeting, cost-benefit analysis, public revenue sources, issues in fiscal federalism, techniques of income redistribution, models of urban growth and development, intra-urban location patterns, analysis or urban social patterns and problems, anti-trust and other forms of government regulation business.

All three approaches involve preparation in economic theory and quantitative methods. Students in the professional programs then supplement these skills with courses in applied economics. Students preparing for doctoral studies normally take additional courses in economic theory, mathematics and statistics. Students selecting public sector economics emphasize applied economics. Work in other areas, particularly, the social sciences, may be an integral part of these programs. Research and the writing of a thesis may be incorporated into any of these approaches. The nature of thesis subject indicates the area of specialization of interest.

The economics department participates in the Junior College Teaching Program jointly with the College of Education as outlined on page 86.

Students must satisfy all University requirements listed on page 48. In addition, the department requires students to complete 30 hours of graduate credit selected with the approval of the graduate adviser of the department. At least 21 hours must be in economics. These 21 hours must include:

ECO 5424	Econometrics	(3)
ECO 6115	Microeconomics	(3)
ECO 6206	Aggregate Economics	(3)
ECO 6305	History of Economic Thought	(3)

Prior to clearance for the degree, each candidate must perform satisfactorily on a comprehensive examination.

■ THE MASTER OF SCIENCE (M.S.) DEGREE IN MANAGEMENT

Requirements for the Master of Science Degree

The M.S. program in Management has been designed to meet the needs of persons who aspire to enter the role of supervisor, director, or

manager. Most applicants have performed, or are performing, technical or functional roles, or mid-lower management roles in small or large public and private organizations and have chosen to pursue a career in managing.

The program aims to develop the scholarly knowledge, and the technical, managerial, and leadership skills required to perform as a competent manager in a modern organization. It focuses on operations and on project and organizational design and management, which are basic for managers who are directly involved in the production and delivery of goods and services. The program offers a special interest focus for applicants from the Health Care industry, in the public sector, as well as for those in the private sector.

The method of delivery optimizes opportunities for (1) interaction between participating students from each sector; (2) the development of managerial skills; and (3) the application of knowledge, skills and technology to ongoing management problems in the student's organization. Coursework includes a lecture-discussion format which focuses on the acquisition of knowledge and skills and a management laboratory which focuses on the integrated application of knowledge and skills for various courses to organizational problems.

The curriculum contains a total of 52 semester hours. It includes coverage of the Common Body of Knowledge, Advanced Management Courses and a thesis. Students who have completed the Common Body of Knowledge, or its equivalent (see waiver policy) should contact the coordinator regarding advanced placement.

Students admitted to the program normally begin their studies in the Fall semester each year. Applications for admission, including Graduate Management Admission Test (GMAT) scores, should be submitted to the Office of Admissions before April 30 to ensure sufficient time to conduct the admission process prior to registration for the Fall semester. Participating students will be enrolled in Section -011 (Common Body of Knowledge Courses) or Section -012 (Advanced Management Courses) depending upon their academic qualifications. Each section of courses takes three semesters to complete and will terminate at the end of the Summer Semester of each academic year. Classes are scheduled to meet for blocks of four or eight hours, one evening each week, or on alternative Saturdays.

All interested students should contact the M.S. Management Office, Department of Management, College of Business Administration, University of South Florida, Tampa, FL 33620 or phone (813) 974-4155.

The Program of Studies normally includes the following courses:
Year 1—27 Semester Hours

Semester I			
ACC 5315	Financial/Managerial Accounting	(3)	
GEB 6716	Microeconomic Analysis	(3)	
MAN6930	Managerial & Supervisory Skills	(3)	
Semester II			
FIN 6718	Governmental Financial Planning and Budgeting	(3)	
GEB 6745	Marketing Management	(3)	
GEB 6756	Statistical Methods for Management	(3)	
Semester III			
GEB 6735	Social/Legal/Political Environment of Business	(3)	
GEB 6757	Quantitative Methods for Operations Management	(3)	
MAN6930	Selected Topic	(3)	

Year 2—25 Semester Hours

Semester I			
MAN 6219	The Management of Organizational Development and Change	(3)	
MAN 6061	Organizational Theory and Measurement	(3)	
MAN 6911	Directed Research	(1)	
Semester II			
MAN 6569	Quantitative Applications for Management Decisions	(3)	
MAN 6409	Management of Conflict	(3)	
MAN 6971	Special Topics	(3)	
Semester III			
MAN 6971	Thesis	(3)	
GEB 6895	Business Policy	(3)	
MAN 6930	Special Topics	(3)	

Regional Campuses

Graduate courses as part of the Master of Business Administration Program are offered at all three regional campuses: St. Petersburg, Sarasota, and Fort Myers. All required Common Body of Knowledge Courses and a limited number of electives are offered at the St. Petersburg Campus. Normally, only required Common Body of Knowledge Courses are scheduled at Fort Myers and Sarasota. In order to complete the entire M.B.A. program, a candidate from Fort Myers or Sarasota should expect to take courses on the Tampa or St. Petersburg Campuses. Students at St. Petersburg Campus may want to take courses at the Tampa Campus to either accelerate their program or have a wider choice of electives.

■ GRADUATE BUSINESS ASSOCIATION

The Graduate Business Association (GBA) is composed of graduate students in the College of Business Administration. The goals of the GBA include:

1. To enhance the quality of education for graduate students in the College of Business.
2. To function as a liaison between graduate students and the administration/faculty.
3. To provide the framework necessary for continued student involvement at the administrative level in the academic affairs affecting graduate programs.

4. To facilitate career planning and placement.
5. To foster fellowship among graduate students.

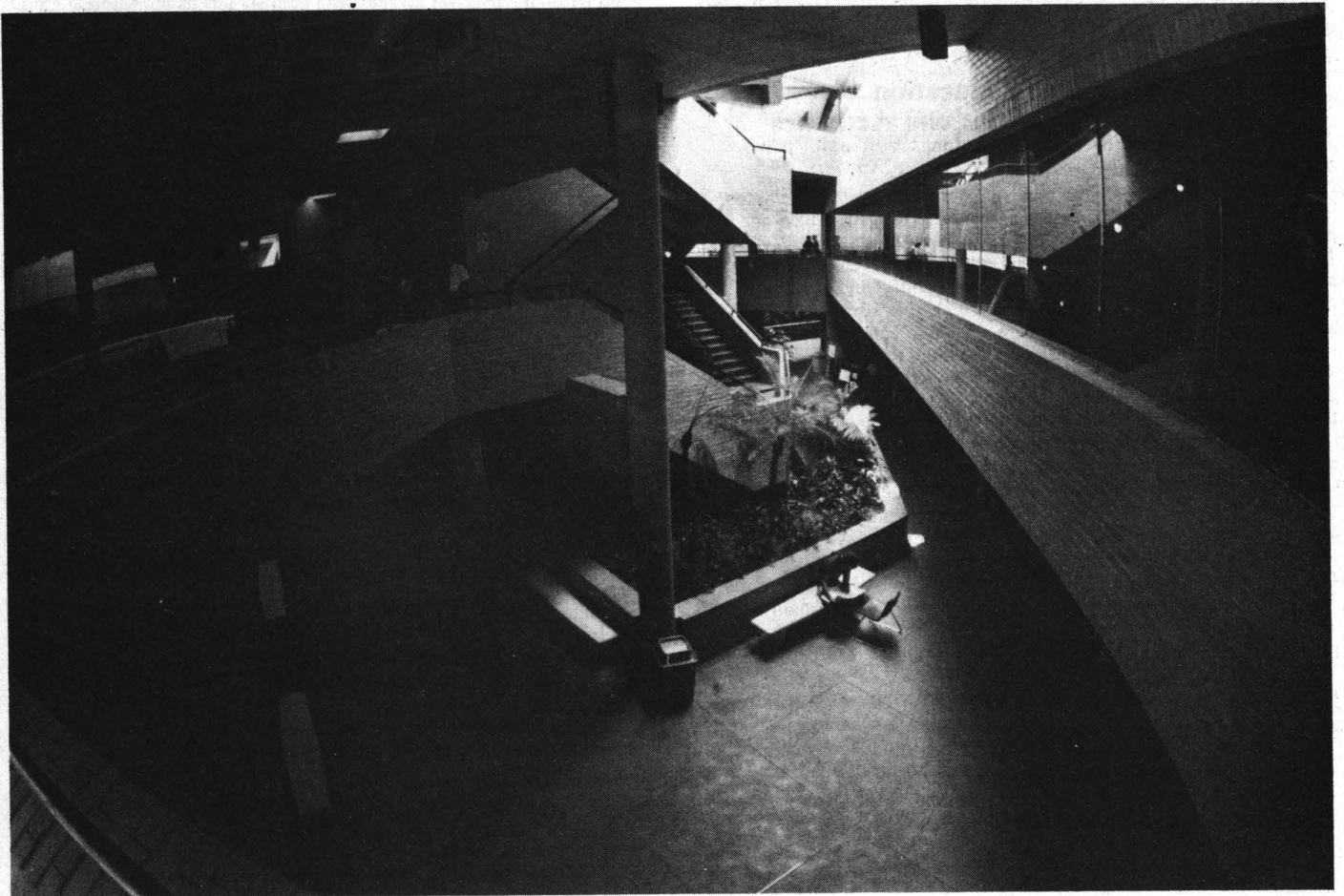
Graduate students are eligible for Beta Gamma Sigma national business honorary society.

Further information regarding the Graduate Business Association may be obtained from the Dean's Office in the College of Business Administration.

Financial Aid

Applicants may apply for various financial aid. Awards are made to exceptionally well qualified individuals. These awards are:

1. University Fellowships—Awarded on the basis of outstanding academic credentials. To be considered for Fellowships, students must have all application material in not later than *March 1*.
2. Loans—Apply to the University Financial Aids Office.
3. Other Financial Aids—Apply to the Director of Graduate Studies, College of Business Administration.
 - (a) graduate assistantships,
 - (b) scholarships (apply by April 1 for the following academic year), and
 - (c) tuition waivers—both in-state and/or out-of-state.
 Application for the above should accompany the application for graduate study and will be considered when all credentials are received by the College.





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.

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. It is the task of the College of Education to give leadership to the instruction in subject matter and process, which means the total teacher education program.

College of Education 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 membership consists of four officers (President, Vice President, Secretary-Treasurer, Secretary Assistant), representatives from the various areas in the College of Education, and seven Senators representing the College of Education. Elections are held annually in January and all education majors are eligible to vote for all officers and the representatives of their respective areas. Any student majoring or coded in the College of Education with a minimum GPA of 2.0 can be a candidate for election as an Officer, Representative or Senator.

Student National Education Association

The Student National Education Association is the professional organization that represents all the prospective teachers on the USF campus. As a member of SNEA, you also become a member of the Florida Education Association and the National Education Association. These organizations comprise the largest such group in the world.

Many benefits are available to you through the organization and, in addition, you are working with a club dealing with your main interest—education. All students in the field of Education, including freshmen, are encouraged to join this professional organization.

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.

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—"different"—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.

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 a national 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.

Student Guidance Organization (SGO)

The Student Guidance Organization is a Guidance Organization for graduate students presently enrolled in the Guidance Program. Social and professional meetings are conducted throughout the year. Members also participate in annual retreats and attend district and state meetings.

Mathematics Education Clinic

The Mathematics Education Clinic is mission-oriented in a broad sense in that it is primarily concerned with children and youth who evidence learning problems in mathematics. However, an important purpose of the clinic is one of obtaining hypotheses that can be studied to obtain generalizable professional knowledge to improve the teaching and learning of mathematics.

Clinical, correlation, normative and experimental approaches are used in the study of the etiology and symptomatology of mathematical learning disabilities. General models and specific teaching strategies are provided the classroom teacher and the student-clinician for carrying out effective diagnostic and prescriptive programs.

Close professional relations are maintained between the Mathematics Education faculty and the appropriate faculties in the College of Education whose interests and professional skills are related to the work of the Clinic.

Library Student Association (LSA)

LSA 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.

The Distributive Education Clubs of America (DECA)

The College Chapter of DECA is an integral part of the Distributive

Education 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 many activities of Collegiate DECA is required of undergraduate majors and is encouraged for graduate students.

BACCALAUREATE LEVEL DEGREE PROGRAMS

Admission to the College

While students admitted to the University are expected to have the qualifications to graduate, this does not necessarily mean they have the qualifications to become teachers.

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 upper level 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 60 semester hours.
4. An overall grade point average (GPA) of 2.0.
5. Students must submit a score from the American College Test (ACT) or Scholastic Aptitude Test (SAT) that was completed no longer than five years prior to their application. It is recommended that this test be taken not more than one year prior to the application deadline. Admission to the programs will be based upon the applicant's performance on either the ACT (minimum score of 17) or the SAT (minimum score of 835). Students who meet all other admission requirements but who do not achieve the ACT or SAT minimum test score may still be considered for admission as an exception.
6. 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, selected programs admit students only in specified semesters. Students should refer to the specific program descriptions for additional admissions information. Information regarding admission requirements for the program(s) of your choice may be obtained from the Student Personnel Office, College of Education, USF.*

*Approval of these program admission criteria is pending.

Performance Standards

Students admitted to Education programs are required to demonstrate basic skills in English and Mathematics. All students are required to take the basic skills test during the first semester of enrollment. Students who earn unsatisfactory scores on either test will be given an opportunity to undertake remediation, but must pass both tests by the end of the second semester of enrollment. Students who do not pass both tests by the end of the second semester of enrollment will not be permitted to continue.

Admission Deadlines to the College

The Physical Education program admits students only for Semester I of each year. The application deadline for Semester I is April 1 for this program.

Black Organization of Students in Education

The Black Organization of Students in Education was organized Quarter III, 1978. A constitution was written and submitted for approval. BOSE stands provisional as a university organization until confirmation.

Students applying for Elementary or Exceptional Child Education programs are encouraged to apply at least one month prior to the University deadlines, for the semester of intended admission.

Admission to Internship Experience

The 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 internship and seminar courses are:

1. Admission to the College of Education.
2. Completion of General Distribution requirements.
3. Completion of an application for internship before desired semester according to schedule below.
4. Completion of the professional education sequence and a minimum of two-thirds of specialization, varying with the program, and a minimum of 2.0 grade point average.
5. An overall 2.0 grade point average.
6. Successful completion of English and Mathematics proficiency exams. Other areas of examination vary with programs. See program for specific requirements.
7. Acceptance by a school approved by the College of Education and the Florida Department of Education.

Application for internship must be made prior to 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 15.

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 College of Education, other university, and special students to enroll in classes.

Students who are registered in a class but fail to attend classes during the first week may be dropped from the class roll.

College Requirements for Graduation

A student to be certified by the College of Education as having completed its requirements must have earned 120 semester hours credit, including the last 30 credit hours on campus, with a minimum overall grade point average of 2.0. An average of 2.0 or better also must be made in the student's professional education sequence and in his/her teaching specialization courses. Satisfactory completion of the internship is also required. 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.

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.

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.

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 6 hours of USF Army or Air Force ROTC credits.

The College of Education will not permit either USF lower level students or transfer students to transfer a "D" graded course work which is part of the professional core or specialization requirement. However, a "D" grade earned for such work taken after the student has been admitted to the College will be accepted for credit.

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 those necessary for graduation. Students wishing to graduate *and* to be eligible for teacher certification must complete all requirements as listed on current program checklists maintained in the Student Personnel Office.

All graduates who apply for initial regular certification on or after July 1, 1980 will be required to pass the written teacher certification examination. Additional information on this examination is available in the Student Personnel Office.

Programs Leading to the Baccalaureate Degree

The College of Education has programs leading to the Bachelor of Arts degree in the following fields:

Program	Department	Code
Art Education	Art Education	(ARE)
Botany Education	Mathematics, Science & Health Education	(BOE)
Business & Office Education	Adult & Vocational Education	(BTE)
Chemistry Education	Mathematics, Science & Health Education	(CHE)
Distributive and Marketing Education	Adult & Vocational Education	(DEC)
Elementary-Early Childhood Education	Childhood/Language Arts Education	(EEC)
Elementary Education	Childhood/Language Arts Education	(EDE)
English Education	Social Science/Letters Education	(ENE)
Emotional Disturbance Education	Exceptional Child Education	(EED)
Foreign Language Education + Health Education	Social Science/Letters Education	(FLE)
	Mathematics, Science & Health Education	(HES)
Humanities Education	Social Science/Letters Education	(HUE)

Industrial-Technical Education	Adult & Vocational Education	(EVT)
Mass Communications-English Education	Social Science/Letters Education	(MCE)
Mathematics Education	Mathematics, Science & Health Education	(MAE)
Mental Retardation Education	Exceptional Child Education	(EMR)
Music Education	Music Education	(MUE)
Physical Education	Professional Physical Education	(PET)
Physics Education	Mathematics, Science & Health Education	(PHE)
Science Education	Mathematics, Science & Health Education	(SCE)
Social Science Education	Social Science/Letters Education	(SSE)
Specific Learning Disabilities Education	Exceptional Child Education	(ELD)
Speech Communication-English Education	Social Science/Letters Education	(SED)
Zoology Education	Mathematics, Science & Health Education	(ZOE)
See Departmental Section for specific program requirements.		

+ In a single language, two foreign languages, or Foreign Language-English.

Teacher Education Programs

There are three distinct areas in the teacher educational 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: Freshman English (ENC 1101, and ENC 1104)
- Area II** Fine Arts and Humanities: Any course offered by the Department of American Studies, Art, Communication (excluding all LIN prefixes except SPC 2050, 3010, 3801), Dance, English, (excluding ENC 0000, 1101, 1104, REA 0105), Foreign Languages, Humanities, Liberal Studies, Music Philosophy (excluding PHI 3100), Religious Studies, Theatre, a minimum of six hours from two different departments.
- Area III** Mathematics and Quantitative Methods: MAE 3810, MAE 3811, MTG 3204 for any program requiring MAE 4310; a minimum of

six hours of courses offered by the Department of Mathematics and/or any computer service course (COC, COP, CDA) and/or any of the following courses: Business and Economic Statistics (GEB 2111, 3121), Logic (PHI 3100), Social Science Statistics (STA 3122).

- Area IV** Natural Sciences: A minimum of six hours of courses in Astronomy, Biology (including botany, microbiology and zoology), Chemistry, Geology, Physics and/or Introduction to Oceanography (OCE 3001).
- Area V** Social and Behavioral Sciences: (A minimum of 12 hours is required in Area V as specified below.)

- I. Behavioral Science
 - a) For all programs PSY 2012 and SOC 2000
- II. Social Science
 - a) For programs requiring SSE 4313, AMH 2010, 2020.
 - b) For all other programs a minimum of six hours of courses offered by the department.

ment (or programs) of Afro-American Studies, Gerontology, Anthropology, Criminal Justice, Geography, 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).

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 (35-45 credit hours)

The required courses in the professional education core are as follows:

EDF 3122	Learning and the Developing Child (for Elementary Majors)	(4)
	or	

EDF 3214	Human Development and Learning (for all other programs)	(3)
EDF 3604	Social Foundations of Education	(3)
	or	
EDF 3542	Philosophy of Education	(4)
EDG 4200	Curriculum and Instruction	(3)
	Methods Course(s)	(10)
	Internship & Seminar	(12)*
	Reading Requirement	(2-6)
	Educational Measurement Requirement	(3)
	Exceptional Child Education Requirement	(3)

*Elementary and Early Childhood internships are 20 semester hours.

3. Teaching Specialization Preparation (27-49 credit hours)

Course requirements in the area of teaching specialization vary accordingly to subject field of specialization. These specialization requirements are listed with the programs that follow in the Departmental Section.

MASTER'S LEVEL DEGREE PROGRAMS

Admission

Candidates for admission to graduate study must present satisfactory evidence of:

1. Undergraduate grade point average of 3.0 (B) minimum on the last half of the baccalaureate degree; or GRE aptitude score—1000 minimum.
2. Any additional requirements specified by the program.
3. Receive favorable recommendation from department chairperson.

Filing of Program

During the first term of graduate study the candidate for the master's degree must file a planned program of studies. This Graduate Planned Program is to be completed in consultation with the adviser. The completed report should be filed with the Coordinator of Graduate Advising in the College of Education.

Quality of Work

Candidates for the master's degree must maintain a 3.0 GPA. If at any time the student's GPA falls below the minimum, the student will be placed on probation. During the probationary status the student's academic progress will be reviewed to determine: 1) removal from probation; 2) continuation on probation. 3) drop from graduate program.

Residency

The candidate for the master's degree will be required to meet the residency requirement established by each program area. Consult the appropriate program area for details.

Comprehensive Examination

During the last term of enrollment, prior to completion of degree requirements, the candidate must perform satisfactorily on a comprehensive examination.

Process Core Examination

Graduate students with sufficient undergraduate background may take the Process Core Examinations after consultation with their advisers. Successful performance on the examination enables a student to waive the course requirement, but he/she must take elective courses in lieu of the hours required. The Process Core Examinations are in the Foundations of Measurement, Psychological Foundations and Social Foundations of Education. Graduate students on a Plan II Master's Program (see below) are not eligible to take the Process Core Examinations unless they have had a comparable course at the undergraduate level.

Master of Education Programs

ADMINISTRATION AND SUPERVISION

Requirements for the M.Ed. Degree (ESA):

This Master of Education (M.Ed.) degree is to prepare administrators and supervisors with organizational, management, and instructional leadership skills. Admission requirements include: (1) certification in a teaching field, (2) at least two years of successful teaching experience, (3) current USF graduate admission requirements, (4) College of Education requirements for admission to graduate study. Successful completion of the program leads to the M.Ed. degree and Florida certification in Administration and Supervision.

CURRICULUM AND INSTRUCTION

Requirements for the M.Ed. Degree (CUR):

This is a practitioner rather than a research degree. No specific

research and thesis will be required. The objective of this program is to prepare classroom teachers in instructional leadership and teaching skills through graduate study in a selected variety of courses in curriculum, methods, supervision, learning principles, human interaction, and areas of specialization which may include courses in other colleges.

To be admitted to this program, the applicant must be certified and have two years of teaching experience. The degree requires at least 33 semester hours with 60 percent or more at the 6000 level. Programs will consist of 11 semester hours of Process Core and will also contain EDG 6250. For all students the remainder of the (minimum) 8 semester hours of required concentration and (minimum) 12 semester hours in areas of specialization will be determined by and with the student and the student's committee. Successful completion of the program will lead to the Master of Education degree. The Master of Education in Curriculum and Instruction is available in most curricula area in which the M.A. is offered. See the Departmental section for more detailed descriptions.

Programs Leading to the Master of Arts Degree

Qualified persons may pursue graduate study in the following majors:

Program	Department	Code
Adult Education	Adult & Vocational Education	(ADE)
Art Education	Art Education	(ARE)
Business and Office Education	Adult & Vocational Education	(BTE)
Distributive and Marketing Education	Adult & Vocational Education	(DEC)
Elementary Education	Childhood/Language Arts Education	(EDE)
Emotional Disturbance Education	Exceptional Child Education	(EED)
English Education	Social Science/Letters Education	(ENE)
Foreign Language Education	Social Science/Letters Education	(FLE)
Gifted Education	Exceptional Child Education	(EGI)
Guidance & Counseling Education	Counselor Education	(EDG)
Humanities Education	Social Science/Letters Education	(HUE)
Industrial-Technical Education	Adult & Vocational Education	(EVT)
Library, Media & Information Studies	Library, Media & Information Studies Education	(LIS)
Mathematics Education	Mathematics, Science & Health Education	(MAE)
Mental Retardation	Exceptional Child Education	(EMR)
Music Education	Music Education	(MUE)
Physical Education	Professional Physical Education	(PET)

Reading Education	Reading Education	(RED)
School Psychology	Psychological & Social Foundations of Education	(PSE)
Science Education†	Mathematics, Science & Health Education	(SCE)
Social Science Education	Social Science/Letters Education	(SSE)
Specific Learning Disabilities Education	Exceptional Child Education	(ELD)
Speech Communication Education	Social Science/Letters Education	(SPH)

Junior College Teaching Educational Leadership

Biology	(B1090)
Business	(BUS90)
Chemistry	(CHM90)
Economics	(ECN90)
Engineering††	(EGP90)
English	(EGN90)
French	(FRE90)
Geography	(GPY90)
Geology	(GLY90)
History	(HTY90)
Mathematics	(MTH90)
Physics	(PHY90)
Political Science	(POL90)
Sociology	(SOC90)
Spanish	(SPA90)
Speech Communication	(SPE90)

See Departmental Section for specific program requirements

*French, German, or Spanish

†With concentrations in Biology, Chemistry, or Physics

††Engineering bachelor's degree required.

Program Plans of Study

Plan I

Plan I is a program of graduate studies designed for those with appropriate certification who desire to increase their competence in a subject specialization or receive professional preparation in one of the service areas of education.

A. Process Core (3-11 hours)

Students will take a minimum of one Process Core (Foundations) course. Substitution for the remaining courses may occur upon the advice of the Degree Program and concurrence of the College Program Policy Committee.

Process Core:

- a. EDF 6431
- b. EDF 6481
- c. EDF 6211 or EDF 6215
- d. EDF 6517 or EDF 6544 or EDF 6606

B. Current Trends Course in Teaching Specialization (3 hours)

C. Specialization (18 hours minimum)

The areas of specialization beginning below are suggested programs of study. Individual programs will vary with background, experience, and specific interest.

Plan II

Plan II is a program of graduate studies designed for the holder of a non-education baccalaureate degree who desires to meet initial certification requirements as part of a planned program leading to the Master of Arts degree. (This program is not available in the area of elementary education.)

A. Process Core (15 hours)

- a. EDF 6431
- b. EDF 6481
- c. EDF 6211 or EDF 6215
- d. EDF 6517 or EDF 6544 or EDF 6606
- e. EDG 5206

B. Current Trends Course in Teaching Specialization (3 hours)

C. Specialization (18 hours minimum)

This is an individually planned graduate major in the teaching field or in an appropriate College of Education program for K-12 specialists.

D. Internship (6 hours)

Enrollment will be EDG 6947 which involves planned observation and supervision by a member of the University faculty and a secondary school staff member. Inservice teachers are required to complete this assignment over two semesters. Students should have completed the professional requirement and 2/3 of the requirements in the area of specialization at the graduate level or an equivalency (using hours taken in the field of specialization taken at the undergraduate level to complete the 2/3 requirement).

Plan III

Plan III is a program of graduate studies for holders of a non-education baccalaureate degree who do not wish to meet teacher certification requirements in the State of Florida. The primary difference in this plan from Plan II is that students will not be required to take EDG 5206 and EDG 6947.

A. Process Core (11 hours)

- a. EDF 6431
- b. EDF 6481
- c. EDF 6211 or EDF 6215
- d. EDF 6517 or EDF 6544 or EDF 6606

B. Current Trends Course in Teaching Specialization (3 hours)

C. Specialization (18 hours minimum)

This is an individually planned graduate major in the teaching field or in an appropriate College of Education program for K-12 specialists.

ADVANCED GRADUATE EDUCATION

Goals

The College of Education is a professional school which offers advanced degree programs for a variety of specialized educational practitioners and for researchers. A major goal of the advanced graduate program is to contribute to the improvement of public schooling through the preparation of highly competent practitioners and preparation of researchers. All programs have as their central focus the development and the application of disciplined inquiry skills. Rigorous inquiry expands and improves the theoretical and the informational base upon which instructional and administrative practices are developed. From this orientation the following objectives are derived:

1. To foster disciplined and rigorous inquiry into educational practices, theories, and proposals.
 - a. To create a vigorous community of scholars having complementary proficiencies in inquiry.
 - b. To promote and to encourage conclusion-oriented inquiry to provide a base of verified concepts and theories for education.
 - c. To promote and to encourage decision-oriented inquiry as a means for extending the validity of findings from conclusion-oriented investigation and to aid in the development of verifiably better practices and policies in education.
 - d. To promote the development of alternatives to existing theories and practices. Such alternatives developed out of an a-political criticism of existing practices contributes to the development of an educational system which is responsive rather than wedded to practices on "non-educational" grounds.
2. To conduct training programs which will
 - a. Contribute to the maintenance of the proficiency of the membership of the system through in-service training and consultation.
 - b. Maintain the performance level in the systems and extend professional/personal opportunities by providing programs for personnel in teaching areas and in the areas of administration, supervision, other school services (guidance, school psychology, etc.), curriculum.
 - c. Train personnel to conduct different types of inquiry so that the system is self-correcting.
 - d. Produce personnel able to design training programs based on the results of both conclusion-oriented and decision-oriented inquiry so that school systems can be both self-sufficient and responsive.
3. To form a center that can assist educational clientele in the design of in-service training programs, in planning, in evaluation of projects, and in developing strategies for coping with other unanticipated problems related to schooling and education.

Programs

Ed.S. Program

The Education Specialist (Ed.S.) program offers specialization in Curriculum and Instruction with emphases in curricular areas such as Adult Education, Communication Education, Early Childhood Education, Exceptional Child Education, Guidance and Counseling Education, Library, Media, and Information Studies, Mathematics Education, Measurement and Evaluation, Reading and Language Arts Education, Science Education, and Vocational and Technical Education. The Ed.S. degree is also available in Educational Administration and Supervision and Educational Program Development. This degree consists of a minimum of 36 semester hours (includes 9 hours specialist project) beyond the master's degree and is more flexible in its requirements.

Candidates for admission to Ed.S. study must present satisfactory evidence of:

1. Undergraduate Grade Point Average of 3.0 (B) minimum on the last half of the baccalaureate degree; or GRE aptitude score—1000 minimum (Quantitative and Verbal), and a master's degree.
2. Three letters or recommendation.
3. Favorable recommendation from program chairperson.
4. An earned master's degree.*
5. Any additional requirements specified by the program.

*School Psychology is an exception to this requirement

Ed.D. Program

The Doctor of Education Degree is available with specializations in Educational Administration/Supervision and Educational Program Development. The focus of this degree program is on the improvement of educational practice. Program content and method designed to improve practice shall be planned with the context of four basic components: 1) Specialization, 2) Foundations, 3) Research, and 4) Language/Computer Science. Although research skills are recognized as being the basis of any doctoral program, the Ed.D. is considered less a research than a practitioner degree.

A partial list of existing professional roles for whom the Doctor of Education is designed is as follows:

1. Central Administration
 - a. Superintendent
 - b. Assistant Superintendents:
 - Finance
 - Federal Programs
 - Research
 - Personnel
 - Instruction
 - c. Supervisors of Services:
 - Guidance
 - Research
 - School Psychology
 - Staff Development
 - d. Supervisors of Instruction:
 - Elementary and Secondary
 - Reading
 - Mathematics
 - Social Studies
 - English
 - Art
 - Adult/Vocational Education
 - Exceptional Child Education
 - Physical Education
 - Library/Media
2. Building Personnel
 - a. Principals
 - b. Assistant Principals:
 - Administration
 - Curriculum
 - c. Deans:
 - Boys
 - Girls
 - d. Guidance Counselors
 - e. Curriculum Specialist
 - f. Learning Specialist
 - g. Departmental heads or team leaders
 - h. Teachers
3. Other Professional Roles
 - a. Private School Personnel
 - b. Junior College System Personnel
 - c. Coordinators of special local and State Educational Programs such as Adult Education and Rehabilitation Education
 - d. Personnel of municipal and county recreation programs, children's services programs, social welfare programs, and other community based organizations implementing informal education programs
 - e. Teacher-educators in institutions of higher learning
 - f. Business and Industry

Candidates for admission to Ed.D. study must present satisfactory evidence of:

1. Undergraduate grade point average of 3.0 (B) minimum on the last half of the baccalaureate degree; and GRE aptitude score—1,000 minimum (Quantitative and Verbal)
2. Certification in the field of study in which the candidate is seeking the Ed.D.
3. A master's degree from an accredited institution of higher learning
4. Three letters of recommendation
5. Favorable recommendations from the program coordinator
6. Any additional requirements specified by the program

Ed.D. Program Structure:

I. Major Area	
A. Specialization	25 semester hours
B. Dissertation	18 semester hours
II. Statistics/Measurement/ Research/Design	12 semester hours
III. Foundations	16 semester hours
**Total	71 semester hours

Ph.D. Program

The Doctor of Philosophy degree is available in Education. Specialization is in Curriculum and Instruction with research emphasis on problems related to specific areas of curriculum such as Early Childhood Education, Exceptional Child Education, Mathematics Education, Reading and Language Arts Education, Science Education and Communication Education. In addition to the curriculum content emphases, there are also emphases in Measurement and Evaluation, Guidance and Counseling Education, and Adult, Vocational, and Technical Education within the Curriculum and Instruction Ph.D. program. For information on additional emphases within the Curriculum and Instruction specialization, contact the Director of Graduate Studies in the College of Education.

Candidates for admission to Ph.D. study must present satisfactory evidence of:

1. A grade point average of 3.0 (B) minimum on all work attempted while registered as an upper level student working for a baccalaureate degree and a GRE aptitude score of 1000 (Verbal and Quantitative.)
2. Three letters of recommendation
3. Favorable recommendation from program chairperson
4. An earned master's degree
5. Any additional requirements specified by the program

Ph.D. Program Structure

I. Major Area	
A. Specialization	18 semester hours
B. Cognate Area*	11 semester hours
C. Dissertation	18 semester hours
II. Statistics/Measurement/Research Design	12 semester hours
III. Foundations	12 semester hours
**Total	71 semester hours

*Supporting courses outside area of specialization.

**Post master's semester hours.

COLLEGE OF EDUCATION DEPARTMENTS AND PROGRAMS

The College of Education is organized into 15 departments. Each department has one or more programs which are listed alphabetically and by

degree level 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 aimed at preparing teachers and leaders in the various fields of Vocational Education. Certification programs leading to the Bachelor of Arts (B.A.) degree are: Business and Office Education, Distributive and Marketing Education, and Industrial-Technical Education. Qualified persons may pursue graduate study through the Master of Arts (M.A.) degree in the following majors: Adult Education, Business and Office Education, Distributive and Marketing Education, and Industrial-Technical Education. The Master of Education (M.Ed.) degree is available for an individual who holds certification in Adult or Vocational Education including Home Economics and Agriculture Education, and who has completed required teaching experience. The degrees of Doctor of Philosophy (Ph.D.) and Doctor of Education (Ed.D.) are granted in recognition of high attainment in a specific field of knowledge.

**ADULT EDUCATION****Requirements for the M.A. Degree (ADE):**

1. In consultation with the graduate adviser, a program will be planned which will include a minimum of 32 credit hours. The process core requirements consist of 12-14 credit hours in:

EDF 6431 EDF 6481

EDF 6211 or EDF 6215

and one of the following:

EDF 6606, EDF 6517, or EDF 6544

Specialization requirements of 16 credit hours in Adult Education are designed to provide competencies in organization and administration, supervision, adult learning characteristics, curriculum development, program planning, methods of teaching, and research techniques as each of these relate to adult education programs. Generally, specialization courses will be selected from the following, depending upon the individual's background of experience:

ADE 4360	ADE 5385	ADE 6380	EVT 5190
ADE 5160	ADE 6080	ADE 6387	EVT 6563
ADE 5161	ADE 6197	EVT 4065	EVT 6930

2. Requirements in a related area may include a concentration of courses in one of the following areas: psychology, sociology, guidance, administration, complementary basic, or a vocational field.
3. A thesis or review paper may be approved in lieu of certain course work with the permission of the graduate adviser.

BUSINESS AND OFFICE EDUCATION**Requirements for the B.A. Degree (BTE):**

The Business and Office Education program offers concentrations in *Office Administration* and *Office Technology*.

Students should complete a program in the Specilization Area with a concentration in either *Office Administration* or *Office Technology*.

Specific basic competencies in the specialization are required. Competency examinations should be scheduled as soon as possible after selecting business and office education as a major. This requirement applies to all transfer as well as lower level students.

In the Professional Education and Teaching Specialization Areas, no course work lower than a "C" will be accepted. Student must earn a 2.5 overall grade point average in all course work.

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, BTE 4364, and BTE 4369.

General Distribution (40 cr. hrs.):

Recommended selections which are particularly appropriate to the specialization are:

Area II-SPC 2050, MUT 1001, ENC 3011

Area III-COC 3300

One of the following: GEB 2111, MAC 2242, or STA 3122

For Office Administration concentration:
GEB 3121

Area V-WST 2010

Professional Education Requirements (39 cr. hrs.)

EDF 3214	EDG 4200	*BTE 4948	RED 4360
EDF 3604	*BTE 4364	BTE 4936	EVT 4540
or	*BTE 4360	BTE 4940	**EVT 4065
EDF 3542			
EDF 4430			

*These courses must be taken as a block in the semester immediately prior to the supervised teaching or business field experience.

**This course is required for vocational certification in Florida.

Specialization Requirements (47-48 cr. hrs.)

Office Administration Concentration

Accounting (2 courses)
Economics (2 courses)
Typewriting Competencies
(Theory + 50 CWPM)
Shorthand Theory
Competency
Elective(s)

Office Technology Concentration

Accounting (1 course)
Economics (1 course)
Typewriting Competencies
(Theory + 70 CWPM)
Shorthand Theory
(Theory + 80 WPM)
Elective(s)

Needed for Both Concentrations

Administrative Office
Management
Business Communications
Business Law
Business Machines

Principles of Management
Office Occupations Proc.
Intro. to Computers
Office Information Processing

Requirements for the M.A. Degree (BTE):

In consultation with the graduate adviser, a program will be planned which will include a minimum of 32 credit hours at the graduate level. In addition, students entering the program who have not yet met competency requirements for business education certification will complete course work in any needed competency area. Students who have not previously completed the undergraduate qualifying competency examination will schedule this examination no later than the first term of enrollment. This degree may be completed with a thesis option.

1. Process core requirements include (11 semester hours):

EDF 6431 and EDF 6481
EDF 6211 or EDF 6215

and one of the following:

EDF 6606 EDF 6517 or EDF 6544

2. A minimum of 16 credit hours in the specialization area of Business and Office Education is required. Specialization courses include:

BTE 5171 BTE 6386 EVT 6563
BTE 5245 BTE 6387 Thesis
BTE 6385 BTE 6944

3. Selected courses from which to choose in Vocational and Adult Education:

ADE 5385 EVT 5367 EVT 6386
ADE 6197 EVT 6300 EVT 6926
EVT 5190 EVT 6385 EVT 6930

4. Selected courses in one related area such as Guidance, Exceptional

Child Education, Business Administration, Junior College, Administration or Supervision (3-8 semester hours).

5. Graduate instructional improvement courses are required as listed in individual student programs.

Requirements for the Ed.S., Ed.D., or Ph.D. Degrees:

These degrees are available with emphasis in the Business Education curricular area. (The Ed.S. and Ph.D. degrees are offered through Curriculum and Instruction; the Ed.D. degree through Educational Administration/Supervision or Educational Development.)

DISTRIBUTIVE AND MARKETING EDUCATION

Requirements for the B.A. Degree (DEC):

Professional Education Core (35 credit hours):

DEC 4362	DEC 4940	EDG 4200	EDF 3604
DEC 4382	EDF 3214	EVT 4540	or
DEC 4936	EDF 4430	RED 4360	EDF 3542

Specialization (34 credit hours):

ACC 2001	DEC 4941	EVT 5366	MAR 3023
DEC 4174	EVT 4065	MAR 4403	

Elect: 6 Semester Hours from the following:

MAR 4153	MAR 4203	MAR 4343	MAR 3722
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Plus electives in Education or Business Administration and Marketing as approved by Distributive and Marketing Education adviser to bring the specialization total to at least 34 hours.

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 they are in attendance as a Distributive and Marketing Education major, 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 required professional activities of the USF Collegiate Chapter of the Distributive Education Clubs of America, which is an integral part of the Distributive and Marketing Education teacher preparation curriculum.

Requirements for the M.A. Degree (DEC):

1. In consultation with the graduate adviser, a program will be planned which will include a minimum of 30 credit hours. Required courses are:

EDF 6431, and EDF 6481

EDF 6211 or EDF 6215

and one of the following:

EDF 6606, EDF 6517, or EDF 6544.

2. Appropriate College of Business Administration courses in marketing, management, economics, finance, and accounting for Distributive Education teacher certification (15 credits maximum).
3. Specialization requirements of 11 credit hours in Distributive Education are designed to provide competencies in administration, supervision, curriculum development, program management, methods of teaching and research techniques as each of these relate to distributive education programs. Generally, specialization courses will be selected from the following, depending upon the individual's background of experience:

ADE 5385	DEC 5185	EVT 5367	EVT 6386
DEC 4382	DEC 6945	EVT 6300	EVT 6926
DEC 4941	EVT 4065	EVT 6385	EVT 6930
DEC 5175	EVT 5190		

4. Selected courses in a related area such as Business Administration, Administration, Supervision, Guidance, Exceptional Child Education (3-8 credit hours).

■ INDUSTRIAL/TECHNICAL EDUCATION

Requirements for the B.A. Degree (EVT):

Enrollment in the Industrial-Technical Education program is restricted to persons with employment experiences qualifying them to teach Industrial, Technical, or Health Occupations.

Special provision is made for students to satisfy four (4) of the required six (6) years of work experience in a specific occupation by completing an Associate of Science degree program in a technological specialty from one of the State Community Colleges or successfully completing an appropriate occupational competency exam.

Acceptability of work experience will be determined by the State Department of Education, Division of Certification, Tallahassee, Florida.

Students may validate up to 30 semester hours of credit through the Occupational Competency Testing Program.

In addition to the professional core requirements, students must complete 12 semester hours in Adult and Vocational Education as follows:

Required:

EVT 4065

Electives: 9 hours selected with adviser approval from the following:

ADE 5385	EVT 4176	EVT 5366
EVT 4084C	EVT 4061C	EVT 4254
EVT 4263C	EVT 4367	

In addition students must meet the General Distribution Requirements of 40 credit hours.

Requirements for the M.A. Degree (EVT):

Plan I—Before being admitted to the degree program, a prospective student must have met the work experience and professional preparation requirements for certification in Industrial, Technical, or Health occupations. In addition to the process core requirements of

EDF 6431, and EDF 6481

EDF 6211, or EDF 6215

and one of the following:

EDF 6606, EDF 6517, or EDF 6544

specialization requirements must include

EVT 6948 and EVT 6930.

Courses totaling a minimum of 32 credit hours will be a part of the student's program which will be planned with the graduate adviser for industrial-technical education.

Related electives (1-11 credit hours). See areas of specialization listed above.

The **Plan II** program in Industrial-Technical Education is designed primarily for non-certified teachers. The candidate is required to complete additional professional education courses

EDG 5206, and EDG 6947

which are in excess of the normal Process Core requirements. A student will be advised of other courses which he must complete. Master's degree candidates wishing to be certified must meet the state's minimum certification requirements in the area of specialization.

Department of Art Education

The Art Education Department offers baccalaureate and graduate degree programs designed to meet certification requirements as outlined in the following program descriptions.

■ ART EDUCATION

Requirements for the B.A. Degree (ARE):

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. Student must attain a minimum of a "C" grade in Art Education and Studio Art courses.

The following courses constitute a program of study:

Art Education (16 Credit hours)

ARE 3044	ARE 4260	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 3400	ART 3701
ART Studio Electives approved by adviser		

Plus the following:

ARH 4450

Six to seven hours from Music, Dance, Theatre which will apply towards Humanities under General Distribution requirements.

Requirements for the M.A. Degree (ARE):

In consultation with a graduate adviser, a student may develop a program in art education with a specialization in one of three areas:

- Studio/new media
- Art Administration, Supervision & Curriculum Innovation
- Research Methods for Art Education

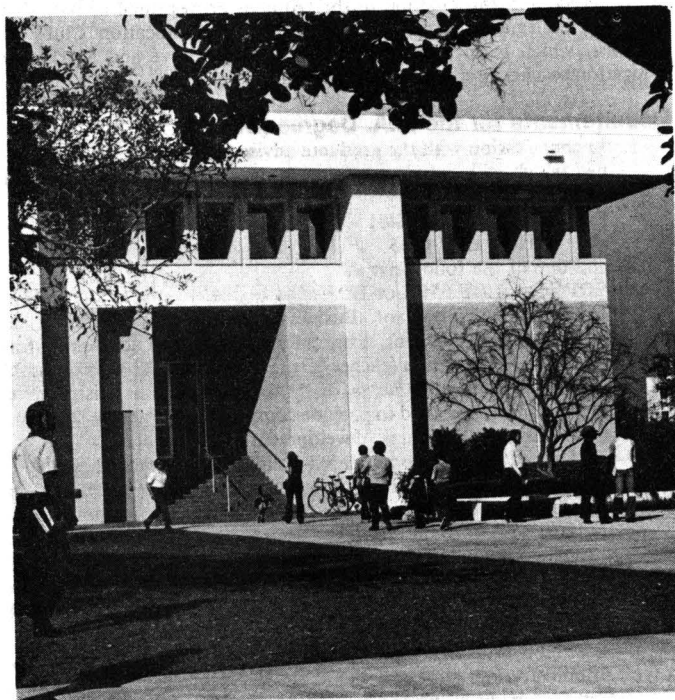
A portfolio or slides or recent creative work must be submitted prior to admission into the program. The departmental requirements for all degree seeking candidates are:

Art Education (12 credits: ARE 6262, ARE 6706, ARE 6844)

Art Studio (8 credits minimum)

Art History (4 credits minimum)

The remainder of credit hours, totaling a minimum of 36 may relate to one of the three area of specialization. An innovative master's paper or project developed under the guidance of a faculty committee is required before graduation.



Department of Childhood/Language Arts Education

The Childhood/Language Arts Education department has the responsibility for the development and supervision of programs leading to the Bachelor of Arts degree in Elementary/Early Childhood Education and Elementary Education at the undergraduate level. At the graduate level, the department coordinates the M.A. degree in Elementary Education; Ed.S. and Ph.D. degrees in Curriculum and Instruction with emphasis in Early Childhood and Elementary Education; the Ed.D. degree in Program Development with specialization in Elementary Education.

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 school settings 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 nursery school 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 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.

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.

Students desiring to complete either of these certification programs on a part-time basis are advised to contact the Student Personnel Office in the College of Education for additional information.

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 Chairman	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 12 semester hours)

ELEMENTARY EDUCATION

Requirements for the B.A. Degree (EDE):

The major consists of 26 semester hours of elementary specialization courses as well as the 45 semester hours required in the Professional Core for a total of 71 hours required to complete the program. Students are assigned to a specific sequence of courses to be followed each semester beginning in the first semester of enrollment. Included in the Professional Core for the Elementary Education major are the following:

EDF 3122
EDF 3604
or
EDF 3542

EDG 4200 Elementary section only; to be taken concurrently with EDE 4941
EDE 4301 Methods

Internships

EDE 4941 Internship Level I—Four semester hours in the first semester of program enrollment
EDE 4942 Internship Level II—Six semester hours to be completed in the senior year.
EDE 4936 Senior Seminar—To be taken concurrently with EDE 4940
EDE 4940 Full-Day Internship

Reading Requirements

RED 4310
RED 4515

Measurement Requirements

All students must complete a three semester credit hour course in measurement and evaluation as specified

TOTAL: 45 hours

In addition to the Professional Core the student will complete the following elementary specialization courses:

ARE 4313	LAE 4414	MUE 4315
HLP 4460	MAE 4310	SCE 4310
LAE 4314	MAE 4311	SSE 4313

TOTAL: 26 hours

Elementary Specialization Total: 71 hours

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.

Requirements for the M.A. Degree (EDE):

This program requires full certification as an elementary teacher for admission. Students pursuing the master's degree in elementary education are required to present credit in the following courses: EDE 6305, EDG 6935, RED 6116. A minimum of 33 hours is required. The student will choose from one of the following areas of emphasis:

A. Elementary Curriculum Emphasis: At least three courses must be selected from:

ARE 6358	LAE 6616	SCE 6616	SSE 6617
LAE 6415	MAE 6116		

Additional work is available through consent of the adviser as part of a planned program.

B. Language Arts Emphasis: The following are required:

LAE 6301	LAE 6415	LAE 6616	RED 6516
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C. Supervision Emphasis: Required courses are:

EDA 6061	EDS 6050	EDS 6930
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D. Early Childhood Emphasis: Prerequisites are EEC 4203, EEC 4706, or equivalent certification. Courses in the program include:

EEC 5406	EEC 5926	EEC 6405
EEC 5705	EEC 6261	

E. Elementary School Mathematics Emphasis: Individually planned emphasis to include four courses from the following:

MAE 5636C	MAE 6637	MAE 6356	MAE 6549
MAE 6116	MAE 6338	MAE 6548	

Additional work in related areas may be planned with the adviser.

F. Social Studies Emphasis: SSE 6617 and any four courses from:

SSE 6117	SSE 6445	SSE 6795
SSE 6354	SSE 6647	SSE 6939

ELEMENTARY/EARLY CHILDHOOD EDUCATION

Requirements for the B.A. Degree (EEC):

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 an Elementary/Childhood Education specialization of 33 hours, as well as 45 hours of the Professional Core, for a total of 78 semester hours. The Elementary and Elementary/Early

Childhood Education Professional Core are identical in sequence and content.

EDF 3122	or	EDG 4200
EDF 3604	EDF 3542	EDE 4301

Reading Requirements:

RED 4310
RED 4515

Internships:

EDE 4941	EDE 4936	EDE 4940
EDE 4942		

Measurement Requirements:

See Elementary program listing.

Professional Core Total: 45 hours

The Elementary/Early Childhood specialization courses are as follows:

ARE 4313	HLP 4460	MUE 4315
EEC 4203	LAE 4414	SCE 4310
EEC 4303	MAE 4310	SSE 4313
EEC 4706	MAE 4311	

Total: 33 hours

Total Elementary/Early Childhood: 78 hours

Students are advised that the Elementary/Early Childhood specialization will require an enrollment of more than the traditional 4 semesters of the junior and senior year in order to complete the program specialization courses and the required sequences of internships.

Requirements for the Ed.S. Degree:

The Childhood Education/Language Arts Department offers the Education Specialist (Ed.S.) degree in Curriculum and Instruction with specialization in both Elementary Education and Early Childhood Education. Candidates for admission to Ed.S. study must meet general admission requirements stated in the catalog as well as those listed below:

1. Early Childhood Education

a. Admission

- (1) Grade point average of 3.5 in post-baccalaureate work
- (2) Graduate Record Exam (GRE) score of 1000 on Aptitude
- (3) Three (3) years experience in programs for young children

b. Program of Studies

- | | |
|--|-----------------|
| (1) Early Childhood Specialization and related courses | 24 hours |
| (2) Project | 9 hours |
| (3) Electives | 3 hours |
| Total | 36 hours |

c. Comprehensive Examination

Candidates for the Ed.S. degree are required to demonstrate mastery in Early Childhood Education on the written and oral comprehensive examinations.

2. Elementary Education

a. Admission

- (1) Eligibility for certification in Elementary Education
- (2) Two or more years of successful work experience with children
- (3) One degree must be in Elementary Education
- (4) Be recommended for approval by the program faculty

b. Program of Studies

- | | |
|---|-----------------|
| (1) Elementary Education Specialization and related courses | 24 hours |
| (2) Project | 9 hours |
| (3) Electives | 3 hours |
| Total | 36 hours |

Requirements for the Ed.D. Degree:

The Childhood Education/Language Arts Department offers the Doctor of Education (Ed.D.) degree in Educational Program Development with specialization in Elementary Education. The degree is designed

to provide educators with an opportunity to pursue further the study of a variety of academic areas and to become familiar with the formulation and evaluation of exemplary elementary curricula and programs.

a. Admission

In addition to meeting the University and College admission requirements, the applicant must meet the following departmental requirements:

- (1) Have a Master's degree in Education from an accredited University or College with a GPA of 3.5 or better.
- (2) One degree must be in Elementary Education.
- (3) Have current Elementary certification.
- (4) Have two or more years successful work experience in programs for children and submit evidence to indicate that the applicant has a commitment to the area.
- (5) Be recommended for approval by the Elementary Education Advanced Graduate Faculty Committee.
- (6) Submit three letters of recommendation from persons knowledgeable about the candidate's professional competencies and accomplishments.

b. Program of Studies

- | | |
|--|-----------------|
| (1) Elementary Education Specialization | 25 hours |
| (2) Dissertation | 18 hours |
| (3) Foundations, Curriculum, and related areas | 16 hours |
| (4) Statistics, Measurement, and Research | 11 hours |
| Total | 70 hours |

Requirements for the Ph.D. Degree:

The Childhood Education/Language Arts department offers the Ph.D. degree in Curriculum and Instruction with specialization in both Elementary Education and Early Childhood Education. Candidates for admission to either specialization must meet general catalog requirements for admission to the Ph.D. degree as well as the additional requirements listed below:

1. Early Childhood Education

a. Admission

- (1) Grade point average of 3.5 in post baccalaureate coursework
- (2) Graduate Record Exam (GRE) score of 1100 on the Aptitude.
- (3) Minimum of three (3) years experience in programs for young children.

b. Program of Studies

- | | |
|---|-----------------|
| (1) Early Childhood Education concentration | 18 hours |
| (2) Dissertation | 18 hours |
| (3) Cognate | 11 hours |
| (4) Measurement/Statistics | 12 hours |
| (5) Foundations | 12 hours |
| Total | 71 hours |

2. Elementary Education

a. Admission

- (1) Eligibility for certification in Elementary Education.
- (2) Grade point average of 3.5 in post-baccalaureate work.
- (3) Recommendation of program faculty.
- (4) One degree must be in Elementary Education.

b. Program of Studies

- | | |
|--|--------------------------|
| (1) Foundations and Curriculum | 12 hours |
| (2) Statistics/Measurement/Research design | 12 hours |
| (3) Elementary Specialization | 18 hours |
| (4) Dissertation | 17 hours |
| (5) Cognate area | 11 hours |
| (6) Language/Computer Science | no course credit |
| Total | 71 semester hours |

Department of Counselor Education

The Department of Counselor Education offers graduate programs leading to the Master of Arts (M.A.) degree in Guidance and Counseling, the Education Specialist (Ed.S.) degree in Curriculum and Instruction with specialization in Guidance and Counseling, and the Doctor of Philosophy (Ph.D.) degree in Curriculum and Instruction with specialization in Guidance and Counseling. The general purpose of these programs

is to prepare students to become competent counseling professionals—practitioners, supervisors, educators, or researchers—in a variety of settings.

Students in this department represent a broad spectrum of undergraduate majors, of vocational experiences, of age levels, and of career aspirations. Some intend to work in educational institutions—public and

private—at the elementary, secondary, or college level. Others wish to seek counseling careers in social and vocational agencies, in mental health or rehabilitation facilities, in drug and alcohol abuse treatment programs, in corporate and industrial settings, or in private practice.

■ GUIDANCE AND COUNSELING

Requirements for the M.A. Degree:

In addition to meeting the University and College requirements, applicants to the Guidance and Counseling program must present three letters of recommendation, a personal statement of professional goals, and must have an interview with a member of the Counselor Education faculty.

Applications for admission are processed each semester. The deadline for all requirements to be met is four weeks before the end of the semester preceding the term in which the applicant expects to begin the program. The applicant should contact the Counselor Education department to ascertain deadline dates, to obtain instructions regarding the letters of recommendation, and to arrange for an interview.

Plan I and Plan III

Plan I is for students who hold teaching certification. Plan III is for those who are not certified and who wish to earn a master's degree but are not interested in school certification.

A. Process Core Requirements (minimum of 11 hours):

1. EDF 6431 or EDF 7437
2. One of the following:

EDF 5136	EDF 6213	EDF 6217
EDF 6120	EDF 6215	
3. EDF 6354
4. One additional Foundations course

B. Specialization Requirements:

Elementary School Guidance Emphasis (27 hours):

- | | | |
|----------|----------|---------------------|
| EGC 6606 | EGC 6464 | EGC 6830 |
| EGC 6225 | EGC 6509 | EGC 6935 (1 credit) |
| EGC 6306 | | |

Three hours minimum of elective credit from the following courses:

- | | | |
|----------|----------|----------|
| EGC 5101 | EGC 6772 | EGC 6905 |
| EGC 6105 | | |

Secondary and Adult Guidance Emphasis (28 hours):

- | | | |
|----------|----------|-------------------|
| EGC 6006 | EGC 6435 | EGC 6835 |
| EGC 6225 | EGC 6510 | EGC 6935 (credit) |
| EGC 6306 | | |

Three hours minimum of elective credit from the following courses:

- | | | |
|----------|----------|----------|
| EGC 5101 | EGC 6772 | EGC 6905 |
| EGC 6105 | | |

Plan II

Plan II is for students who do not hold teaching certification and who desire certification as counselors in public schools:

A. Process Core Requirements (minimum of 11 hours):

1. EDF 6431 or EDF 7437
2. One of the following:

EDF 5136	EDF 6213	EDF 6217
EDF 6120	EDF 6215	
3. EDF 6354
4. One of the following:

EDF 6517	EDF 6544	EDF 6606
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B. Specialization Requirements:

(Same as Plan I)

C. Additional Requirements (9 hours):

- | |
|----------|
| EDG 5206 |
| EGC 6948 |

The M.A. program in Guidance and Counseling has no full-time residency requirement. A student who is employed on a full-time basis is limited to eight hours per semester. An exception is made only with permission of the student's academic adviser.

Requirements for the Ed.S. Degree

The Educational Specialist Program in Curriculum and Instruction with specialization in Guidance and Counseling is designed to improve the skills and competencies of practicing counselors. The program comprises 35 semester hours and can be completed in two years by part-time students through evening course work. Students will be admitted once per year, at the beginning of the Fall semester. The application procedures

must be completed by May 15. In addition to meeting the University and College requirements for admission to Ed.S. programs, applicants must meet the following departmental requirements:

1. A master's degree in Guidance and/or Counseling or a master's degree in another field. The following courses or their equivalents must be completed prior to admission: (1) Principles of Guidance or an overview course in a related field; (2) Appraisal Procedures; (3) Informational Service; (4) Counseling Theories; (5) Group Theories; (6) Practicum in Counseling.
2. One year post-master's degree experience as counselor in a professional setting.
3. Three letters of recommendation.
4. An interview with a member of the departmental faculty.
5. An audio-tape recording of a recent counseling session conducted by the applicant.
6. A personal statement submitted by the applicant on his/her professional background, interests, and goals.

The departmental office will offer additional information on the application procedure.

The Ed.S. program (35 semester hours) includes the following courses:

A. Counselor Education (minimum of 17 hours):

- | | | |
|----------|----------|----------|
| EGC 6105 | EGC 7437 | EGC 7935 |
| EGC 6772 | EGC 7446 | |

B. Research (minimum of 12 hours):

1. EDF 7407
2. Research Project/Thesis:

EDG 6971 (9 hours)

C. Cognate Area/Minor (minimum of 6 hours):

(to be determined jointly by student and adviser)

The Ed.S. program has no full-time residency requirement. The course work listed under Counselor Education (A) is to be taken in sequence. Other course work is to be planned in consultation with the student's academic adviser.

Requirements for the Ph.D. Degree

The formal designation of this degree is Doctor of Philosophy in Curriculum and Instruction with specialization in Guidance and Counseling. The academic program is fully aimed at the area of specialization in counselor education. It is designed to provide advanced preparation for counselors, supervisors of counseling and guidance programs, counselor educators, and researchers in counseling and guidance. The program comprises 75 semester hours.

The Counselor Education department admits doctoral students once a year, at the beginning of the Fall semester. Since applications are carefully evaluated by the departmental admissions committee over a period of time, students are encouraged to apply early in the year and the entire application process must be completed by May 15. In addition to the University and College requirements for admission to Ph.D. programs, applicants have to meet the following departmental requirements:

1. A master's degree in guidance and/or counseling from an accredited institution or a master's degree in another field. The course work must have included the following prerequisites or their equivalents: (1) Principles of Guidance or an overview course in a related field; (2) Appraisal Procedures; (3) Informational Service; (4) Counseling Theories; (5) Group Theories; (6) Practicum in Counseling; (7) Comparative Guidance and Counseling.
2. A minimum of one year of counseling experience gained in a professional setting after earning the master's degree.
3. A grade point average of 3.5 at the master's level in addition to a minimum of 1000 aptitude score (quantitative and verbal) on the GRE.
4. Three letters of recommendation from former employers, supervisors, or professors. The letters should address themselves to the applicant's personal characteristics, ability, and motivation for advanced graduate study, and professional leadership in the field of counseling and guidance.
5. Two personal interviews with faculty members of the Counselor Education Department to be arranged by appointment at the request of the student.
6. An audio-tape recording of a recent counseling session with a client from the applicant's current setting.
7. A personal statement submitted by the applicant relative to his/her professional background, interests, and goals. Both the evidence of professional commitment and the quality of writing competence will be critically evaluated.

The Ph.D. Program (75 semester hours) includes the following courses:

- | | |
|--|-----------------------------|
| A. Foundations: | 12 sem. hours |
| To be selected from advanced graduate level courses | |
| B. Measurement, Statistics, Research Design: | 12 sem. hours |
| EDG 6407 | EDF 7408 |
| EDF 7409 or an elective from advanced graduate level courses | |
| C. Counselor Education: | 22 sem. hours |
| EGC 6772 | EGC 7446 |
| EGC 7437 | EGC 7935 |
| | EGC 7894 |
| | (8 semester hours required) |

D. Cognate Area/Minor:

11 sem. hours

E. Dissertation:

18 sem. hours

The minimum curricular requirements include: (a) at least two years of academic work beyond the master's degree (it usually takes longer); (b) at least one academic year of residency on the Tampa campus of the University of South Florida. Residency is to be defined as a minimum of two courses of not less than six hours of graduate work per semester.

Department of Educational Leadership

The Department of Educational Leadership prepares personnel for positions in Educational Administration/Supervision. The major purpose of these programs focuses on the improvement of practice. Program content in the specialization component of these degrees is founded in the functions of administration where relationships between tested practice and applied theory are stressed. Three degrees are offered in Educational Administration/Supervision: the degree of Master of Education (Plans I and III), the Education Specialist Degree, and the Doctor of Education Degree.

The Department also offers a Master of Arts degree in Junior College Teaching in cooperation with the other colleges in the University.

ADMINISTRATION AND SUPERVISION

Requirements for the M.Ed. Degree (ESA):

Admission

Application for admission to the program is made in the Office of Admissions. Admission requirements include:

1. Certification in a teaching field (except Plan III students).
2. At least two years of successful teaching experience (exception Plan III students).
3. Current requirements for admission to graduate study at U.S.F.
4. Current requirements for admission to graduate study by the College of Education.
5. Approval from the Department of Educational Leadership.

Program

The program consists of a minimum of 38 credit hours. Typically, the students' program will consist of the following:

1. **Process Core** (6 credit hours)
EDF 6431 and one other Foundation course
2. **Administration** (16 credit hours)
EDA 6061 EDA 6931 EDA 6262
EDA 6106 EDA 6242 EDA 6945
EDA 6232
3. **Supervision** (8 credit hours)
EDS 6050 EDS 6239
4. **Curriculum** (8 credit hours)
EDG 6250 EDG 6695 EDM 6235
EDG 6693 EDG 6251 ESE 6215
EDG 6694 EDE 6205

Requirements for the Ed.S. and Ed.D. Degrees:

Admission

Ed.S. Requirements:

1. A minimum GRE of 1000, or a minimum GPA of 3.0 in the last two years of undergraduate study, or a master's degree from an accredited institution;
2. Certification in Administration/Supervision
3. Screening by the Educational Leadership Department.

Ed.D. Requirements:

Admission to the Ed.D. can be gained according to one or two options:

1. by way of successful completion of the Ed.S. course work; or
2. by direct admission to the Ed.D. as described below.

Option 1—(by way of Ed.S.)

Once a student has completed a minimum of 30 hours of course work in the Ed.S. (Administration/Supervision) program, he/she may apply for admission to the Ed.D. program according to the following requirements:

1. A minimum of a 3.5 GPA in the Ed.S. course work;

2. A minimum of 3.0 in each of the following courses

EDF 7407 and EDG 6931;

3. Favorable review by the departmental committee.

Option 2—(direct admission)

1. A minimum GRE of 1000;
2. A master's degree from an accredited institution;
3. *Either* a GPA of 3.0 or more in the last two years of undergraduate study *or* a GPA of 3.5 or more in the master's degree;
4. Certification in Administration/Supervision;
5. Screening by the Educational Leadership Department.

Applicants should contact the Educational Leadership Department and complete a preliminary application prior to making application to the Graduate School.

Program

The major components of study in the Ed.S. and Ed.D. degree programs are:

I. Specialization in Educational Administration Supervision

Required courses

Electives

Project/Dissertation

II. Foundations

Social Foundations

Psychological Foundations

Curriculum

III. Measurement and Statistics

IV. Computer Science

These programs are organized on the cluster concept. Students are selected by cluster at designated times and block scheduled through the first thirty hours of instruction. Operationally, this means that groups of students enter their study programs jointly in geographically convenient locations. Whereas students are counselled individually, most course selections are made by components as a cluster in consultation with the Leadership Department.

Application for admission is initiated by completing a preliminary application form that can be obtained from the Leadership Department.

JUNIOR COLLEGE TEACHING PROGRAM

Requirements for the M.A. Degree:

Areas of specialization in the Junior College Program include:

- | | |
|---------------|----------------------|
| Biology | Geology |
| Business* | History |
| Chemistry | Mathematics |
| English | Physics |
| Engineering** | Political Science |
| Economics | Sociology |
| French | Spanish |
| Geography | Speech Communication |

*Business specialization requires, in addition, a minimum score of 475 on the GMAT plus a minimum of 3.0 GPA for the last two years of baccalaureate study.

**Engineering bachelor's degree required.

Admission

Because of the unique character of the Junior College Program, which integrally involves two colleges of the University, there are admission and advisory regulations which go beyond those listed in the section dealing with Graduate Study.

Application for admission to the program is made in the Office of Admissions. Action on all applications is the joint responsibility of the

two colleges. Admission to the program requires a minimum score of 1000 on the combined verbal and quantitative aptitude tests of the Graduate Record Examination.* Duplicate sets of the student's complete record will be on file in both offices, with the College of Education charged with the responsibility of making official recommendations for the granting of the degree to the Vice President for Academic Affairs and to the Registrar.

*Business specialization requires, in addition, a minimum score of 475 on the GMAT plus a minimum of 3.0 GPA for the last two years of baccalaureate study.

Program

Consists on a minimum of 32 credit hours, plus an internship of 6 hours.

1. Specialization

Typically, the student's program will include 24-30 credit hours of graduate work in a field of specialization. The specialization sequence to be completed will be worked out in consultation with a designated major field adviser. This "typical" program is based on the assumption that the student has an undergraduate background in his specialization area which is roughly equivalent

to the pattern of the appropriate University of South Florida major. Students admitted without such preparation may be required to correct deficiencies. By the same token, the unusually well prepared student may be permitted to take fewer courses in his specialization area, substituting approved electives from other fields of study.

2. Professional Education

Typically, the student's program will include approximately 14 hours of graduate work in professional education, as in the example below. Additional hours may be required if the student's background is weak in relevant areas.

EDH 6061

EDH 6938

EDG 6947

Typically, the internship will consist of full-time supervised teaching for one semester or part-time teaching for two semesters. At least one-half of the internship must be in the junior college, the other half being left to the discretion of the student's adviser. The internship follows the completion of professional education course-work.

Department of Educational Measurement and Research

The Department of Educational Measurement and Research provides core courses in educational measurement for the undergraduate programs in the College of Education. It also provides core courses in educational measure-

ment, statistics, and research for the graduate and advanced graduate programs in the College of Education. M.Ed., Ed.S., and Ph.D. degrees, with an emphasis in Measurement and Evaluation, are also offered.

Department of Elective Physical Education

The Department of Elective Physical Education provides the student with opportunities for identifying, developing and assessing various forms of vigorous movement which can contribute to the student's educational experience and personal growth.

Courses include well-known sports as well as individual assessment activities and special courses to prepare the interested student with skills and techniques applicable for conducting or directing community activities related to sport and movement.

Department of Exceptional Child Education

The Department of Exceptional Child Education programmatic structure is designed to prepare personnel to plan and implement educational programs for students requiring specialized education services. Personnel training programs are designed for the Baccalaureate, Masters, Educational Specialist, and Doctoral level candidates. Areas of training include mental retardation, gifted and talented, emotional disturbance, physically handicapped, 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. Masters and Specialist level programs emphasize the development of leadership personnel to serve in consultant and supervisory capacities in public school and private settings. Doctoral level training further sharpens the theoretical and practical skills of experienced practitioners to assume positions focusing on research, teacher training, and significant leadership roles.

There are different entrance requirements at each 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 student.

The initiation and continued 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 by all baccalaureate degree candidates.

■ EMOTIONAL DISTURBANCE

Requirements for the B.A. 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.

A. Specialization Requirements (36 hours minimum)

CAP 4100	EEX 4940	one of the following
EED 4011	LIS 4302	ARE 4313
EED 4321	or	HLP 4460
EED 4941	LAE 4414	MUE 4313
EEX 3010	MAE 4310	SCE 4310
EEX 4221	SPA 4004	SSE 4313
EEX 4936		

Requirements for the M.A. Degree (EED):

Plan I—For students holding valid teaching certification in exceptional student education or elementary education.

(a) *Basic course in introduction to exceptional student education* (EEX 3010 or EEX 6936 or EEX 4070) required to enter program.

(b) *Process Core*: (7 hours minimum)

EDF 6431

EDF 6215

(c) *Specialization*: (25 hours minimum)

EED 6201 EED 6943 EEX 6732

EED 6211 EEX 6201 EEX 6934

EED 6222 EEX 6362

Additional courses, including electives, are planned jointly by the student and his/her adviser. Students who have not completed an undergraduate Elementary or Exceptional Child Education degree must complete the following courses or their equivalents:

MAE 4310 RED 4310 RED 4515

Plan II—The student with a non-educational baccalaureate degree may meet initial certification requirements by completing a Plan II program. The course of study includes the requirements of the Plan I program plus EDG 5206 and EDG 6947.

■ GIFTED

Requirements for the M.A. Degree (EGI):

The Gifted Child Teacher Training program provides advanced training for certified teachers to work with the gifted and talented children and to work with other teachers on a consultant or teacher-leader basis.

Emphasis is on development of specific skills to:

1. identify the gifted
2. make an individual diagnosis of cognitive and affective strengths and weaknesses
3. modify the educational program to develop the gifted child's potential
4. consult and guide the gifted student, family, and teachers to understand and develop the students' unique abilities.

Plan I—For students holding valid teaching certification

(a) *Basic course in introduction to exceptional student education* (EEX 3010 or EEX 6936 or EEX 4070) required to enter program.

(b) *Process Core: (7 hours minimum)*

EDF 6431 EDF 6215

(c) *Specialization (31 hours minimum)*

EDE 5391 EGI 5232 EGI 6416
EGI 5051 EGI 5942 EGI 6936

■ MENTAL RETARDATION

Requirements for the B.A. Degree (EMR)

The planned program includes:

A. *Specialization Requirements (minimum 41 hours)*

EEX 3010	EMR 4321	one of the following
EEX 4221	LIS 4302	ARE 4313
EMR 3011	or	HLP 4460
EMR 3800	LAE 4414	MUE 4315
EMR 4310	MAE 4310	SCE 4310
EMR 4313	SPA 4004	SSE 4313

Requirements for the M.A. Degree (EMR):

Plan I—For students holding valid teaching certification in exceptional student education or elementary education

(a) *Basic course in introduction to exceptional student education* (EEX 3010 or EEX 6936 or EEX 4070) required to enter program.

(b) *Process Core: (7 hours minimum)*

EDF 6215 EDF 6431

(c) *Specialization (27 hours minimum)*

EEX 6201	EEX 6732	EMR 6303
EEX 6222	EEX 6934	EMR 6052
EEX 6324		

Plan II—Process Core Requirements (12 hours)

At least 30 hours are allocated to the area of specialization with an emphasis on Mental Retardation.

Prerequisites:

EMR 3011	EMR 4321	MAE 4310
EMR 4310	EVT 3063	RED 4310
or	or	
EMR 4313	PET 6645	

Basic Course Requirements:

EEX 6934	LAE 6415
or	or
equivalent	LIS 6586

Courses required:

EDF 6217	EEX 6201	MAE 6549
EDG 6947	ELD 6115	RED 6546
EED 6201	ELD 6141	RED 6548
or	EEX 6934	
EPH 5051		

■ SPECIFIC LEARNING DISABILITIES

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

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

A. *Specialization Requirements (minimum 40 hours)*

EDF 3228	LIS 4302	one of the following:
EEX 3010	or	ARE 4313
EEX 4221	LAE 4414	HLP 4460
ELD 4011	MAE 4310	MUE 4313
ELD 4110	MAE 4545	SCE 4310
ELD 4944	SPA 4004	SSE 4313

Requirements for the M.A. Degree (ELD):

The course of study is designed to prepare the student to become a more effective learning disabilities specialist.

Plan I—For students holding valid teaching certification in Exceptional Child Education

(a) *Basic course in introduction to exceptional student education*

(EEX 3010 or EEX 6936 or EEX 4070) required to enter program.

(b) *Process Core: (7 hours)*

EDF 6215 EDF 6431

(c) *Specialization: (31 hours)*

EDF 6217	EEX 6732	MAE 6549
EEX 6201	ELD 6115	RED 6548
EEX 6222	ELD 6141	

Plan II—Process Core requirements (12 hours)

At least 33 hours are allocated to the area of specialization with an emphasis on Specific Learning Disabilities.

Prerequisites:

EEX 4221	MAE 4545	RED 4515
MAE 4310	RED 4310	SPA 2001

Basic Course Requirements:

EEX 6934	or
LAE 6415	LIS 6586
or	MAE 6548
LIS 6203	

One Elective chosen from the following:

ARE 4313	MUE 4315	SSE 4313
HLP 4460	SCE 4310	

■ EXCEPTIONAL CHILD EDUCATION

Requirements for the Ed.S. Degree

The College of Education offers an Educational Specialist (Ed.S.) degree in Curriculum and Instruction with an emphasis in Exceptional Child Education. Candidates for admission to the Ed.S. program must meet the entrance requirements of the College of Education plus the following:

1. Certification in exceptional student education;
2. One year of teaching experience in exceptional student education.

Program Requirements

Project	9 hours
Exceptional Child Education Specialization	14 hours
Electives	14 hours
	37 hours

Courses will be selected by the student and advisor from those available at the 6000 and 7000 level. Six hours of 5000 courses may be included with approval of the department chairpersons.

Comprehensive Examination

During the last term of enrollment, the candidate must perform satisfactorily on a written comprehensive examination.

Requirements for the Ph.D. Degree

The Exceptional Child Education Department offers the Ph.D. in Curriculum and Instruction with specialization in Exceptional Child Education. In addition to the University and College criteria for admission to the Ph.D. program, applicants will meet the following departmental requirements:

1. Three years teaching experience in exceptional student education;
2. Grade point average of 3.5 at the masters level;
3. Recommendations of the Department Chairperson.

Program Requirements

The Ph.D. candidate's program of study is individually planned by the student and a faculty advisory committee and approved by the Department Chairperson. The program will include the following:

Dissertation	18 hours
Exceptional Child Education	18 hours
EEX 7341 4 hours	EEX 7911 4 hours

At least 10 hours from the following:

EEX 7203 4 hours	EEX 7841 1-4 hours
EEX 7301 1-4 hours	EEX 7930 1-4 hours
Cognate Area	11 hours
Statistics/Measurement/Research	12 hours
Foundations/Curriculum	12 hours
Language/Computer Science	non-credit
	71 hours

Department of Library, Media, and Information Studies

Goals and Objectives

The Library, Media, and Information Studies department prepares students to assume a wide variety of service and leadership roles in academic, public, school, and special libraries, and assists them to develop the professional attitudes necessary for their involvement in the social, intellectual, cultural, economic, and scientific interests of the community where they will work, regardless of the type of library in which they will be employed; encourages students and graduates to establish high standards of intellectual inquiry through scholarship and research; promotes the advancement of librarianship through research and publication; provides an intellectual environment in which the student may develop creative self-direction; impresses upon students the social significance of libraries and related agencies in a democratic society and the importance of maintaining freedom of expression as guaranteed by the First Amendment to the Constitution of the United States.

The goals are supported by the following departmental objectives:

1. Providing a common core curriculum as well as specific learning experiences to enable students to meet the needs of groups they will serve in libraries.
2. Preparing students to apply the benefits of technology in the rapidly changing field of librarianship.
3. Establishing conditions and providing opportunities for students to make choices, solve problems, and arrive at appropriate judgments and decisions relating to their future roles as librarians and media specialists.
4. Teaching students to make maximum use of the resources and facilities of libraries in the development of programs to support the goals, interests, and needs of the clientele their libraries will serve.
5. Combining practical with theoretical knowledge through experiences.
6. Working cooperatively with students in organizing and conducting workshops, institutes, and symposia to provide new and/or continuing educational experiences.
7. Providing a system for the continuous evaluation of the total program of education for librarianship by students as well as faculty members and the restructuring of the program's curriculum when changes must be made to meet the needs of libraries.
8. Helping students to understand the concept that education is a continuing process.
9. Promoting professionalism among faculty and students by encouraging research and publication and participation in the activities of professional organizations.
10. Making students aware of the contributions of library and related organizations to librarianship and to library education.

LIBRARY, MEDIA AND INFORMATION STUDIES

Requirements for the M.A. Degree (LIS):

Criteria for admission and graduation include those general criteria specified by the College of Education for admission into master's level degree programs. In addition, the Library, Media, and Information Studies department asks for an interview with the program chairperson, the program's admission committee, or an individual designated by the chairperson. The department also requires that each applicant submit a typewritten statement expressing personal reason(s) for wanting to pursue graduate study in librarianship. Graduation requirements include the completion of four core courses—LIS 5404, LIS 6608, LIS 6271, and LIS 6735, plus a planned program of electives developed for each student in conjunction with his/her adviser. The minimum length of a program is ordinarily 39 semester hours.

Requirements for the Ed.S. Degree:

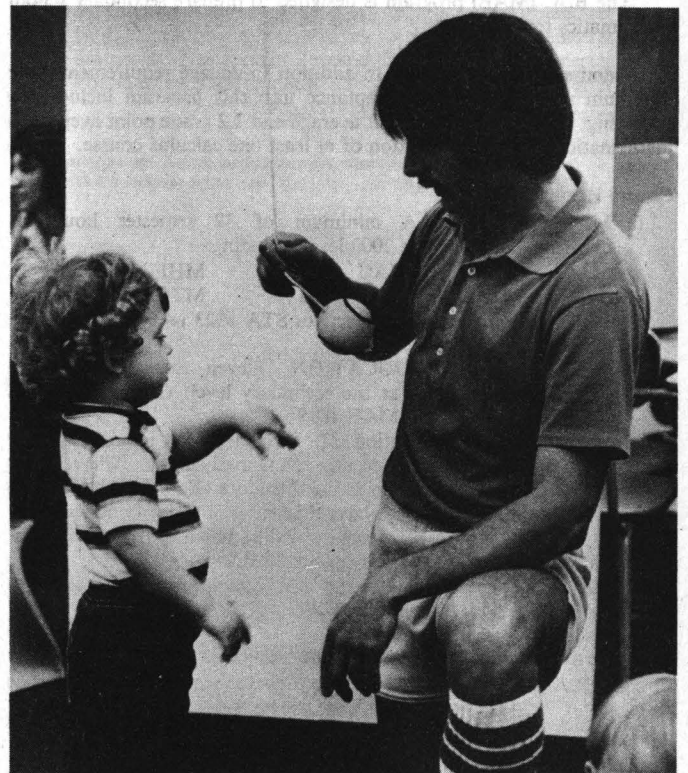
The sixth year Ed.S. degree in Curriculum and Instruction with an emphasis in Library, Media and Information Studies provides librarians with an opportunity to specialize in particular aspects of library, media, and information services in different types of libraries. In addition to requirements of the College of Education for admission to Ed.S. programs, the department requires that students have a master's degree from an ALA accredited program, an interview with a relevant professor in the department, and an application letter on file in the department. Graduation requirements are completion of a minimum of 36 hours of approved coursework including at least five hours in cognate courses outside this department, nine hours for a thesis or project, and a final comprehensive exam.

Accreditation and Certification

The Library, Media, and Information Studies department master's degree program is fully accredited by the American Library Association. In addition, completion of the required program of studies for the school media librarianship specialization results in Florida certification as an Education Media Specialist. Students may also plan electives to meet the certification requirements of other states, if they wish to do so.

Additional Information

Even though degree-oriented undergraduate study is not offered by the department, the faculty will counsel those undergraduates interested in exploring the kind of program most appropriate as a basis for graduate study in librarianship at USF. Details concerning the graduate program, including information on the profession, are available from the chairperson, Library, Media, and Information Studies Department, University of South Florida, Tampa, Florida, 33620.



Department of Mathematics, Science and Health Education

The Department of Mathematics, Science and Health Education offers programs leading to the B.A. degree in Mathematics, Science or Health Education; the M.A. degree in Mathematics Education or Science Education; and the M.Ed., Ed.S., and Ph.D. degrees in Curriculum and Instruction with an emphasis in Mathematics Education or Science Education.

The undergraduate programs are designed to prepare students to meet the state certification requirements and to become highly competent secondary teachers. Students in the undergraduate Health Education program may elect to complete a non-certification track. Specialized courses in the teaching of mathematics and science are offered for students majoring in elementary, early childhood, and exceptional child education.

At the graduate level students may concentrate in either elementary, secondary, or K-12 programs. The master's programs are intended mainly to improve the skills of the classroom teacher and/or to prepare students for entry into advanced graduate programs. The advanced degree programs are designed to develop mathematics and science education leaders for a variety of positions such as mathematics or science supervisors, mathematics clinicians, researchers and university professors.

The Mathematics, Science and Health Education Department has several faculty members who are actively engaged in research, textbook writing, and/or curriculum development. Currently, advanced graduate students may engage in research, under faculty supervision, in such areas as problem solving, reading in content areas, diagnosis and prescription, development of skill and concept hierarchies, applications of microcomputers in education, the validation of specific teaching strategies, and others.

The facilities include access to the IBM 3033N computer in the Computer Research Center, as well as microcomputers within the Department, the Mathematics Education Clinic, and the University Materials Center. Further, excellent opportunity exists for conducting applied research in elementary and secondary schools within the USF service area.

■ MATHEMATICS, SCIENCE, AND HEALTH EDUCATION

Requirements for the B.A. Degree in Mathematics Education:

The B.A. (MAE) program is designed to prepare secondary school mathematics teachers.

Admission Requirements: In addition to college requirements, the minimum requirements for acceptance into this program include the following: 2.2 overall grade point average and 2.2 grade point average in mathematics courses; completion of at least one calculus course.

Course Requirements:

- (a) **MATHEMATICS:** A minimum of 32 semester hours in mathematics above the 2000 level including:

MAC 3411 MAC 3413 MHF 3102
MAC 3412 MAS 3103 MTG 4212

Upper level mathematics electives STA 3023 and MAS 4301 are strongly recommended.

- (b) **MATHEMATICS EDUCATION:** Eleven semester hours in teaching mathematics at the secondary level: CAP 4100, MAE 4320, MAE 4330, and MAE 4885.

The student has the option of completing an interdisciplinary Natural Science major with a concentration in mathematics. This requires a minimum of 24 semester hours in mathematics and a minimum of 16 semester hours in the College of Natural Sciences outside of mathematics. These latter 16 hours must be approved by the student's adviser and must include a minimum of two courses at the 3000 level or above.

Students must complete all mathematics courses and all mathematics education courses with a grade of "C" or higher.

Requirements for the B.A. Degree in Science Education:

The B.A. Programs are designed to prepare secondary school science teachers.

Admission requirements: In addition to the College requirements, the minimum requirements, the minimum requirement for acceptance in-

to either program is the completion of 16 semester hours of required science courses with no grade less than a "C".

Course Requirements:

(a) SCIENCE:

1. A minimum of 45 semester hours for the interdisciplinary Natural Science major with a concentration in Science Education (SCE). This requires a minimum of 24 semester hours in the discipline of major concentration (Biology, Chemistry, or Physics) and a minimum of 16 semester hours within the College of Natural Sciences outside the concentration area.
2. A major in the chosen discipline as specified by the Departments of the College of Natural Sciences for a concentration in Botany Education (BOE), Chemistry Education (CHE), Physics Education (PHE), or Zoology Education (ZOE).

(b) SCIENCE EDUCATION:

1. A minimum of 8-12 semester hours in teaching science at the secondary level including SCE 4330 and SCE 4305 required in both programs. Students must complete all science and science education courses with a grade of "C" or higher.

Requirements for the B.A. Degree in Health Education:

The B.A. Program (HES) is designed to prepare health teachers for the public schools or health education professionals for non-school settings. The program combines course work and field work/internship in public schools and community health programs. This is a selective admissions, competency based curriculum. An average grade point average of 2.5 in Health Education courses must be maintained to continue in the program.

Admission Requirements: In addition to the College requirements, the minimum requirements for acceptance into this program include:

1. A survey course in health science (HES 2000 or equivalent).
2. Biology with laboratory.
3. An interview for program guidance.
4. Written statement by the student stating reasons for wanting to become a health educator.
5. Recommendation from the Departmental Admissions Committee.

Applicant's academic background, ACT or SAT scores, and related work experience may also be considered in the selection process.

Course Requirements:

- A. **CERTIFICATION PROGRAM:** In addition to the Professional Education Core, a minimum of 43 semester hours in Health Education including:

HES 2400	HES 3244	HES 4750
HES 3122	HES 3300	HES 4940
HES 3140	HES 4143	HES 4943
HES 3141	HES 4722	

- B. **NON-CERTIFICATION PROGRAM:** In addition to the professional education courses, EDF 3214 and EDF 4430, 46 semester hours in Health Education including:

HES 2400	HES 3300	HES 4942
HES 3122	HES 3510	HES 4722
HES 3140	HES 4143	HES 4750
HES 3141	HES 4276	HES 4943
HES 3244	HES 4700	

Requirements for the M.A. Degree in Mathematics Education or Science Education:

ELEMENTARY—This M.A. Degree (EDE) is designed to improve the skills of the classroom teacher in teaching mathematics or science to elementary school youngsters.

Admission Requirements:

1. GRE (Quantitative and Verbal 1000, or GPA (last half of undergraduate degree) 3.0 (B).
2. Certification in elementary education.
3. Recommendations for both the Departments of Elementary Education and Mathematics, Science and Health Education.

Course Requirements: (A minimum of 33 semester hours)

1. Nine semester hours in Elementary Education: EDE 6305, EDG 6935, and RED 6116.

2. Nine semester hours in foundations of education: EDF 6431, EDF 6481, and EDF 6120 or EDF 6215.
3. Twelve semester hours in Mathematics Education or Science Education selected from the following courses: EDG 6831, MAE 5363, MAE 6116, MAE 6337, MAE 6338, MAE 6356, MAE 6548, MAE 6549, SCE 5937, SCE 6116, SCE 6336, SCE 6436, SCE 6634.
4. Three semester hours of electives in Mathematics Education, Science Education or related areas.

Comprehensive Examination: The comprehensive examination will consist of a written and/or oral examination in the major area.

SECONDARY—The M.A. Degree (MAE) in Mathematics Education or the M.A. Degree (SCE) in Science Education are designed mainly for high school teachers (Plan I). Plan II is designed for those who desire to meet certification requirements as part of a planned program leading to the M.A. degree.

Admission Requirements:

1. GRE (Quantitative and Verbal) 1000 or GPA (last half of undergraduate degree) 3.0 (B).
2. Undergraduate degree in Mathematics Education or Science Education or a degree with a strong background in Mathematics or Science.
3. Recommendation from the Departmental Admissions Committee.

Course Requirements: (A minimum of 33 semester hours)

1. Eighteen semester hours in mathematics or science approved by the student's advisor.
2. Nine semester hours in foundations of education: EDF 6431, EDF 6481 and EDF 6211 or 6215.
3. Three semester hours in current trends in secondary school mathematics (MAE 6136) or secondary school science (SCE 6634).
4. Three semester hours of electives in mathematics education or science education.

Comprehensive Examination: The comprehensive examination will consist of a written and/or oral examination in the major area.

Requirements for the M.Ed. Degree in Curriculum and Instruction with an emphasis in Mathematics Education or Science Education:

The M.Ed. Degree (CUR) is a flexible degree program intended to improve the skills of the classroom teacher. The program will be planned on an individual basis by the student and an advisory committee.

Admission Requirements:

1. GRE (Quantitative and Verbal) 1000 or GPA (last half of undergraduate degree) 3.0 (B).
2. Teaching certification.
3. Two years of teaching experience.
4. Recommendations from the Departmental Admissions Committee.

Course Requirements: A minimum of 33 semester hours with 60% or more at the 6000 level.

1. Eighteen semester hours in mathematics/mathematics education or science/science education.
2. Four semester hours in graduate curriculum and instruction (EDG 7667).
3. Twelve semester hours in foundations of education (EDF 6431, EDF 6481, EDF 6211 or 6215, and EDG 6517 or 6544 or 6606).

Comprehensive Examination: The comprehensive examination will consist of a written and/or oral examination in the major area.

Requirements for the Ed.S. Degree in Curriculum and Instruction with an emphasis in Mathematics Education or Science Education:

The Ed.S. Degree (CMA) is designed to prepare specialists in mathematics education or science education for classroom instruction or leadership and supervisory roles.

Admission Requirements:

1. GRE (Quantitative and Verbal) 1000 or GPA (last half of undergraduate degree) 3.0 (B).

2. A master's degree with an emphasis in mathematics/mathematics education or science/science education with a 3.25 GPA or equivalent.
3. Three letters of recommendation.
4. Recommendation from the Departmental Admissions Committee.

Course Requirements: A minimum of 36 semester hours.

1. A core of 12 semester hours consisting of EDG 7493 and 3 semester hours in each of the following areas: computer technology, supervision, and educational psychology.
2. Fifteen semester hours in mathematics/mathematics education or science/science education. Courses will be selected based upon the student's background.
3. Nine semester hours devoted to an approved project completed under the direction of a major professor.

Comprehensive Examination: The comprehensive examination consists of a written and/or oral examination. The candidate will be required to make an oral defense of the project.

Requirements for the Ph.D. Degree in Curriculum and Instruction with an emphasis in Mathematics Education or Science Education:

The Ph.D. Degree (CMA, CSC) is granted on evidence of proficiency and distinctive achievement in mathematics education or science education and by the demonstration of ability to do original, independent investigation culminating in a dissertation.

Admission Requirements:

1. GRE (Quantitative and Verbal) 1000.
2. GPA (Last half of B.A.) 3.0.
3. A master's degree in mathematics/mathematics education or science/science education with a 3.25 GPA or equivalent.
4. Three letters of recommendation.
5. Recommendation from the Departmental Admissions Committee.

Course Requirements: A minimum of 71 semester hours. This program is highly individualized. Candidates' programs are planned (with approval by a faculty committee) based upon previous experiences and future goals. The following areas must be included:

1. Major Area	
A. Mathematics Education or Science Education	18 Semester Hours
B. Cognate Area*	11 Semester Hours
C. Dissertation	18 Semester Hours
2. Statistics/Measurement Research Design	12 Semester Hours
3. Foundations (Curriculum)	12 Semester Hours
**TOTAL	71 Semester Hours

*Supporting courses outside mathematics education or science education.

**Post master's semester hours.



Department of Music Education

MUSIC EDUCATION

Requirements for the B.A. Degree (MUE):

All students seeking a degree in music education are required to take a placement examination in music theory-history and to pass an audition in their respective performance area. Students must obtain the dates for these examinations from the Music Office; completion of the examination is required before registration in music courses can be permitted.

Special requirements for all music education majors: successful completion of the piano proficiency requirement 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 senior year.

Students are encouraged to attend on-campus musical events (major ensemble concerts, student and faculty recitals, and Artist Series concerts).

A. Instrumental Specialization (76 cr. hrs.)

Music Education courses (22 cr. hrs.)

MUE 2420	+ MUE 3414	*MUE 4314
MUE 3411	*MUE 4050	*MUE 4332
+ MUE 3413	*MUE 4130	+ + MUE 4480

+ Must be taken up to two hours

*One credit hour of pre-interning enrollment required with each course.

+ + Elective for band emphasis.

Music Courses (minimum 54 cr. hours)

MUT 1111	MUT 2117	MUH 3211
MUT 1112	MUT 2246	MUH 3212
MUT 1241	MUT 2247	MUG 3101
MUT 1242	MUL 2111	
MUT 2116	MUL 2112	

Applied Music (21 cr. hours, minimum 3 hrs. senior level)

Applied Music Secondary (Techniques)

(one each: woodwind, brass, string, percussion, voice)

Art, Dance, Theatre (minimum 4 cr. hours)

(one course to be selected from one or more of the other departments of the College of Fine Arts)

Performing Ensembles (minimum of one per semester of applied music)

Piano Proficiency Requirement

Graduating Recital

B. Vocal Specialization (74 cr. hours)

Music Education courses (21 cr. hours)

MUE 2420	MUE 3414	*MUE 4314
+ MUE 3411	*MUE 4050	*MUE 4331
MUE 3413	*MUE 4130	

+ Must be taken up to two hours.

*One credit hour of pre-interning enrollment required with each course.

Music Courses (minimum 53 cr. hours)

MUT 1111	MUT 2117	MUH 3211
MUT 1112	MUT 2246	MUH 3212
MUT 1241	MUT 2247	MUG 3101
MUT 1242	MUL 2111	
MUT 2116	MUL 2112	

Applied Music (21 cr. hours, minimum 3 cr. hours senior level)

Applied Music Secondary (Techniques)

(one each: woodwind, brass, string, percussion, voice)

Art, Dance, Theatre (minimum 4 cr. hours)

(once course to be selected from one or more of the other departments of the College of Fine Arts)

Performing Ensembles

(minimum of one per semester of applied music)

Piano Proficiency Requirement

Graduating Recital

Requirements for the M.A. Degree (MUE):

Plans in both instrumental and vocal music are offered. A placement examination is required of all new registrants in music theory. Each candidate must meet the undergraduate level of piano proficiency before the semester in which he/she expects to graduate. Participation in ensembles is required for at least two semesters. Two plans are available to the candidate: 32 hours plus thesis or recital, or 35 hours without thesis or recital.

Seven credits in education to include EDF 6215 and EDF 6431; nine credits in music education including MUE 6080 and MUE 6189; six credits in music theory-history-literature, four credits in applied music, and MUS 6793.

Department of Professional Physical Education

PHYSICAL EDUCATION

The Professional Physical Education program prepares teachers of physical education K-12.

Requirements for the B.A. Degree (PET):

A two-year program is offered at the junior and senior year level which provides a daily internship experience in the local schools for prospective physical education teachers. In order to be considered for program admission, all students must participate in a selective admissions procedure which includes an on-campus conference, as enrollment in this program is limited. During each of the two semesters of the junior year, students should be prepared to spend a minimum of six hours per week in an elementary school physical education experience in addition to their on-campus study. In the senior year students participate in full day teaching experiences at the secondary level.



After applying for admission to the University, all students must apply directly to the department on or before April 1. Direct requests to:

Chairperson

Professional Physical Education Program

College of Education

The following are the required courses in the physical education program of study (52 cr. hrs.):

Jr. Year	Sr. Year
HES 2400	PET 4361C
PET 3001C	PET 4362C
PET 3381C	PET 4943C
PET 3372	PET 4944C
PET 3434C	PEQ 3101C
PET 3435C	
PET 3943C	
PET 3944C	

Requirements for the M.A. Degree (PET):

The master's degree program in Physical Education focuses upon the teaching-learning process. It is a program geared to the practitioner. Areas within the program in which a student may focus study are Elementary Physical Education, Secondary Physical Education, or Physical Education for the Handicapped.

Enrollment in PET 6051C, Professional Assessment, is required of all students. Preferably this course will be completed during the first semester of study in the program and not later than the completion of six semester hours of credit in the physical education curriculum area.

Department of Psychological and Social Foundations of Education

The Psychological and Social Foundations department provides core courses for the undergraduate and graduate teacher training programs in the College of Education and also elective courses for non-Education students. The School Psychology Master's/Education Specialist degree is the only degree program operated by the Psychological and Social Foundations Department. The student's academic record will reflect this emphasis as part of the degree statement.

■ SCHOOL PSYCHOLOGY

Requirements for the M.A. (PSE)/Ed.D. degrees:

Graduate Studies in School Psychology is a program offered jointly with the Department of Psychology in the College of Social and Behavioral Sciences. Although a master's degree is awarded after approximately 39 semester hours of study, this is not considered to be a terminal degree and does not qualify one for certification. Assuming satisfactory work at the completion of the 39 semester hours, the student then continues work toward the Education Specialist degree with an emphasis in School Psychology.

For the beginning graduate student, the entire program, including the master's and specialist degrees, consists of approximately 71 semester hours. For the student who has previously completed pertinent graduate training, the program may be shorter. These hours include thesis and a full-time internship, which is usually paid, for one academic year.

The curriculum has been carefully sequenced to assure the systematic development of the complex concepts and skills necessary for the competent practice of school psychology. The fine cooperation of several local departments of school psychological services provides almost continuous field experiences for our students. These experiences assure a strong reality orientation which complements formal conceptual development. Our program of studies is designed to meet all recognized national and state accreditation requirements, and our graduates are eligible for Florida Department of Education certification which is reciprocal with some 30 other states. We believe our curriculum would also make one eligible for certification in most states. We believe our curriculum would also make one eligible for certification in most states with which Florida does not have certification reciprocity.

Since the curriculum is carefully sequenced, the program requires full-time study for students without pertinent prior graduate work. It is assumed that full-time study would allow time for an assistantship or part-time job of up to 20 hours per week. Persons with pertinent prior graduate work may pursue the program on a part-time basis to the extent that the prior graduate work is accepted as equivalent to part of the regular program.

The comprehensive practice of school psychology requires close interaction with several disciplines, and our program of studies is appropriately interdisciplinary. This curriculum is organized within Interdisciplinary Studies in Advanced Graduate Education, and policies are developed jointly by the College of Education and the Department of Psychology, College of Social and Behavioral Sciences. The emphasis of this innovative effort is on consultation oriented interventive and preventive psychology in addition to advanced diagnostic and prescriptive procedures. The program faculty believes organized research data form the

best available basis for the practice of school psychology, and they are further committed to the development of leadership and innovation within the profession.

The faculty is dedicated to producing highly trained psychologists through the use of positive techniques. This positive approach can be especially seen in the following policies and procedures:

1. Thorough admission procedures result in the selection of outstanding students. This makes possible a faculty commitment to do everything possible to guide each student to a high level of professional competence. This strategy opposes that of accepting large numbers of students with the assumption that some will "flunk out."
2. The curriculum is well organized and explicit so that the student is always aware of program expectations and of her/his progress in relation to these expectations.
3. The student body is kept small, resulting in greater student-faculty contact than would otherwise be possible.
4. Skills of practice are developed through a non-threatening apprenticeship network, established with local school systems. This model encourages the student to "assist" several professors and practicing school psychologists throughout her/his training. The notion here is to provide positive environments, containing rich feedback, in which competent psychological skills develop.
5. Thesis guidelines have been established for the purpose of reducing the anxiety and ambiguity so often associated with research efforts. The goal is to increase the probabilities that thesis research will be a positive experience while producing quality data with reasonable energy expenditure.

Continuing Education. Elements of the school psychology curriculum will be made available to qualified practicing school psychologists who wish to upgrade their knowledge and skills without necessarily working toward a degree. Other courses and workshops also will be developed for this purpose as the need arises, and a list of pertinent courses available from other departments will be maintained. The faculty will provide appropriate advising.

Curriculum. Except where equivalent courses are transferred into the program, the student must meet the following minimum requirements: Diagnosis and Prescription (10 semester hours); Behavioral/Preventive Consultation (10 semester hours); Developmental/Cultural Diversity (10 semester hours); Theoretical/Research Context (18 semester hours); Thesis and Internship.

Admissions. University and college admissions requirements may be found elsewhere in this catalog. Since more persons apply than we can accommodate, admission to the school psychology program is competitive. The student should apply directly to the Office of Graduate Admissions, University of South Florida, Tampa, Florida 33620. The school psychology program will request further information from the student upon notification that the application is on file. Admission procedures are completed in the Spring Semester preceding entrance into the program in the following Fall Semester. Each student accepted into the program will automatically be considered for financial aid. If separate application is necessary, forms will be forwarded to the student upon admission.

Further Information. Details of the program may be obtained in writing the Director of Graduate Studies in School Psychology, FAO 276, University of South Florida, Tampa, Florida 33620.

Department of Reading Education

The Reading Education department has four major functions. The first is our service to undergraduates and preservice teachers which includes training every undergraduate student in the college in the teaching of reading, aspects of classroom corrective reading, and the utilization of reading in the content areas.

The second area of endeavor is our degree programs which involve the continuing education of teachers at the M.A., Ed.S. and Ph.D. levels in Reading/Language Arts.

Our third function entails work in USF's 15-county responsibility area which includes Teacher Education Centers and Continuing Education. We work with the various public and private agencies and families, as well as the community at large.

The fourth area involves our relationship with the community through the Reading Center. The College of Education Reading Center

offers diagnostic and remedial services to children and youth. The Center provides training for students earning certification and/or degrees in reading. A large collection of diagnostic and remedial materials is housed in the Center.

■ READING EDUCATION

Requirements for the M.A. Degree (RED):

The master's degree in Reading Education is designed to prepare special reading teachers, reading clinicians, and supervisors-directors-coordinators of reading for school systems.

In addition to meeting the University and College requirements, applicants to the reading program must present three (3) letters of recommendation, and a personal statement of professional background, experience and goals. The Board of Regents requires that applicants to the graduate program have at least a 3.0 grade point average from their last two years of undergraduate work OR a minimum of 1000 on the GRE. A limited number of students can be admitted to the program who do not meet these minimum requirements. Applications are processed in the semester preceding the one in which the applicant expects to begin the program. The applicant should contact the Reading Department to ascertain the deadline dates for specific semesters and to obtain instructions regarding the transmission of letters of recommendation and statements of goals.

Education courses include:

Plan I—EDF 6431, EDF 6481 and LAE 6616

and one of

EDF 6211	EDF 6544	EDF 6120
EDE 6215	or	EDF 6213
EDF 6606	EDG 5206	EDE 6205
EDF 6517	EDF 5136	

Plan II requires EDF 6211, EDF 6431, EDF 6481, and EDF 6606.

Specialization in Reading Education shall include a minimum of 22 credit hours:

RED 6116	RED 6365	RED 6548	RED 6748
RED 6247	RED 6546	RED 6747	RED 6838

There is the option of writing a thesis which would substitute for some of the course work required in the previously described programs.

Students entering the program with an undergraduate major outside elementary education normally will be required to take RED 4310, RED 4515, and LAE 4414 before beginning the specialization sequence.

Electives must be chosen by conference with adviser.

Selective retention policies require that the student maintain a "B" average with no more than four hours of "C" work in the major area* (Reading) courses and a total of no more than seven hours of "C" work in the program. If either of these criteria is not met, the student will be immediately dropped from the program. The student may then petition to the faculty to be reinstated. Reinstatement will occur when the student retakes one of the courses which a "C" was earned and earns an "A" in that course.

*Major area courses are RED 4310, RED 6116 and all Reading Education courses.

Requirements for the Ed.S. Degree in Curriculum and Instruction (CUR) with an emphasis in Reading/Language Arts Education:

The purpose of the Ed.S. with emphasis in Reading/Language Arts (R/LA) is to prepare in-school leaders in the field. Specific roles which graduates could fill would include directors of R/LA programs for school systems, clinical directors in private or public settings, or supervisors of R/LA curricula. The program is designed to provide experiences to acquire expertise in R/LA processes designing and evaluation R/LA instructional materials and teaching techniques, and the treatment of R/LA problems. A student may elect to acquire more depth in some of these areas than in others; however, a basic knowledge in all will be required. The Ed.S. involves course work, written comprehensives, and a project. The Ed.S. program is separate from the Ph.D. program and is planned as a terminal degree. Applicants should realize that Ed.S. course work is not necessarily applicable to the Ph.D. degree.

Admission

Requirements:

1. Meet the general requirements as specified in the current USF catalog.
2. Have certification in at least one related area of education.
3. Have at least one year of successful experience in a professional school role.
4. Have a master's degree in education with a minimum of 10 graduate semester hours in R/LA or related disciplines. If this is not met, admission may be granted if the student is willing to lengthen the program to make up deficiencies.
5. Submit an official record of the GRE score which must total 1000.
6. Submit an official transcript of post-baccalaureate work showing at least a 3.25 grade point average.
7. Submit a statement of professional history and goals and three letters of recommendation to the Reading Department.

8. Be recommended for approval by the R/LA faculty.

Exceptions:

A limited number of applicants to the program can be admitted as exceptions to Requirements 5 and 6. In order to be considered for this exception, the candidate must have documentable compensating qualifications. Some examples of these qualifications might be:

1. Grade point average of 3.9 in post-baccalaureate work.
2. Scholarly publication.
3. Creative program development.
4. Designing of creative instructional methods and/or materials. Applicants from foreign countries will be appraised individually.

Ed.S. Program Structure:

Specialization in R/LA	15 semester hours*
Electives	1
Project	12 semester hours
	9 semester hours*

Total 36 semester hours*

*All represent post-master's credit and are minimum requirements.

Requirements for the Ph.D. Degree in Curriculum and Instruction (CUR) with an emphasis in Reading/Language Arts Education:

The purpose of the Ph.D. with emphasis in Reading/Language Arts (R/LA) is to prepare leaders in the field. Specific roles which graduates could fill would include college and university faculty, directors of R/LA programs for school systems, or clinical directors in private or public settings. The program is designed to provide experiences to acquire expertise in research into R/LA processes, designing and evaluating R/LA instructional materials and teaching techniques, university and college teaching, and the treatment of disabled learners (R/LA). A student may elect to acquire more depth in some of these areas than in others; however, a basic knowledge in all will be required. The Ph.D. involves course work, written comprehensives, and a dissertation.

Admission

Requirements:

1. Meet the general requirements as specified in the current USF catalog.
2. Have certification in at least one related area of education.
3. Have at least one year of successful experience in a professional school role.
4. Have a master's degree in education with a minimum of 10 graduate semester hours in R/LA or related disciplines. If this is not met, admission may be granted if the student is willing to lengthen the program to make up deficiencies.
5. Submit an official record of the GRE score which must total 1100, with at least 500 on the quantitative section.
6. Submit an official transcript of post-baccalaureate work showing at least a 3.5 grade point average.
7. Submit a statement of professional history and goals and three letters of recommendation to the Reading Department.
8. Be recommended for approval by the program faculty.

Exceptions:

A limited number of applicants can be admitted to the program as exceptions to Requirements 5 and 6. In order to be considered for this exception, the candidate must have compensating qualifications which are documentable. Some examples of these qualifications might be:

1. Grade point average of 3.9 in post-baccalaureate work.
2. Scholarly publication.
3. Creative program development.
4. Designing of creative instructional methods or materials. Applicants from foreign countries will be appraised individually.

Program Structure:

Reading/Language Arts	
Specialization R/LA	18 semester hours*
Cognate Area**	11 semester hours*
Dissertation	18 semester hours*
Statistic/Measurement/	
Research Design	12 semester hours*
Foundations and Curriculum	12 semester hours*
Total	71 Minimum Semester Hours

* All represent post master's credit and are minimal requirements.

** Supporting courses outside major area.

Department of Social Science/Letters Education

The following programs are housed in the Department of Social Science/Letters:

English Education
Foreign Language Education
Humanities Education
Social Science Education
Speech Communication Education

■ ENGLISH EDUCATION

The English Education Section of the Department of Social Science/Letters has as its primary undergraduate mission, the preparation of teachers of English for junior and senior high schools. (Teachers of middle school English ordinarily enroll in Elementary Education and acquire additional background in the English Education section.) The primary graduate missions of this section are to advance the skills of people already teaching English in the public schools and to train them for responsibilities in language arts leadership as department chairs, curriculum coordinators, and consultants in the public schools or as teachers and researchers of English methods in colleges.

The section offers the B.A. degree in both English Education and English-Mass Communication Education and the M.A. degree in English Education, the M.Ed. degree in Curriculum and Instruction with an emphasis in English Education, and the Ed.S. and Ph.D. degrees in Curriculum and Instruction with an emphasis in Communication Education. (The latter two degrees are interdisciplinary degrees offered in conjunction with other communication education specialties: Speech Communication, Drama Education, Foreign Language Education, Humanities Education, and Reading Education.

Requirements for the B.A. Degree (ENE):

The minimum requirement for acceptance into program is a 2.5 grade point average. Graduation requirements: "C" grade or better in Methods Course. SPC 2023, the prerequisite for ORI 3000, must be taken as part of the lower-level general studies preparation.

Specialization Requirements (42-44)

AML 3041	ENL 3022	LIN 4370	ORI 3000
ENC 3310	ENL 3333	LIT 3073	
or	or	or	
CRW 3100	ENL 3334	ENG 3105	
ENL 3012			

One additional 4000-level literature courses

MMC 3602

One of the following:

EDG 4451	LIN 3801	LIN 4100	LIN 4600
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Two special methods courses, LAE 4335, and LAE 4642, and one reading course are included in the professional education sequence.

Requirements for the M.A. Degree (ENE):

Plan I—Requirements for Admission: A bachelor's degree in English Education from a recognized institution, or Rank II certification in Secondary English from the State of Florida or other equivalent certification.

Course Sequence: Process Core (6-12 hours), English Education (3-11 hours). English courses (3-6 courses selected under advisement as preparation for terminal examination over a reading list including selected works for most periods of English and American literature; students may select one course each in linguistics and advanced composition for teachers). Education Electives (selected under advisement to bring the program to a total of at least 32 hours).

Plan II—Requirements for Admission: A bachelor's degree in English from a recognized Liberal Arts Institution of higher learning or equivalent English preparation.

Course Sequence: Process Core (11 hours), Curriculum (3 hours), English Education (3-6 hours), English courses (12-18 hours selected as for Plan I, above), Internship (10-12 hours). In addition, the State Department of Education requires a course in Reading in the Content Areas for certification or recertification if the competency has not otherwise been met.

Requirements for the B.A. Degree in Mass Communications-English Education (MCE):

The minimum requirement for acceptance into this program is a 2.5 grade point average. SPC 2023 must be included in the lower division sequence.

Specialization Requirements (43 cr. hrs.)

Mass Communications (19 cr. hrs.)

JOU 3100	MMC 3100	RTV 3225
JOU 4800	MMC 3602	

Two of the following:

FIL 3004	JOU 3205	MMC 4200	VIC 3000
FIL 4300	JOU 4200	RTV 3000	VIC 3100

Two special methods courses LAE 4335 and LAE 4642 are included in the professional education sequence. LAE 4530 fulfills the state requirements for the competency in reading.

English (24 cr. hrs.)

AML 3041	ENL 3022	LIT 3073
ENL 3012	LIN 4370	

One additional English course in literature at the 4000 level.

■ FOREIGN LANGUAGE EDUCATION

Foreign Language Education offers programs leading to the B.A. degree and certification in the secondary area in the following languages: French, German, Italian, Latin, Portuguese, Russian, Spanish. The undergraduate program, when successfully completed, makes the graduate of these programs automatically eligible for teaching certification in the State of Florida.

Programs are offered leading to the M.A. degree in the secondary area in the following languages: French, German, Spanish. The master's programs are designed primarily to improve the skills of the person already certified in Foreign Language Education. Plan I is for teachers who are certified to teach. Plan II is for people with a bachelor's degree in a language who wish to gain certification with their master's degree.

Combination programs leading to the B.A. degree and certification are offered in the following areas: Latin-English Education; Latin-Foreign Language Education; Foreign Language-English Education; Dual Foreign Language Education (any combination of two different foreign languages).

Requirements for the various degrees follow.

Requirements for the B.A. Degree (FLE):

FOREIGN LANGUAGE-ENGLISH EDUCATION:

Specialization Requirements (45 credit hours.)

English (24 credit hours.)

ENC 3310	LIN 4370	SPC 2023
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or

CRW 3100

At least one of the following:

ENL 3012	ENL 3220	ENL 3250
ENL 3022	ENL 3230	ENL 3273
ENL 3201	ENL 3241	ENL 3333

One of the following:

AML 3023	AML 3041	AML 3051
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One of the following:

ENG 3105	ENG 3114	LIT 3073
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If an elective is needed, ORI 3000 is recommended.

Foreign Language requires a minimum of 24 credit hours beyond intermediate courses.

Course Requirements are:

Composition I and II	Conversation I and II
FRW 4230	GEW 4101
FRW 4300	ITW 4100
GEW 4100	ITW 4101
	SPW 4100
	SPW 4101

Student and adviser will select the additional foreign language courses to total a minimum of 24 credit hours. FOL 5752, FOW 5405, LIN 3010, LIN 3801, and LIN 4377 may be among the selected courses.

Two special methods courses (FLE 4333 and LAE 4335) are included in the professional education sequence.

TWO FOREIGN LANGUAGE EDUCATION

Specialization Requirements (42 credit hours.)

Beginning and intermediate foreign language requirements (or equivalents) must be completed. In the major language (French, German, Italian, Russian, or Spanish), the student must earn a minimum of 24 credit hours, and in the minor language 18 credit hours. The required upper level foreign language courses for the major language are:

Composition I and II		Conversation I and II	
FRW 4230	ITW 4100	SPN 5790*	
FRW 4300	ITW 4101	or	
GEW 4100	SPW 4100	SPW 4130	
GEW 4101	SPW 4101		

Plus additional selected hours in the major language to total 24 credit hours.

The minor language requirements in upper level foreign language courses are:

Composition I and II		Conversation I and II	
FRW 4230	GEW 4101	SPW 4100	
FRW 4300	ITW 4100	SPW 4101	
GEW 4100	ITW 4101		

Plus additional selected hours in the minor language to total 18 credit hours.

*Spanish majors only.

SINGLE FOREIGN LANGUAGE EDUCATION

After consultation with a foreign language education adviser, the Dean may give permission for a student to elect a single foreign language major. A minimum of 30 credit hours beyond intermediate course requirements must be earned in the single foreign language. Among the 30 hours must be the following:

French (30 credit hours.)

FRE 3240	FRE 4241	FRW 4230
FRE 3420	FRE 4421	FRW 4300

Plus additional selected hours of upper level courses to total 30 hours.*

German (30 credit hours.)

GER 3240	GER 4241	GEW 4100
GER 3420	GER 4421	GEW 4101

Plus additional selected hours of upper level courses to total 30 hours.*

Italian (30 credit hours.)

ITA 3240	ITA 4241	ITW 4100
ITA 3420	ITA 4421	ITW 4101

Plus additional selected hours of upper level courses to total 30 hours.*

Russian (30 credit hours.)

RUS 3400	RUT 3110
RUS 4401	RUT 3111

Plus additional selected hours of upper level courses to total 30 hours.*

Spanish (30 credit hours.)

SPN 2240**	SPN 4301	SPW 4101
SPN 3300	SPW 4100	or
SPN 3241**		SPW 4130

Plus additional selected hours of upper level courses to total 30 hours.*

*LIN 3010, LIN 3801, LIN 4377 may be used to satisfy selected course requirements of the foreign language.

**These course will not count in major for students who are fluent in Spanish.

Requirements for the M.A. Degree (FLE):

(FRENCH, GERMAN, SPANISH)

Plan I is for certified teachers and students must take the same areas of study as students in Plans II and III, except they are only required to take EDF 6431 in the process core.

Plan III is a program of graduate studies for holders of a non-education baccalaureate degree who do not wish to meet teacher certification

requirements in the State of Florida. The primary difference in this plan from Plan II is that students will not be required to take EDG 5206, Curriculum and Instruction, and EDG 6947, Internship.

A. Process Core (11 hours)

EDF 6431	EDF 6606
EDF 6481	or
EDF 6211	EDF 6215
	or
	EDF 6517
	or
	EDF 6544

B. Current Trends Course in Teaching Specialization (3 hours)

C. Specialization (18 hours)

This is an individually planned graduate major in the teaching field or in an appropriate College of Education program for K-12 specialists.

In addition, Plan II requires an internship in the Foreign Language. A minimum of 18 hours are required in the Foreign Language course on the 5000 and 6000 levels. However, depending upon the candidate's background and strengths, Foreign Language course requirements can go as high as 24 hours. Unless otherwise approved by an adviser, at least 14 hours in French should be on the 6000 level; at least 12 hours in Spanish should be on the 6000 level.

HUMANITIES EDUCATION

The Humanities Education Program seeks to prepare secondary school humanities teachers who have extensive academic work in the humanities. B.A. and M.A. degree programs are available.

At the B.A. degree level, students develop teaching strategies, materials, and curricula to use in teaching the humanities to students in grades 7-12. Although emphasis is placed upon meeting the requirements of the State of Florida, students also are encouraged to gain sufficient experience to allow them to move on to other states as qualified humanities teachers. Whenever possible, students are encouraged to gain a second certification area to allow even greater professional mobility.

At the M.A. level, experienced humanities teachers are offered continued work in their professional area to expand their understanding of man's accomplishments and enlightenment. The degree also is available to individuals who wish to gain certification in the humanities but whose undergraduate degree was in another academic area. Students are expected to demonstrate research and writing abilities in relation to synthesizing information on man's accomplishments in the humanities. Having demonstrated this ability, they are expected to be able to show how the material may be taught to students in secondary schools and/or community colleges.

Although all graduates in Humanities Education are expected to demonstrate teaching abilities in the area, neither degree limits its product to teaching. The work in this area is considered to be a good general background for any profession which deals with human evaluation, perpetuation of man's accomplishments, and the production of creative or artistic products.

Requirements for the B.A. Degree (HUE):

The minimum requirement for acceptance into this program is a 2.5 grade point average. Graduation requirements: 2.5 GPA in major and "C" grade or better in Methods Course.

Specialization Requirements HUM 4813 and 28 credit hours from the following:

HUM 4433, 4434	HUM 4905, 4906
HUM 4435, 4436	HUM 5452, 5454, 5456
HUM 4437, 4438	HUM 5485, 5486
HUM 4440, 4441	HUM 5412
HUM 4444, 4445	HUM 5414
HUM 4471, 4473	HUM 5415
HUM 4442, 4443	HUM 5465

Also required a minimum of six credit hours in the creative or performing arts from the following areas: Theatre, Art, Music, Dance, and English. Academic work in these areas taken prior to entering the College of Education will be considered toward the satisfaction of this requirement.

Course work to meet Florida reading requirements is required. Majors are encouraged to gain certification in a second area.

Requirements for the M.A. Degree (HUE):

Plan I—Requirements for admission: A bachelor's degree in Humanities Education or a related area which included teacher certification; 1000 on the GRE and an academic average of B in the last two years of undergraduate work; approval of Humanities Education adviser.

Course Sequence: HUM 4813 (if not taken previously) EDF 6431 and EDF 6481; two courses from EDF 6211 or EDF 6215, EDF 6606, EDF 6517, EDF 6544 or other Education areas approved by the Humanities Education adviser; HUM 4870; HUM 6915; and six graduate courses from the Humanities Department, two of which may be at the 5000 level. Candidates must complete a comprehensive examination successfully, after completing written papers for the Humanities Department.

Plan II—Requirements for admission: A bachelor's degree in Humanities or a related subject area; 1000 on the GRE and an academic average of at least B in the last two years of undergraduate work; approved by the Humanities Education adviser. Any entrance requirement waivers must be approved by both the Humanities Department and the Humanities Education adviser.

Course Sequence: HUM 4813 (if not taken previously) Process Core; HUM 4870; RED 4337; HUM 6915; EDG 6947; and six graduate courses from the Humanities Department, two of which may be at the 5000 level. Candidates must complete a comprehensive examination successfully, after completing written papers for the Humanities Department. The examination should be scheduled during a time when the candidate is not interning.

■ SOCIAL SCIENCE EDUCATION

The goals and objectives of the secondary Social Science program at the undergraduate level are designed to prepare students to meet Florida state certification requirements. In working toward state certification requirements, candidates for the undergraduate degree enroll in courses for the purpose of acquiring subject knowledge in the social sciences as well as knowledge and skills related to social science methodology and curriculum.

The Social Science program at the elementary level is for the purpose of providing candidates in elementary education with the knowledge of skills needed in developing a competent Social Science program at the elementary school level.

At the graduate level, students may elect to pursue an M.A. degree in secondary Social Science Education or an M.Ed. degree in Curriculum and Instruction with specialization in Social Science Education. The master's programs are intended mainly to improve the skills and knowledge of the classroom teacher.

Requirements for the B.A. Degree (SSE):

The College of Education provides a program of study which enables students to attain a degree in secondary social science education (7-12). To teach at the secondary level the minimum requirements of social science education major must be met. All programs in the social science education major specify 40 credits or more in the social sciences. A teaching emphasis requires a minimum of 16 credits in one discipline within an approved specialization which will lead to certification in the broad area of social sciences. However, a student may concentrate his study in one of the separate subject areas (political science, history, geography, American history). Each program contains both required and elective courses which each student in consultation with his adviser will select.

Graduation requirements: 2.5 GPA in major and "C" grade or better in Methods Course.

Requirements for the M.A. Degree (SSE):

This degree is designed to provide advanced training for the purpose of becoming better teachers in grades 7-12.

Plan I—is for teachers who are certified to teach general secondary social studies or one of the separate subject areas.

Education courses include: EDF 6431, SSE 6636 and 6-9 hours of electives.

Each student in consultation with his adviser will select at least five courses at the 5000 or 6000 level, for a total of at least 18 semester hours, from courses offered in the College of Social and Behavioral Sciences. Three or more of these courses must be at the 6000 level.

Plan II—Students will complete all the Plan I requirements, take SSE 4333, EDG 5206 and EDG 6947, plus two more foundation courses and any other social science courses which the Social Science Education department deems necessary for fulfilling minimum state certification requirements.

Plan III—is for people with a social science baccalaureate degree who do not want state certification.

■ SPEECH COMMUNICATION EDUCATION

The program in Speech Communication Education offers B.A. and M.A. degree programs leading to secondary school certification in speech. It cooperates with other areas in the University that have graduate courses in human communication, to offer the Ph.D. degree in Curriculum and Instruction with an emphasis in Communications Education to qualified and experienced communication educators.

At the undergraduate level emphasis is placed upon preparing students with a liberal arts background to teach speech communication courses in grades 7-12. Although particular attention is devoted to the needs and requirements of Florida, a genuine effort is made to assist majors at all levels to gain a diversified background in communication skills that will allow easy national and international mobility among English speaking schools. Whenever possible, majors are encouraged to obtain necessary courses and skills to permit them to be certified in more than one academic area.

The M.A. degree program in Speech Communication Education gives advanced in-service education to experienced teachers and also provides a route for liberal arts graduates with considerable course work in speech communication to attain an advanced degree and state certification in speech simultaneously. The M.A. program also offers opportunities to teachers of other secondary school subjects to gain certification in another academic area. Thus, prospective language arts supervisors and English or Language Arts Department chairpersons are encouraged to increase their competencies in areas not permitted in their undergraduate programs, in order to understand more of the areas they will be expected to supervise.

The Ph.D. degree in Curriculum and Instruction with an emphasis in Communications Education encourages highly qualified, experienced teachers to pursue a program of research in several different areas of human communication. It requires a study of interrelationships among those various areas in theoretical and applied situations.

Although the primary emphasis of this program, at all degree levels, is the preparation and continued education of teachers, the program recognizes its graduates are suited to many other professions that require oral language facility. A degree in this program offers training in reasoning, human relations, group processes, aesthetics, research methodologies, and public presentations.

Requirements for the B.A. Degree in Speech Communication/Education (SED):

The minimum requirement for acceptance into this program is a 2.5 Grade Point Average. Graduation Requirements are a 2.5 GPA in the major and a "C" grade or better in SED 4335. SPC 2023 must be taken as part of the lower level sequence.

Specialization Requirements (44-46 credit hours)

Communication (24 credit hours)

COM 3003	ORI 3000	SPC 2050
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One of the following:

SPC 3441	SPC 3513
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Two of the following:

SPC 3210	SPC 3441	SPC 3601
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SPC 3301	SPC 3513
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At least two electives from:

COM 4120	ORI 4310	SPC 3653
ORI 4120	ORI 5145	SPC 4680
ORI 4140	SPC 3633	THE 3080C
ORI 4230		

English (18 credit hours)

Two of the following:

ENL 3012	ENL 3220	ENL 3250
ENL 3022	ENL 3230	ENL 3273
ENL 3201	ENL 3241	ENL 3333

One of the following:

AML 3031 AML 3032 AML 3041 AML 3051

One of the following:

ENG 3073 ENG 3105 ENG 3742 LIT 3114

One of the following:

CRW 3100 ENC 3310

One of the following:

LIN 3010 LIN 4100 LIN 4370

The following special methods courses are included in the professional education sequence:

LAE 4642 SED 4335 SED 4371 SED 4374

Requirements for the M.A. Degree in Speech Communication/Education (SPH):

Plan I—Requirements for admission: A bachelor's degree in Speech or Communications Education, Theatre or Drama Education, or English Education from a recognized institution; or current certification in Speech/Communication, Theatre, or English and a minimum of 20 hours of college course credits in oral communication.

Course Sequence: EDF 6431 and three electives in Education approved by the adviser; SED 6070 and SED 6670; and at least five courses in the Department of Communication including COM 6001, courses in rhetoric and/or communication, courses in oral interpretation. Candidates must complete a comprehensive examination successfully.

Plan II—Requirements for admission: A bachelor's degree from a recognized institution and a minimum of 20 hours of college course credits in oral communication.

Course Sequence: Process Core: SED 4371, SED 6070, and SED 6670, SED 4374, at least five courses in the Department of Communication including COM 6001, courses in rhetoric and/or communication, courses in oral interpretation; and EDG 6947. Candidates must complete a comprehensive examination successfully.

Requirements for the Ed.S. Degree in Communications Education:

The Ed.S. program in Curriculum and Instruction with an emphasis in Communications Education is intended for practicing educators who seek a broader understanding of human communication. Candidates must hold a master's degree in an area of Communications Education or be certified as a teacher and have a master's degree in one of the content areas of human communication (including Communication/Speech, English, Linguistics, Mass Communications, and Theatre). Candidates should expect to study areas different from their previous academic specialization, if they have prior degrees in only one area of human communication.

Each candidate's program will be reviewed by the graduate faculty in Communications Education. Programs will be individualized for each candidate based on existing proficiencies and anticipated future needs. A typical program would include:

- I. Curriculum, Supervision, and Related Areas
- II. Evaluation/Research
- III. Speciality in Communication and Education
 - A. Content Area Courses other than prior specialization
 - B. Communications Education courses with primary emphasis in areas other than prior specialization
 - C. Ed.S. Project 9 hours

Minimum Hours Required: 36

Interested candidates should contact: Coordinator of Ph.D./Ed.S. Programs, Communications Education, Department of Social Science and Letters Education, College of Education, University of South Florida, Tampa, Florida 33620.

Requirements for the Ph.D. Degree:

The Ph.D. degree in Curriculum and Instruction with emphasis in Communications Education is intended for individuals who have had considerable academic work in one or more of the areas of human communication. Candidates will be expected to study areas different from their previous fields of specialization in order to gain a wider understanding of the field of human communication. Each candidate's program will be based upon the individual's current academic proficiencies and presumed needs by the graduate faculty in Communications Education. This program does not permit narrow specialization in only one area of Communications Education.

This program encourages Communications Educators to develop new forms of communication; refine, preserve, and understand older forms of communication; and prepare future educators who will be capable of teaching the content and practice, form and process, of communication as an art and science.

The structure for this graduate program normally will be as follows, provided the student has the necessary prerequisites for all courses taken in this program:

- I. Educational Foundations
- II. Statistics/Measurement/Research Design
- III. Specialization/Major:
 - A. Content Area Courses
 - B. Communications Education Courses
- IV. Dissertation
- V. Cognate Area
- VI. Language/Computer Science/Personal Proficiency (no credit)

Minimum Hours Required: 67 hours

In addition to admission requirements specified under University and College requirements, each candidate must have completed two years of full-time teaching experience.

Interested candidates should contact: Coordinator of Ph.D./Ed.S. Programs, Communications Education, Department of Social Science and Letters Education, College of Education University of South Florida, Tampa, Florida 33620.





COLLEGE OF ENGINEERING

Have you ever felt you would like to be the "somebody" who will do "something" about the many problems we face? Our modern society requires new, practical solutions to its many complex technological problems. Spearheading this action will be the engineer and the engineering profession. The engineer, as always, will continue to be responsible for and obliged to use his/her knowledge for the benefit of mankind.

The increasingly rapid changes in our life style place an ever stronger responsibility to society and to our future on both those who are providing the engineering education as well as those who are being educated. The College of Engineering recognizes this in its approach to the education of tomorrow's engineers as well as in the content of the other programs under its direction which are vital to the technological progress of our society. Its curricula provides for an individual's development in both technical competency and human values.

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 degree (ECH)
 Bachelor of Science in Civil Engineering degree (ECE)
 Bachelor of Science in Computer Engineering degree (ECP)
 Bachelor of Science in Electrical Engineering degree (EEL)
 Bachelor of Science in Engineering degree - various Options (EGU)
 (programs) in:

Chemical Engineering
 Electrical Engineering
 Industrial Engineering
 Structures, Materials, and Fluids
 General Engineering

Bachelor of Science in Industrial Engineering degree (EIE)
 Bachelor of Science in Mechanical Engineering degree (EME)

Bachelor of Science in Engineering Science degree -
 various Options (programs) in:
 Computer Science (ECS)
 Environmental Engineering Science (ENV)
 Information Systems (EIS)
 Other options (EGC)

Bachelor of Engineering Technology degree (ETK)

Master of Science in Chemical Engineering degree (ECH)
 Master of Science in Civil Engineering degree (ECE)
 Master of Science in Computer Engineering degree (ECP)

Master of Science in Electrical Engineering degree (EEL)
 Master of Science in Engineering degree (EGP)
 Master of Science in Engineering Management degree (EMA)
 Master of Science in Industrial Engineering degree (EIE)
 Master of Science in Mechanical Engineering degree (EME)
 Master of Engineering degree (EGM)

Master of Science in Engineering Science degree (EGC)
 Computer Science (ECS) and other options (EGC)

Doctor of Philosophy in Chemical Engineering degree (ECH)
 Doctor of Philosophy in Civil Engineering degree (ECE)
 Doctor of Philosophy in Electrical Engineering degree (EEL)
 Doctor of Philosophy in Industrial Engineering degree (EIE)
 Doctor of Philosophy in Mechanical Engineering degree (EME)
 Doctor of Philosophy in Engineering Science degree (EGC)

Computer Service Courses

The above spectrum of program offerings provides the prospective student with a choice of avenues depending upon individual interests, career objective, 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:

<i>Area of Interest</i>	<i>Contact</i>
Engineering Professional Programs, Engineering Science, Computer Science, Information Systems	Specific department or Office of the Dean
Engineering Technology	Director of Engineering Technology
Computer Service Courses	Department of Industrial and Management Systems Engineering

PROFESSIONAL ENGINEERING

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 Five-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. 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.

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 program includes 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 stu-

dent's specialization (option) of sufficient depth to prepare him/her to successfully embark on a professional career.

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 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 profession is 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 designated engineering field degree programs, which require 136 semester hours, and the five year program leading to a concurrent Master of Science degree in the same designated engineering field, which is an integrated program of 166 semester hours, are the programs specifically designed to prepare an individual for a pro-

professional career as an engineer. These programs have as their foundation a 104 semester hour 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. Fields (Options) which are available and the administrative unit responsible for these are as follows:

Field/Option	Departments
General Engineering	All Departments
Chemical Engineering	Chemical and Mechanical Engineering
Computer Engineering	Computer Science and Engineering
Electrical Engineering	Electrical Engineering
Industrial Engineering	Industrial and Management Systems Engineering
Mechanical Engineering	Chemical and Mechanical Engineering
Structures, Materials, and Fluids	Civil Engineering and Mechanics

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, Electrical Engineering, Industrial Engineering, Mechanical Engineering, and Structures, Materials & Fluids options.

Preparation for Engineering

Students planning to attend USF's College of Engineering should familiarize themselves thoroughly with the college's admission 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. A foreign language, while not a necessity, provides a desirable background for students.

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 selects a summer program at the University of South Florida as a Pre-Engineering student in its Academic Services Division to update knowledge in mathematics and the physical sciences. Another alternative might be for the prospective Engineering student to take some remedial work and a less accelerated program as a Pre-Engineering student in the Academic Services Division of the University of South Florida. Students may wish to avail themselves of the state's system of junior/community colleges which offer a wide range of remedial course work, and many of which also offer full programs in pre-engineering (first two years' course work). The University of South Florida offers all required pre-engineering courses every semester. Therefore, every student can start the program at that point where his/her education terminated, and can proceed from that point at a rate consistent with the student's capability and time availability.

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 course work as is available to them. Transfer students should be aware that the college expects them to meet its admission requirements listed on pages 100-101 and the college regulations listed on page 102 just as it expects its own students to meet these requirements. The University's College of Engineering is available to assist junior/community colleges in the development of course material and in the training of staff for their offering of applicable core pre-engineering course work. Junior/community college transfer students should note that in addition to freshman and sophomore level courses, required junior level courses are given each semester thus permitting full continuity in studies for the student.

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 of a sound total

program. Interested students should contact the college's Advising Office furnishing sufficient details to permit meaningful response.

Admission to the College

Freshman and transfer students can apply to the College of Engineering's programs upon initial entry into the University by declaring the desired Bachelor degree program as their intended major. If not declared on initial entry, a USF student can at any time declare his/her intent to pursue a Bachelor's degree program in the college by applying to the Admission's Section of the Advising Office of the College.

To qualify for admission to a Bachelor's degree program in the College of Engineering a student must have been accepted by the University as a degree-seeking student, must be in good academic standing, and must be otherwise acceptable to the college. Increasing enrollment demand (prompted by growing demand for engineers and scientists), combined with limited resources, have forced the college to limit enrollment to maintain the quality of its programs.

Limited enrollment is implemented by admitting students to programs from the College's *Applicant Pool*. Minimum academic performance criteria to enter the *Applicant Pool* are shown below. All comparable applicants to College of Engineering programs are subject to the same entrance requirements whether transferring from within USF or from another institution. Satisfactory applicants are assigned to the College's *Applicant Pool* from which successful candidates are chosen. Unusually well qualified applicants may be immediately notified of their acceptance to the program of their choice.

Selection of students to fill programs is made by the College Admissions Committee using criteria such as educational objective, completion of appropriate prerequisite courses, performance in appropriate prerequisite courses, overall academic record, test data, personal record, recommendations, and other appropriate criteria. All selections are made in compliance with State University System admissions policies, the Statewide Articulation Agreement, and in order of qualification of the applicants.

To enter the *Applicant Pool* the following minimum academic performance criteria must be met:

I. All Bachelor of Science degree programs:

A. Freshmen:

1. Test Scores:

SAT - composite of 900 minimum and quantitative of 500 minimum.

ACT - composite of 20 minimum and mathematics of 20 minimum.

2. **High School Mathematics:** Grades of B or better. Must include sufficient algebra and trigonometry to enter Engineering Calculus.

B. Transfer Students (students entering from other schools as well as students transferring within USF):

1. Mathematics Preparation:

a. Completed College Algebra and College Trigonometry with a grade of B or better.

or b. Completed first term of applicable calculus with grade of B or better

or c. Completed two terms of calculus with grade of C or better.

2. Grade Point Average:

a. Freshmen and Sophomores: 2.4 minimum

b. Juniors and Seniors 2.2 minimum

II. Bachelor of Engineering Technology Program:

1. Mathematics Preparation:

a. Completed College Algebra and first applicable calculus course with grade point average of 2.5, no grade below C.

b. Completed applicable calculus sequence with grade point average of 2.0, no grade below C.

2. Grade Point Average:

a. Freshman and Sophomores: 2.4 minimum

b. Juniors and Seniors: 2.2 minimum

All students, undergraduate and graduate, whose native language is other than English, entering the College of Engineering must have taken, within the last year, the Test of English as a Foreign Language (TOEFL), and have the score sent to both the University's Admissions Office and to the College. A score of 550 or better is required.

Prospective students must comply with the following procedure

when applying to the College to enter the Applicant Pool:

1. Apply for admission to the University or be a degree-seeking student in the University.
2. Apply for admission to the College of Engineering by completing the College Application and sending it directly to the College of Engineering, Admissions Section. In addition:
 - a. The desired semester of entrance must be specified.
 - b. Freshmen and sophomores must request a copy of their high school transcript along with SAT and ACT test scores be sent to the College of Engineering, Admissions Section, in addition to records that must be sent to the University's Admissions Office.
 - c. Transfer students must request an official transcript from each previous college attended be sent to the College of Engineering, Admissions Section, in addition to transcripts that must be sent to the University's Admissions Office.
 - d. Students whose native language is other than English must request a copy of TOEFL scores be sent to the College of Engineering, in addition to scores that must be sent to the University's Admissions Office.
3. Applications and necessary records must reach the College no later than dates indicated below:

For Fall Semester 1982: June 4, 1982
 For Spring Semester 1983: October 15, 1982
 For Summer Semester 1983: February 11, 1983.

Applicants who are not selected and who wish to remain in the Applicant Pool for a future semester must request in writing that the College update their application for the future term and must supply updated records.

Potential students should note that the critical course structure of the college's programs makes it desirable to enter the college as soon as the interest in, and the potential ability for, engineering or related studies is recognized. The characteristics of an engineering or related program do not require an identification of the area of specialization at the time of entering the college. A student who is undecided on his/her area of specialization can declare the General Option of the Bachelor of Science in Engineering degree program at the time of entry and later transfer to his/her specific program. However, students need to make this decision no later than their junior year.

Engineering coursework identified as 3000 level or higher is considered professional level work and students enrolling for these courses must have been admitted to the college. Exceptions must receive *prior* permission from the Office of the Dean or the department chairman responsible for the coursework and must demonstrate that they meet the college's entrance requirements as well as all prerequisites for the course involved.

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 freshman year. It is therefore important, and the college requires, that each student plan a curriculum with, and has it approved by, a faculty adviser in the College of Engineering.

Students accepted to the college from within the University must contact the College's Coordinator of Engineering Advising in the Dean's Office for a faculty adviser assignment. 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.

Students who have made a decision regarding the specific engineering field they plan to follow may be assigned a faculty adviser in the department corresponding to their interest. Students who have decided to follow a program of engineering studies but who are undecided on the specialty are advised in the Dean's Office and are assigned to the General Option of the BSE program.

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. A student may change advisers with the concurrence of the new adviser and the Dean's Office. The advisers maintain the College of Engineering's student records.

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

Departments & Programs

The supervision of the academic programs for the college is the function of the five 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. See also page 109 for College Facilities.

Chemical and Mechanical Engineering

This department offers study pertinent to the analysis and design of machines and systems needed by our modern society, through courses dealing with the classical Mechanical and Chemical Engineering subjects of lubrication, vibration and fatigue analysis, machine design, thermodynamics, heat transfer, environmental control, transport phenomena and reactor dynamics. In addition, it provides instruction in other fields of increased importance to the engineers of the future. Some of these fields are computer simulation, instrumentation, automatic control, power utilization, acoustics, and nuclear processes and the design and evaluation of innovative systems for energy utilization and pollution control. This department administers the *Chemical Engineering Option (program)* and the *Mechanical Engineering Option (program)* of the Bachelor of Science in Engineering (B.S.E.) degree program, the Bachelor of Science in Chemical Engineering (B.S.Ch.E.), and the Bachelor of Science in Mechanical Engineering (B.S.M.E.) degree programs, and the Master of Science in Chemical Engineering (M.S.Ch.E.) and the Master of Science in Mechanical Engineering (M.S.M.E.) programs. Evening graduate programs are available. As applicable, the department administers the M.S.E., M.E., M.S.E.S. and the Ph.D. in Chemical Engineering and in Mechanical Engineering programs.

Civil Engineering and Mechanics

This department offers courses work and study pertinent to Civil Engineering, Engineering Mechanics, and Materials Science. Topics included are structural analysis, design and optimization; metals, polymers, ceramics; solid and fluid mechanics, stress analysis, vibration, continuum mechanics, aerodynamics, gas dynamics wave propagation, numerical methods; water resources, waste treatment, environmental engineering, and coastal engineering. The department administers the *Structures, Materials and Fluids option (program)* of the Bachelor of Science in Engineering (B.S.E.) degree program, and offers several concentrations within this option. It also administers the Bachelor of Science in Civil Engineering (B.S.C.E.) and the Environmental Engineering Science option of the Bachelor of Science in Engineering Science (B.S.E.S.) degree programs and the Master of Science in Civil Engineering (M.S.C.E.) program, including a three year evening program. As applicable the department administers the M.S.E., M.E., M.S.E.S. and the Ph.D. in Civil Engineering programs.

Computer Science and Engineering

This department offers course work and study in all areas fundamental to Computer Engineering, Computer Science and Information Systems. Topics dealt with are software engineering, programming languages, computer algorithms, computer hardware engineering, computer networks and distributed computing, artificial intelligence, databases and theory of computation.

The department operates microprocessor laboratories equipped with modern micro-computers some of which form networks. The department also operates a graphics laboratory equipped with modern storage devices and a substantial number of graphics-oriented personal computers. A PRIME 750 medium-scale computer is used to support several software-related courses. The PRIME computer also functions as a node of a college-wide network of three computers. The department administers the Bachelor of Science in Computer Engineering, degree program as well as the Computer Science and Information Systems Option of the Bachelor of Science in Engineering Science degree program. In addition it administers the Master of Science in Computer Engineering degree program. Evening graduate programs are available. As applicable, the department administers the M.S.E., M.E., M.S.E.S., and the Ph.D. program.

Electrical Engineering

This department offers study in all areas fundamental to Electrical Engineering and the electrical sciences: circuit analysis and design, electronics, communications, electromagnetics, control, solid state, systems

analysis, digital circuit design, etc. Basic concepts are augmented with well-equipped laboratories in networks, electronics, automatic control, digital systems, electromechanics microwave techniques and communications. In addition, a small 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., 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 control, inventory control, data processing systems design, statistics and operations research models. The modern Industrial Automation and Control Laboratory supports research and coursework in microcomputer, industrial control, computer-aided manufacturing, and application of robotics. The department administers the *Industrial Engineering Option (program)* of the Bachelor of Science in Engineering (B.S.E.) degree program, 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 the Master of Science in Engineering Management (M.S.E.M.) programs. Evening graduate programs are available. As applicable, the department administers the M.S.E., M.E., M.S.E.S. and the Ph.D. in Industrial Engineering programs. The department also instructs students in Computer Service courses offered by the University of South Florida.

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 course work which is required of all students. This course work 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 four key elements; a solid foundation in science and mathematics, a basic understanding of all major engineering disciplines, familiarity with Social Science and Humanities—to develop the whole individual, and good communication skills.

This common foundation of 104 minimum semester hours breaks down as follows for most programs:

Social Science and Humanities Core (including communication skills)	31 credit hrs. min.
Mathematics and Science Core	35 credit hrs. min.
Engineering core	38 credit hrs. min.

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. Social Science and Humanities Core Requirements (31 credit hours)

Prospective Engineering majors must take 6 hours of Freshman English (ENC 1102, 1135) in their first two semesters.

An additional 25 credit hours of course work is required in this core area, of which at least 17 hours must be selected from the current "Approved Social Science and Humanities Courses" list for Engineering and Engineering Science students. A minimum of 8 credit hours of this course work must be of 2000 level or higher. At least 6 credit hours must be taken in each the Humanities/Fine Arts area and the Behavioral and Social Sciences area (to meet the University's General Distribution Requirements). It is recommended that the student pursue specific subject areas to some depth, since this develops areas of knowledge and interests which aid fuller development of the individual and later assist in relating a professional career to non-technical environments and situations.

It is desirable that at least 24 hours of this course work 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 and who have met that college's General Education Requirement will normally find that their General Education course work satisfies the major portion—but not all—of the Social Science and Humanities Core requirement.

Credit by Examination can be obtained for some of this course work. CLEP General Examination credit, acceptable to the University's is accepted for the areas of English Composition, Humanities and Social Science. Credit for CLEP Subject Examinations and CEEB Advanced Placement Tests can be accepted when the subject covered is recognized to be equivalent to USF course(s) on the "Approved Social Science 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 (35 credit hours)

The student with a satisfactory high school preparation must take 35 credit hours of mathematics and science course work. (Some credit towards this core requirement can be obtained by passing applicable CEEB Advanced Placement Tests or CLEP Subject Examinations.)

In mathematics this course work consists of a Calculus for Engineers sequence (or a calculus sequence of equivalent level), differential equations, and 5 hours of other designated courses supportive of the student's selective field of specialization.

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.

3. Engineering Core Requirements (38 credit hours minimum)

The prospective engineering major must take 38 credit hours of engineering core (foundation) course work drawn from the major disciplines. This course work is designed to equip the student with a sound technical foundation for later more advanced specialized course work and the eventual formation of professional judgment. This course work 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 course work 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 (EGU) 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 course work—minimum of 104 credit hours—which are described above, and an additional 32 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 (32 credit hours)

All professional departments may offer the general option of the Bachelor of Science in Engineering degree which consists of 32 credit hours of course work individually arranged by the student with the approval of the student's adviser. This option is used where a student wishes to deviate from a prescribed disciplinary program utilizing course work from several different disciplines both within and without the College of Engineering.

Pre-medical students follow this option. It accommodates up to 32 hrs. of special pre-med course work (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 (32 credit hours)

Students pursuing the *Chemical Engineering Option* of the Bachelor of Science in Engineering program or the Bachelor of Science in Chemical Engineering program take designated, specialized course work in advanced chemistry, thermodynamics, energy conversion, separation processes, transport phenomena, heat and mass transfer, reacting systems, process control systems, as well as approximately 10 credit hours of chemistry and technical electives. Students must also satisfactorily complete a design and/or case study as part of their program. Special characteristics of the *Chemical Engineering program* make it imperative that students retain constant close contact with their adviser.

Students completing this program normally pursue careers in chemical process industries, in public service (regulatory, planning and/or environmental), or in consulting or research. Products covered include paper and pulp, petroleum and petrochemicals, polymers and fibers, synthetics, pharmaceuticals, foods, fertilizers, etc. Such modern societal problems as controlling pollution, handling wastes, advancing medical technology, providing food and energy more efficiently, etc., depend on the chemical engineer, among others, for the solutions.

3. Computer Science and Engineering

The Bachelor of Science in Computer Science degree program emphasizes design and utilization of computers. The Computer Science Option of the Bachelor of Science in Engineering Science which deals with basic and formal aspects of computation and the Information Systems Option of the Bachelor of Science in Engineering Science with emphasizes application and data processing aspects of this field. (See the Bachelor of Science in Engineering Science degree program on page 107.) Courses range from studies in software engineering, programming languages, data structures, data base systems, operating systems, and systems analysis to the analysis of computer architecture and organization, logic design, automation theory, distributed computing, microprocessors and reliability considerations. Finally a number of specialized electives allows concentration on applications of computers to a variety of activities such as scientific computation, computer-aided design, business systems, biomedical research, and pattern recognition.

Graduates from these programs follow fruitful careers in either scientific or business application of computers. 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, often following graduate training, are present in the areas of artificial intelligence, software engineering, digital data communications, database management, fault-tolerant computing and testing, microprogramming and simulation.

4. Electrical Engineering (32 credit hours)

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, specialized course work in network analysis, electronics, communications, electromagnetic theory, linear system and control system analysis, and microelectronics. This course work is supplemented by electives in logic, sequential circuits, digital system design and microprocessors; distributed networks and UHF principles, and/or electromechanics and power system analysis.

Students completing this option 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 the research and development (often requires also an advanced degree), design, production, operation, sales, or management of these products/services.

5. Industrial Engineering (32 credit hours)

Students pursuing the *Industrial Engineering Option* of the Bachelor of Science in Engineering program or the Bachelor of Science in Industrial Engineering program take designated, specialized course work in Industrial processes and production control; engineering valuation; network modeling, computer simulation and systems analysis; operations research; design of experiments and engineering statistics. This course work is supplemented by courses in production and facilities design; computer languages, systems, and projects, and quality control.

Students completing this option enter careers in a broad range of industries, businesses and governmental and public service areas. Their preparation covers activities common to all types of organizations; planning, analysis, implementation, and evaluation. In addition to traditional career opportunities in production and process areas of high-volume industries, the industrial graduate nowadays finds challenging careers in hospitals, transportation and service industries, and in municipal, county, state and federal administration.

6. Mechanical Engineering (32 credit hours)

Students pursuing the *Mechanical Engineering Option* of the Bachelor of Science in Engineering program or the Bachelor of Science in Mechanical Engineering program take designated, specialized course work in thermodynamics and heat transfer; physical measurements and energy conversion; machine analysis and design; mechanical design and controls; and fluid machinery. This is supplemented by elective coursework in such areas as power plant analysis, nuclear and reactor engineering; refrigeration and air conditioning; acoustics; lubrication; and vibration and balancing.

Students completing this option normally enter careers as design, consulting, research and development, or sales engineers in a wide range of industries which either turn out mechanical products or rely on mechanical machines, devices, and systems for their production. Thus, mechanical graduates may follow careers in such fields as transportation, power generation and conversion, instrumentation, automatic control, machine design and construction, refrigeration, heating, and air conditioning. These opportunities occur in many industries because mechanical processes are required for most industrial production.

7. Structures, Materials and Fluids (32 credit hours) (Department of Civil Engineering and Mechanics)

Students pursuing the *Structures, Materials and Fluids Option* of the Bachelor of Science in Engineering program or the Bachelor of Science in Civil Engineering program take designated traditional civil engineering and engineering mechanics course work in solid mechanics, stress analysis, structures, materials, hydraulics, water resources, and engineering analysis. This course work is supplemented by courses in one of the following areas of concentration, plus electives.

- Materials* concentration—courses in engineering materials, polymers, corrosion and materials processes.
- Structural Engineering* concentration—courses in structural analysis design, composite structures, connecting matrix and computer techniques.
- Water Resources* concentration—courses in water resources, hydrology, and urban water systems.

Students completing this option enter careers as engineers in the civil, structural, sanitary, environmental, hydraulics, materials, engineering mechanics, aeronautical, etc., 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 his academic studies specifically towards his/her career choice. *Structures, Materials and Fluids* (or Civil Engineering) students commence their engineering careers in either industry, with 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; research and development of new materials, material processes and testing procedures; design of bridges, single and multistory structures; supervision of construction projects.

8. Other Options (32 credit hours)

Students should recognize that the title of an academic program to prepare for a specific engineering career may differ from the career title. The USF Bachelor of Science in Engineering degree option titles or the Bachelor of Science in a Designated Engineering Field degree titles are descriptive of the academic discipline the specialization studies draw on. The field of product or engineering application frequently is used in describing engineering career titles. The following table may help prospective students to identify desired USF programs.

<i>Engineering Career</i>	<i>USF Field/Option</i>
Aerospace	Electrical Engineering, Mechanical Engineering or Structures, Materials and Fluids.
Biomedical	Usually Electrical Engineering (should plan on graduate studies.)
Civil	Structures, Materials, and Fluids
Energy	Mechanical Engineering
Engineering Mechanics	Structures, Materials, and Fluids
Environmental	Structures, Materials, and Fluids
Petroleum	Chemical Engineering
Solar Energy	Mechanical Engineering

■ FIVE-YEAR-PROGRAM—MASTER OF SCIENCE IN ENGINEERING DEGREE (EGG)

This program consists of a minimum of 104 credit hours of core course material plus 62 hours of specialization including a maximum of 12 hours of research or design project. Students are admitted to this program early in the beginning of their fourth year of study based on an evaluation by the faculty of their department. Unlike the traditional master's degree which is attempted as a fifth year after completion of the baccalaureate degree in this program both the fourth and fifth years are open to graduate level course work so that additional calendar time is available for design or research projects.

The program leads concurrently to both the Master of Science in Engineering degree and the Bachelor of Science in Engineering degree (or alternately the Master of Science and the Bachelor of Science in a Designated Engineering Field degrees) with the specialization phase of the program being individually arranged and involving course work, design, research and/or operational experience. Should the student be unable to complete the full five years, the baccalaureate can be awarded provided the requirements for that degree have been met. Either an engineering report or a research thesis is required. See later section relative to master's program for additional information.

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.

Florida community college transfer students who have completed their General Education Requirements will not have to meet USF's General Distribution requirements. However, as is the case with USF students who have to take more than the minimum Distribution Requirements coursework in this area, the community college transfer student must expect to take some additional carefully selected upper level coursework in this area to meet the education standards for professional engineering programs in the Social Science and Humanities area.

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 Requirements* 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 course work 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 Office of the Dean.

4. Continuation Requirements

All undergraduate students registered in the College of Engineering are expected to maintain the minimum of 2.0 average ("C" average) for all work attempted while registered in the college, as well as a minimum 2.0 average for all Engineering course work attempted of 3000 level or above, or the more stringent requirements of specific limited access programs, where applicable. Students who do not maintain this requirement will be declared ineligible for further registration for course work and degree programs in the college unless individually designed continuation programs are recommended and have been prepared by the student's adviser and approved by the academic committee of the college.

Key courses, including but not limited to, Freshman English, Calculus, Physics, and Engineering and Science courses in the student's area of specialization, must be passed with a grade of "C" or better before taking the next course in the sequence.

Transfer credit will be accepted by USF's College of Engineering if the transferred course has been passed with a satisfactory ("C") grade or better and when the first USF course following in sequence is also passed with a "C" grade or better.

Students pursuing College of Engineering degree programs are expected to take their courses on a graded (ABCD) basis. (Exceptions are required courses not available on a graded basis.)

Students receiving "I" grades must remove this deficiency at the first opportunity in accordance with a written agreement between student and instructor.

Continuation in the program after 3 withdrawals and/or failures in a specific engineering course of 3000 level or higher, requires specific approval from the college.

5. Requirements for Graduation

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. It is expected that students completing their master's program would have completed their advanced work with a minimum average of 3.0 or "B". Students attempting but not completing their master's requirements through the five-year Masters degree program may elect to request the awarding of the bachelor's degree, provided they have met that degree's requirements.

The college requires that a student complete the Mathematics and Science Core, Engineering Core, and specialization requirements for the baccalaureate degree in seven years. Deviations require specific prior permission from the Dean of the college.

In addition to the college requirements listed above, degree candidates are expected to meet applicable special departmental requirements.

Engineering Master's Degree Programs

The College of Engineering offers four professionally oriented programs leading to a degree at the master's level. These are the post-baccalaureate Master of Science in Engineering degree program, the Master of Science

in a Designated Engineering Field degree program, Master of Engineering degree program, and the Five-Year Master of Science in Engineering degree program. Each professional department may elect to award one of these degrees depending upon prior arrangements with the student. Admission to the Master's program is dependent upon a favorable evaluation by the department concerned. Applicants are expected to meet the minimum requirements of the University and those outlined below and in addition any special requirements specified by the departments.

■ POST-BACCALAUREATE MASTER OF SCIENCE IN ENGINEERING DEGREE (EGP) (Undesignated)

The graduate program of the college is designed for those students wishing advanced study which is research or design oriented and not restricted to a single engineering discipline.

Entrance Requirements

1. A baccalaureate degree in Engineering from an approved institution is required. Degrees in Mathematics, Physics, Chemistry and other fields may be accepted on an individual basis to meet this requirement. In such cases it is probable that supplemental remedial work in engineering will be necessary.
2. A minimum total score of 1000 on the verbal and quantitative portions of the Graduate Record Examination and/or a minimum grade point average of 3.0 out of a possible 4.0 for all work attempted during the last two years of undergraduate work is required.
3. Those who do not meet the regular entrance requirements may attempt a trial program as a Special (non-degree seeking) Student. Up to 12 hours of work attempted on this basis may be accepted into a graduate program upon satisfactory completion. Before attempting such a trial program the student should determine from the departmental adviser a list of courses and performance criteria for admission.

Program Requirements

1. A minimum of 30 credits of approved course work is required.
2. An overall grade point average of 3.0 is required for all work attempted in the program. No grade below "C" may be accepted in a graduate program. In the event that a student's average drops below 3.0 the student will be placed on a probationary status and must obtain a directed program from his/her adviser approved by the Dean, prior to continuing course work toward the degree.
3. All students are required to pass a final comprehensive examination which may be written or oral prior to awarding the degree. These examinations are arranged and administered by the student's graduate committee.
4. Students in this program must complete a design or research project on which up to 6 credits may be used to fulfill degree requirements. The course titled "Masters Thesis" in the student's department is to be used.
5. If a thesis is submitted it must be in accordance with the *Handbook for Graduate Thesis and Dissertations*, University Graduate Council. For design projects a comprehensive report must be filed with the Office of the Dean of Engineering following, where practical, the guidelines of the handbook.

Students working on design and research projects must register for a minimum of 2 credits of the course titled "Masters Thesis" in the student's department each quarter the staff, facilities, and laboratories of the University are used whether or not the student has accumulated the maximum credit allowed for research or design toward the degree. All students must register for 2 credits of the course titled "Masters Thesis" in the student's department during the semester in which they submit their thesis or project report.

■ POST-BACCALAUREATE MASTER OF SCIENCE IN A DESIGNATED ENGINEERING FIELD DEGREE

This graduate program of the College is designed for students wishing advanced study in a specific field of engineering. The following

designated programs are offered by the departments listed:

Program	Department
Master of Science in Chemical Engineering (ECH)	Chemical & Mechanical Engineering
Master of Science in Civil Engineering (ECE)	Civil Engineering & Mechanics
Master of Science in Computer Science (ECP)	Computer Science & Engineering
Master of Science in Electrical Engineering (EEL)	Electrical Engineering
Master of Science in Engineering Management (EMA)	Industrial & Management Systems Engineering
Master of Science in Industrial Engineering (EIE)	Industrial & Management Systems Engineering
Master of Science in Mechanical Engineering (EME)	Chemical & Mechanical Engineering

Entrance Requirements

A bachelors degree in an ABET accredited engineering program in the field of projected graduate study is expected, where applicable. All other entrance requirements for this program are the same as those for the Post-Baccalaureate Master of Science in Engineering undesignated degree program.

Program Requirements

1. A minimum of 30 credits of approved course work is required.
2. An overall grade point average of 3.0 is required for all work attempted in the program. No grade below "C" may be accepted in a graduate program. In the event that a student's average drops below 3.0 the student will be placed on a probationary status and must obtain a directed program from his/her adviser approved by the Dean, prior to continuing course work toward the degree.
3. All students are required to pass a final comprehensive examination which may be written or oral prior to awarding the degree. These examinations are arranged and administered by the student's graduate committee.
4. Students in this program may have to complete a design or research project when invoked by the department on which up to 6 credits may be used to fulfill degree requirements. The course titled "Masters Thesis" in the student's department is to be used.
5. If a thesis is submitted it must be in accordance with the *Handbook for Graduate Thesis and Dissertations*, University Graduate Council. For design projects a comprehensive report must be filed with the Office of the Dean of Engineering following, where practical, the guidelines of the handbook.

Students working on design and research projects must register for a minimum of 2 credits of the course titled "Masters Thesis" in the student's department each semester the staff, facilities, and laboratories of the University are used whether or not the student has accumulated the maximum credit allowed for research or design toward the degree. These students must register for 2 credits of the course titled "Masters Thesis" in the student's department during the semester in which they submit their thesis or project report.

■ MASTER OF ENGINEERING DEGREE PROGRAM (EGM)

This non-thesis degree program is designed primarily to meet the needs of engineers actively engaged in the profession who wish to pursue graduate study at the master's level not covered by the designated Master of Science in Engineering degree programs.

Entrance Requirements

Entrance requirements for this program are the same as those for the post-baccalaureate Master of Science in Engineering degree program (undesignated).

Program Requirements

1. A minimum of 30 credits of approved course work is required.
2. Students must maintain overall grade point average of 3.0 out of possible 4.0. No grade below "C" will be accepted in a graduate program. In the event that a student's average falls below 3.0 the

student will be placed on probationary status and must obtain a directed program from his/her adviser and approved by the Dean prior to continuing further course work toward the degree.

3. All students are required to pass a final comprehensive examination which may be written or oral prior to awarding the degree. These examinations are arranged and administered by the student's department.
4. Students in this program must register for and take a comprehensive examination during the semester in which they apply for the degree. This credit may not be used as part of the course work requirement. Contact department for details.

■ THE ENGINEERING FIVE-YEAR MASTER'S DEGREE PROGRAM (EGG)

This program consists of a minimum of 166 credits of course work and results in concurrent awards of the Bachelor of Science and Master of Science in Engineering degrees, or Bachelor of Science and Master of Science in a Designated Engineering Field degrees. Unlike traditional master's programs following the baccalaureate degree, in this program both the fourth and fifth years are open to graduate level study so that additional calendar time is available for research or design projects.

Entrance Requirements

1. Students who have senior standing (90 credits) with at least 16 upper level engineering credits completed at the University of South Florida in their engineering curriculum may apply for admission to the Five-Year Program.
2. A minimum total score of 1000 on the verbal and quantitative portions of the Graduate Record Examination is expected.
3. Above-average performance in the engineering program is expected.

Students apply for admission to this program through their department. They should consult their adviser when they need additional information.

Program Requirements

1. A minimum of 166 credits of approved course work must be compiled. Of this total, 104 credits must comprise the engineering central core with an additional 62 credits of specialization. A maximum of 12 credits may be allowed for design and research.
2. Students admitted to the five-year program are expected to maintain a superior level of academic performance. A 3.0 out of a possible 4.0 grade point average is expected in the courses constituting the student's graduate program. A student in the Five-Year Program who fails to maintain the required academic standards will be placed on probation. Failure to comply with the terms of the probation will result in the student being dropped from the program.
3. Students in this program must complete a design or research project of which up to 6 credits of 4000 level project course work of appropriate departmental prefix and up to 6 credits of the course titled "Masters Thesis" in the student's department may be used to fulfill degree requirements.
4. If a thesis is submitted it must be in accordance with the *Handbook for Graduate Thesis and Dissertations*, University Graduate Council. For design projects a comprehensive report must be filed with the Office of the Dean of Engineering, following where practical the guidelines of the handbook.
5. All students are required to pass a final comprehensive examination which may be written or oral prior to awarding the degree. These examinations are arranged and administered by the student's graduate committee.

■ DOCTOR OF PHILOSOPHY DEGREE IN DESIGNATED ENGINEERING FIELD

The Doctor of Philosophy degree is awarded in recognition of demonstrated proficiency and high achievement. It is altogether a different type of educational endeavor than that of the Baccalaureate or

even Master's programs. The Ph.D. degree cannot be gained merely by diligent application to a prescribed course of study over a period of years, nor can it be awarded for miscellaneous study. After adequate fundamental preparation the student must complete a searching and authoritative investigation of a special area of the field of his/her choice, culminating a written dissertation covering that investigation. The dissertation must demonstrate that the student possesses considerable power of original thought, talent for research and ability to organize and present his findings.

Entrance Requirements

1. An undergraduate degree in engineering or the sciences with a minimum GPA of 3.0 in junior-senior work in the major area of concentration.
2. A minimum GRE score of 1000 (verbal and quantitative).
3. Applicants who do not hold a bachelor's degree from an ABET (formerly ECPD) accredited program may be required to show proficiency in areas of the undergraduate Engineering Sciences designated by the department or departments associated with the applicant's research area. An area of concentration is defined as a coherent group of engineering studies but not necessarily located within a single department.

Program Requirements

1. An adviser or an Advisory Committee will be appointed by the chairman of the appropriate department or program for each student during the first semester of registration at the University of South Florida. This adviser or committee will assist in determining the student's area of research interest and to initially delineate preliminary course assignments. At the earliest possible date a Supervisory Committee is appointed which will serve as the Dissertation Committee. It prepares the student's program and has full responsibility for preparing (or having prepared under its supervision) the individual's qualifying examination. The Supervisory Committee consists of a minimum of five members, one external to the College of Engineering. A majority of the committee will be from the College of Engineering with at least two departments represented from the college.
2. A total of 90 semester hours minimum beyond the baccalaureate degree (including dissertation research) is required with a minimum of 27 hours in an engineering area of concentration. The 27 hours may not necessarily be course work of the same department but must focus directly upon the area of concentration and at least 20 hours must be at the 6000 level. A minimum of 8 hours of mathematics or statistics is required. Engineering mathematics may be approved by the committee if appropriate. In addition, a minimum of 8 hours of course work as defined by the committee outside the major area of concentration is also required. This may include natural sciences, earth sciences, social sciences, additional statistics, or approved support in other areas of engineering. Further requirements may be imposed by the candidate's committee. At least 8 hours of course work must be taken outside the major department, if there is a major department.
3. A reading knowledge of two foreign languages. Competence in a computer language or other special work done outside the student's field of concentration may be substituted for one of these when recommended by the student's Dissertation Committee and approved by the Dean of the college.
4. All prospective candidates must pass both parts of a Ph.D. qualifying examination, a general area of mathematics and a prescribed area of Engineering Science concentration. This examination must be taken after the student has completed appropriate studies usually equivalent to one year's course work. Students entering with a Master's degree must take this examination before the end of the first year after admission to the program.
5. A written and oral Comprehensive Qualifying Examination prepared and administered by the Dissertation Committee will be taken by each Ph.D. student as soon as a substantial majority of the coursework is completed. Completion of this requirement admits the student to candidacy.
6. The defense of the dissertation will be in accordance with the University's general rules and regulations.
7. A minimum residency requirement may be satisfied by completing at the University of South Florida beyond the master's degree or equivalent the following: (1) the University's minimum require-

ment, or (2) 24 semester hours in one calendar year, or (3) 30 semester hours in no more than 4 semesters within a period of 3 calendar years. Any graduate work counted toward the fulfillment of the requirement of the Ph.D. degree after admission to candidacy must be accomplished within a 7-year calendar period.

8. Throughout the student's program of study, independent learning will be emphasized. For the first time in the participant's career, in most cases, the student will be responsible for mastering a new domain of knowledge without the aid of organized lectures and textbooks. The principal information source will be the current literature. Such experience is necessary preparation for a meaningful career in engineering and other fields where the participants face the requirements of keeping pace with a large, ever-changing body of knowledge.
9. The student must carry out an investigation of such quality that he/she can either make an independent, or original contribution to the knowledge in his/her field, or a new and better interpretation

of facts already known. The requirement of uniqueness means that the dissertation research will provide an important creative experience for the student. Successful completion of this experience makes the Ph.D. program a valuable career preparation for every aspect of the engineering profession. As the final stage of the student's program, he/she must prepare a written dissertation covering the research. Students in the Ph.D. program must take an appropriate number of Doctoral Dissertation credits but not less than 20 semester hours; the exact number is determined by department and/or individual requirements.

10. An all college advanced graduate advisory committee reports to the Dean of the College of Engineering. This committee receives copies of all programs arranged for the students by their advisory committees as well as copies of qualifying examination and examinations for admission to candidacy. This committee provides recommendations to the Dean, department heads, and advisory committees relative to programs, procedures and examinations.

APPLIED SCIENCE (ENGINEERING)

Degree programs in Engineering Science are offered by the College of Engineering Science which are designed for students who wish to obtain a strong technical background coupled with other interests.

Engineering Science is an applied science discipline which relates to new and innovative areas of endeavor at the frontiers of technological development and research. It represents a marriage between basic science and its utilization in such varied fields as computer science, biology, social and environmental sciences, applied mathematics, bio-medical engineering, ocean engineering, and energetics. The common denominators to this wide range of subjects is a strong foundation in rigorous scientific and engineering principles and practices.

This training provides a most desirable background for graduate study in the areas of concentration mentioned and in other professional areas such as law, medicine, and business.

Preparation for Engineering Science

Students anticipating pursuit of studies in Engineering Science should follow the guidelines given for Engineering in this catalog when planning their high school and/or community college studies.

Admission to Engineering Science

Admissions requirements and procedures are the same as for Engineering. See *Admission To College*, pages 100-101.

Engineering Science Advising

Students pursuing a course of study in Engineering Science are assigned to an adviser who is familiar with the requirements of this program and whose special interests match the student's specialization objectives. Comments and requirements spelled out in the section of Engineering Advising in this catalog are applicable to this program.

■ FOUR-YEAR PROGRAM—BACHELOR OF SCIENCE IN ENGINEERING SCIENCE DEGREE (EGC)

The College of Engineering offers a curriculum leading to the Bachelor of Science in Engineering Science degree which stresses the scientific aspects of engineering. The curriculum is a four year program with a minimum requirement of 120 semester hours, and it provides the student with an unusual depth of study in mathematics, science, and engineering without limiting the opportunities to broaden one's education in humanities and social sciences. The exact composition of the curriculum followed by a given student is determined by the student with the advice and consent of the academic adviser, and based on the option chosen.

The Computer Science and Engineering department offers the *information systems* option which emphasizes application and data processing aspects of this field. Unlike other BSES options, the degree requirement for this option is 136 semester hours.

For more information see *Computer Science and Engineering*, page 101.

An option in *Applied Mathematics* covers applied analytical techniques to establish a more fundamental understanding of basic physical phenomena leading to engineering applications. Areas of mathematics considered from an applied viewpoint include modern algebra, theory of algorithms, classical advanced calculus, complex variables, probability and statistics, numerical procedures, approximation theory, operations research, and applied mathematical programming. The use of computers is emphasized. This program provides the student with an opportunity that is not available in either a pure mathematics curriculum or in a design-oriented engineering program.

The Civil Engineering and Mechanics department offers an option in *Environmental Engineering Science* designed for students who desire to develop the broad interdisciplinary background necessary for careers in environmental protection with industry and government. Training is provided in the sociological sciences of politics, government, and social science; the communication arts (speaking and writing); and the scientific and technological aspects of air, water, and noise pollution.

Other options are designed for such areas as *Ocean* and *Energetics*.

Baccalaureate Requirements (minimum 120 credit hours)

The Bachelor of Science in Engineering Science degree program requires a strong foundation in mathematics and science, foundation course work in the humanities, social sciences, and other non-technical areas, a basic knowledge of engineering fundamentals, and culminates in approximately one year of specialized—often interdisciplinary—studies. These basic requirements are further listed below.

1. Humanities, social science, and other non-technical areas requirements (29)
2. Mathematics and science requirements (30)
3. Engineering Science core requirement (29)
4. Specialization requirement (32)

(There are some variations from these numbers in defined options, for example the options offered by the Computer Science and Engineering department.)

Other Requirements for Engineering Science

The College's English, Mathematics, Continuation, and Graduation requirements for the Engineering Science degree program are applicable to the Engineering Science degree program.

■ FIVE-YEAR PROGRAM—MASTER OF SCIENCE IN ENGINEERING SCIENCE DEGREE (EGF)

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

Science and Master of Science in 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 for 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 in the engineering science curriculum.
2. A minimum score of 1000 on the verbal and quantitative portions of the Graduate Record Examination is expected.
3. Above-average performance in the engineering science program is expected.

Students following the *Computer Science* option can obtain through this program a deeper specialization required of those engaged in advanced research and development.

■ POST-BACCALAUREATE—MASTER OF SCIENCE IN ENGINEERING SCIENCE DEGREE (EGC)

The admission and program requirements (minimum 30 credit hours)

ENGINEERING TECHNOLOGY

The College of Engineering offers a program leading to the degree of Bachelor of Engineering Technology to serve educational needs in engineering-related technology areas, including Computer Technology. The program normally provides for two years (60 min. credit hours) of study at the University of South Florida following two years (60 credit hours) of successful study in an engineering technology program which has led to an Associate of Science degree. Many Engineering Technology programs of the State System of Community Colleges uniquely mate with this program.

■ BACHELOR OF ENGINEERING TECHNOLOGY (ETK)

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 professional engineers, technicians and management. It is for this reason that the program consists of a balance of course work in technical management, and Liberal Arts and Social Science areas.

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

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

for this degree are essentially the same as those itemized for the Engineering Master's Degree Programs, page 105.

To meet the student's specific Engineering Science objectives, each department, or college, may elect to award this degree dependent on prior arrangement with the student.

Students entering the *Computer Science* concentration of this program without a baccalaureate degree in Computer Science may have to take supplemental remedial coursework.

Students with interests in Bio-medical engineering should have a well above average undergraduate preparation in one of the traditional fields of engineering.

■ DOCTOR OF PHILOSOPHY DEGREE IN ENGINEERING SCIENCE (EGC)

This program is designed to meet the needs of students desiring to pursue doctoral studies in Computer science and Engineering and other fields of competence of the college which are not covered by the Doctor of Philosophy Degree in a Designated Engineering Field program. The same general conditions, entrance requirements, and program requirements are applicable. See page 106.

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.

Students entering this program will have their transcript annotated as to the institution from which their technical training was received as well as their technical specialization as designated by that institution.

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 into this program. The College's admissions requirements and procedures are listed on page 100. 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.

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
830 First Street, South
St. Petersburg, Florida 33701
or
Director of Engineering Technology
College of Engineering
University of South Florida
Tampa, Florida 33620

Other Requirements

The following supplemental requirements listed on page 102 are applicable to this program.

English Requirement

Mathematics Requirement

Continuation Requirement

Note that key courses, including but not limited to, Freshman English, Calculus, Physics, Engineering, and Science courses in the student's area of specialization, must be passed with a grade of "C" or better before taking the next course in the sequence.

In addition to the completion of the course work to the college, students must be recommended for their degrees by the faculty of the col-

lege. 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.

Location

The course work for this program is offered on both the Tampa campus and the St. Petersburg campus. On occasion, it may be necessary for a student at the St. Petersburg campus to go to the Tampa campus for a specific course, or vice versa. It should be noted that the St. Petersburg campus does not have dormitory facilities and students must arrange to live off campus. The Center Administrator of the St. Petersburg campus will assist where possible in locating housing.

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. These courses do not require a mathematics preparation beyond high school level.

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/1, COBOL, PASCAL and BASIC.

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

Students have access to the University's IBM 3033 system and the College's extensive Prime 750 ring network computer system in support of their course work. In addition, the College has a wide range of specialized equipment, such as a thin-film and hybrid circuits facility, a high-current test facility, a gas chromatograph/mass spectrometer, specialized computers and computer laboratories such as a DEC PDP 11/44 database and a color computer graphics laboratory, a differential thermal analyzer, a vacuum dry box, and X-ray diffraction unit, estuary current meters, water-quality-analysis test equipment, flow visualization equipment, a 250 kip materials testing system, a computer-aided manufacturing system, and industrial robot, and a well-equipped and staffed machine shop.

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 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 freshman 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.

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 Station to the Engineering College of the University of South Florida and the other two State engineering colleges. The legislature supported this extension with an appropriation: 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 1980-81 a sponsored research volume of approximately 1.5 million dollars passed through EIES (USF). All departments, faculty as well as students, contribute to this research at the University of South Florida. 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.

Florida—NASA State Technology Applications Center (STAC)

The State University System, the National Aeronautics & Space Administration and certain cooperating colleges of engineering of Florida, including the University of South Florida, have jointly developed the State Technology Applications Center.

STAC offers rapid access to more than 10 million modern published articles related to almost every field of human endeavor and thus provides information to help solve vexing problems at significant savings in man hours and money. This service is a bright new resource for Florida business and industry. Just a short decade ago this concept would not have been feasible. Through perseverance the computer minded community developed a remarkable system of "key wording" information which is stored in the memories of computers. Using these "key words", the computer locates pertinent and required publications, at times far removed from the subject matter in question—titles that may be passed over in the usual library investigation. STAC charges a minimal fee for its search since its operation is partially supported through NASA and State funds. The STAC Office at the College of Engineering, Room 304, Engineering Building, University of South Florida, Tampa, FL 33620, tel. 813/974-2499, serves the south central area of Florida.



COLLEGE OF FINE ARTS

The College of Fine Arts serves the three-fold purpose of providing programs of study, theatres of practice, and programs of events for the University family, the surrounding community, and the citizens of the State of Florida. 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.

Its prime objectives are: (1) to provide a broad but thorough education dedicated to the development of professional excellence in those who are highly talented in the fine arts, (2) to foster this feeling and commitment to aesthetic excellence in those preparing for teaching, and (3) to provide curricular studies and extracurricular activities designed to enrich the life of the general University student and contribute to the overall human environment of the University and Tampa Bay communities.

The College offers degree programs in the departments of Art, Dance, Music, and Theatre, and conducts a program of cultural events.

Programs in art education and music education are offered jointly by the College of Fine Arts and College of Education. Studio and history courses in art; literature, music theory and studio courses in music for these programs are offered by the College of Fine Arts (see programs under the College of Education).

Fine Arts Events Program

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 interna-

tionally recognized artists and ensembles.

Through the Artist Series, The Chamber Music Series, the Performing Arts Residency program, and the Film Art Series, the college continually strives to enrich its academic program and the cultural environment by bringing to the campus and into the community artists of the highest stature in dance, music, and theatre from around the world. The list of prestigious artists which 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.)

Fine Arts Events is the designation given to the arts management unit of the college. With a faculty whose professional and academic credentials are of the highest quality. Fine Arts events provides the expertise needed to develop and administer these programs. The unit also functions as the technical service wing of the colleges's departmental performing arts programs and serves as a teaching resource for the academic programs in the college. Through the Theatre Department curriculum, the courses in arts management and various courses in the design/technology track are taught by members of the Fine Arts Events faculty.

The impact of the Fine Events program on the cultural life of the University and the community is immeasurable, affording the fine arts student numerous opportunities to become aware of the unlimited options he or she might wish to pursue, and providing for the whole community cultural enrichment opportunities that otherwise would not be available.

BACCALAUREATE LEVEL DEGREE PROGRAMS

Programs Leading to the Baccalaureate Degree

The College of Fine Arts has programs leading to the Bachelor of Arts degree in the fields of Art, Dance, Music, and Theatre, and a Bachelor of Fine Arts degree in Theatre.

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 initial entry into the University. 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 course work 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. For information and appointments call or write to the Coordinator of Advising, College of Fine Arts.

Degree-seeking graduate students accepted into the M.F.A. program in art or into the M.M. program in music will be counseled on program requirements and in their selection of courses by the appropriate Graduate Adviser.

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 two undergraduate degrees, the Bachelor of Arts (B.A.), attainable in the Departments of Art, Dance, Music and Theatre, and the Bachelor of Fine Arts (B.F.A.) in Theatre. The University requirements are presented on page 34 of this Catalog, but are briefly summarized here along with the college and departmental requirements:

1. 120 credits for the B.A. and 150 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 on page 34 of this catalog, (2) completing the A.A. degree from 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. 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.
4. A maximum of 9 credit hours of ROTC credit (MIS prefix) taken at USF may be counted as general elective credit toward the B.A. or B.F.A. degree with a major in the College of Fine Arts.
5. 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. or B.F.A. degree in the College of Fine Arts.
6. Department Requirements:

Art Requirements: Completion of a minimum of 46 hours in the major, 19 credit hours of Free Electives (of which 16 credit hours in art may apply), and 9 credit hours of non-major credits which may be distributed at the discretion of the Art Department.

Dance Requirements: Completion of a minimum of 42 credit hours in the major, 23 credit hours of Free Electives (of which 19 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 64 hours in the major and 10 hours of non-major electives of which 5 hours may be distributed at the discretion of the Music Department.

Theatre Requirements: For the B.A., the completion of a minimum of 51-52 credit hours in the major with 23 credit hours of Free Electives of which a maximum of 10 credit hours may be in theatre. For the B.F.A., the completion of a minimum of 75 credit hours in the major with 30 credit hours of Free Electives of which a maximum of 10 credit hours may be in theatre.
7. 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 to be applied toward graduation from the University must have prior approval from the appropriate department and the College.

Waiver of credit of up to 12 credit hours in the major or Fine Arts College requirements is possible by demonstration of competence. Review is by faculty committee. Specific questions concerning program requirements for the B.A. 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 page 34 of the University Catalog for a complete description of 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 or music 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 distribution of the four copies according to instructions. A student must not register for a course again to remove an "I" grade. Please see page 31 for more details concerning the University's "I" grade policy.

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 major students may take course work 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 see page 31. for more information concerning the University's S/U Grading policy.

Dean's List Honors

See Academic Policies and Procedures, Programs and Services, page 33.

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 page 36 of this 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, 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 page 110 for 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.

ARH 4100	ARH 4300	ARH 4450	ARH 4937
ARH 4170	ARH 4350	ARH 4530	
ARH 4200	ARH 4430	ARH 4796	
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 6 semester hours each) and/or Critical Studies in Art History (4 semester hours each).
5. Art Senior Seminar, 2 credit hours.
6. A proficiency in French or German. In lieu of some considerable direct living experience with another language, it is suggested that a minimum of two years or equivalent of college-level study of a language be undertaken.
7. A maximum of 16 semester hours of art electives.

Master's Level Degree Programs

The College of Fine Arts offers two master's level degree programs, the Master of Fine Arts (M.F.A.) in the art department and the Master of Music (M.M.) in the music department. The requirements for these programs are located under the departmental academic program descriptions. The general University admissions requirements for graduate degree-seeking status and the regulations of the University governing graduate study are described beginning on page 48 of this Catalog. The general University application procedures are explained on page 14. When all of the information required for general acceptability into the University is received in the Graduate Admissions Office, the information gathered by the office will be forwarded to the appropriate department in the College of Fine Arts where final processing occurs. However, it is important that the applicant simultaneously seeks to satisfy the *departmental admission* requirements along with the requirements of the Office of Graduate Admissions in order to meet all deadlines.

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)

- I. Studio Concentration:

ART 2202C (4)	ART 2203C (4)	ARH 3000 (4)
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 Plus: Two 4 semester hour classes from 3000 studio level (8)
- II. Art History concentration:

ART 2202C (4)	ART 2203C (4)	ARH 3000 (4)
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 Plus: Two 4 semester hours classes from any of the following:

ARH 4100 (4)	ARH 4350 (4)
ARH 4170 (4)	ARH 4430 (4)
ARH 4200 (4)	ARH 4450 (Required) (4)
ARH 4301 (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, Freidl Dzubas, Allen Jones, Nicholai Krushenick, Daniel Lang, Paul Sarkisian, Lucas Samaras, Robert Irwin, James Rosenquist, Robert Rauschenberg, Phillip Pearlstein, Edward Fry, Alice Aycock, Alfred Leslie, Linda Benglis, Ron Gorchov, Patterson Sims.

Master of Fine Arts Degree (Art)

The major concentrations, or areas of emphasis available to graduate (M.F.A.) art students are: Drawing, Painting, Sculpture, Ceramics, Graphics (lithography and/or intaglio), Photography, Cinematography.

Procedure for Applying

The application for admission to graduate study should be sent to University Admissions prior to deadlines published in the academic calendar on pages 4-5. However, the application and all support materials (portfolio, etc.) should be submitted early enough so that they will reach the art department by the following dates: for Semester I admissions by March 1; for Semester II admissions by October 1.

At least one week should be allowed for internal processing of the application providing all transcripts have been received and the applicant's grade point average (GPA) for the final 60 semester or 90 quarter credit hours of undergraduate work is 3.0 or above. If the GPA is below 3.0 the GRE score must be available which may take up to six weeks from the date the exam is taken.

The applicant should submit a portfolio of art work directly to the Graduate Art Adviser in the College of Fine Arts for faculty review. The portfolio should consist of 35 mm slides, for convenience in shipping, handling and presentation. Applicants in drawing and printmaking, however, should send original works and applicants in photography should send original prints. Cinematography applicants should send duplicate prints.

The portfolio should provide evidence of maximum strength in the area of the applicant's primary interest, although work submitted may represent more than one discipline. Return postage in stamps in the amount necessary for the return of all materials should accompany the portfolio. (Please do not send cash, checks or money orders.)

Applicants to the Master of Fine Arts Degree program are also required to submit (in addition to the portfolio), three letters of recommendation and a letter of intent.

For information concerning University graduate studies, admissions and graduation policies see page 48. It is the applicant's responsibility to see that all required materials such as transcripts, GRE scores, portfolio and letters of recommendation are received in time to be processed by art department deadlines.

Requirements for the M.F.A. Degree:

A student may be accepted into the M.F.A. program either provisionally or fully. Provisional enrollment is normally provided for one or two consecutive terms. When accepted fully as degree-seeking, the student will be given a calendar year in which to achieve "degree-candidacy." These steps are achieved by submission of work for faculty reviews held twice a year. All degree-seeking students are provided with two opportunities within the calendar year to achieve candidacy. If a degree-seeking student does not achieve candidacy on the second attempt, the student will then be terminated from the program.

Upon acceptance to candidacy, the student will select a committee of three faculty members, two of which must be studio faculty of the student's primary discipline.

The M.F.A. degree requires a *minimum* of 60 semester hours. The bulk of a student's program is discretionary, and is planned with the advice of the graduate art adviser in its initial stages, and later with the advice of the student's graduate committee.

Specific program requirements include work in theory (ART 6936 *Graduate Seminar*: 2 hours credit, must be taken twice); participation in instruction (ART 6937 *Graduate Instruction Methods*: Variable credit to 4 hours); presentation of work (thesis exhibition for which credit is normally given); and thesis documentation (usually earned under ART 6971, *Masters Thesis* but in certain circumstances under ART 6911, *Directed Research*; credit for documentation is variable); and 12 hours in *art history*.

Students are also required to participate in a thesis orals session in conjunction with the thesis exhibition. This is a forum for questions from faculty representatives and is open to other graduate students.

Graduate students are normally assigned studio space, when available, in the department and are expected to remain in residency during their enrollment. Exceptions must be expected to remain in residency during their enrollment. Exceptions must have the approval of the student's graduate committee and the graduate art adviser. Approval from both of these sources is also necessary for the acceptance of any Special Student status courses (up to 8 hours) taken prior to admission and for any transfer credit from another institution (limited to 9 hours). The graduate committee must additionally approve the written thesis, the thesis exhibition and the conduct of the orals in satisfaction of degree requirements.

The requirements for the M.A. degree in Art Education are listed under the College of Education.

■ DANCE (DAN)

The dance curriculum is designed for students interested in dance as an art form. Their objectives may be to continue their education in graduate school, to teach in a college or a private school, or pursue a career as a performer and/or choreographer.

Major concerts are given each semester as well as workshop performances. Major dance companies are brought to the campus giving students the opportunity of taking classes with the visiting artist.

Requirements for the B.A. Degree (42 semester hours minimum)

Suggested curriculum pattern:

First Year - all students (2 credit hours plus electives)

DAA 2100 2 credit hours Elective

DAA 2200 2 credit hours Elective

DAN 3611 2 credit hours

TPA 2223 2 credit hours (Fine Arts requirement)

Second year - all students (13 credit hours plus electives)

DAA 2160 3 credit hours (Ballet requirement, Modern elective)

DAA 2201 3 credit hours (Modern requirement, Ballet elective)

DAA 3700 2 credit hours

DAA 3701 2 credit hours

DAN 4120 3 credit hours

DAN 4151 3 credit hours

Third Year Modern Concentration (14 credit hours)

DAA 3161 6 credit hours

DAA 3202 3 credit hours

DAA 4702 2 credit hours

DAN 3590 2 credit hours

DAN 3710 1 credit hour

Third Year Ballet Concentration (14 credit hours)

DAA 3202 6 credit hours

DAA 3161 3 credit hours

DAA 3220 2 credit hours

DAN 3590 2 credit hours

DAN 3710 1 credit hour

Fourth Year Modern Concentration (14 credit hours)

DAA 4162 8 credit hours

DAA 4703 2 credit hours

DAN 3710 1 credit hour

DAN 4170 2 credit hours

Fourth Year Ballet Concentration (13 credit hours)

DAA 4203 8 credit hours

DAA 3220 2 credit hours

DAN 3710 1 credit hour

DAN 4170 2 credit hours

A maximum of 19 credit hours of Dance electives may apply toward the dance degree. For course descriptions, see page 223.

TPA 2223 Basic Theatre Crafts II (2) 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 at least a minimum of 2 credits (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 DAN 3710 Repertory by performing in at least two concerts or workshops.

Junior dance majors are required to do a dance project and senior dance majors are required to choreograph and perform a solo in a dance program.

Entrance to all technique courses is by jury examination. A student must audition each semester to stay at his/her present level or to advance to a higher level. Until the student is accepted into Modern Dance III or Ballet III he/she will be considered as a probationary dance major. DAA 2160 or DAA 2201 may be repeated only once for credit towards degree requirements.

Prospective students must contact the dance department to arrange for an audition prior to registration.

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 page 110 of Fine Arts College requirements and page 38 for the University's General Distribution and graduation requirements.

Requirements for a minor in Dance (20 semester hour minimum)

- I. Minimum of 10 semester hours upper level courses (3000 and 4000 level courses).
- II. Admission to all studio classes is by audition only (as with major students) and the student must be ranked by level before being admitted. Studio courses may be repeated for credit as stipulated in the Catalog.
- III. Prospective students must contact the Dance department to arrange for an audition prior to registration. DAA 2160 and DAA

2200 may be repeated only once for credit toward the minor.

- IV. The student must audition each semester to stay at his/her present level or to advance to a higher level for all technique courses.

Visiting Artists and Artists-in-Residence

By supplementing its excellent on-going 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.

An impressive list of visiting artists includes:

Murray Louis Dance Co.	Ballet Marjo
First Chamber Dance Co.	Luis Rivera Co.
Claude Kipnis Mime Theatre	Utah Repertory Dance Theatre
Louis Falco Dance Co.	Cliff Keuter Dance Co.
Nikolais Dance Theater	Kelly Hogan
Dance Theatre of Harlem	Jose Limon Co.
Merce Cunningham Dance Co.	James Cunningham Co.
Alvin Ailey American Dance Theatre	Lar Lubovitch Dance Co.
Don Redlich Dance Co.	Dena Madole
Polish Mime Ballet Theatre	Meredith Monk
Viola Farber Dance Co.	Luigi
Paul Taylor Dance Co.	Carolyn Brown
The Phakavali Dancers of Thailand	Susanna Hayman Chaffey
Jacques D'Amboise	Sandra Neels
Lucas Hoving Dance Co.	Betty Jones
New Caledonia Singers and Dancers	Barton Mumaw
The Trocadero	Twayla Tharp Dance Company
Kazuko Hirabayashi	George Faison Dance Company
Laura Glen/Gary Lund	Pilobolus Dance Theatre
Norman Walker Dance Co.	Jennifer Muller and The Works
	Daniel Nagrin
	Milwaukee Ballet Co.

MUT 4431 and one of either MUT 4411 (2) or

MUT 4421 (2)

Music Literature (4)

MUL 2111 (2)

MUL 2112 (2)

Music History (6)

MUH 3211 (3)

MUH 3212 (3)

Senior Seminar (2)

MUS 4935 (2)

Ensemble (8)

Required of all music majors and/or with enrollment in applied music.

Applied Concentration:

A total of 24 credit hours of applied music is required with a minimum of 6 hours to be completed at the senior level.

Promotion to the next higher level in applied music is made upon the recommendation of the faculty in the student's respective performance concentration based upon a jury examination conducted by that concentration's faculty.

For other non-major requirements see page 15 of the Fine Arts College requirements and page 38 for the University's General Distribution and graduation requirements.

The requirements for the B.A. in Music Education are listed under the College of Education.

Composition Concentration:

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 2202	(6)	MUC 3601, 3602	(3.3)
MUC 2301	(2)	MUC 4204	(3)
MUC 3203	(3)	MUC 4405, 4406	(3.3)
MUC 3401, 3402	3.3)	MUC 4501	(2)
MUC 3441, 3442	(3)	MUT 4311, 4312	(2.2)

In consultation with, and with the approval of the entire composition faculty, the senior requirement for composition concentration is to be satisfied in any of the following three ways, or in other ways so designated by the composition faculty: (1) a complete public concert of works by the student composer, (2) the public performance of several compositions in various concerts throughout the composer's senior year, (3) 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.

MUSIC (MUS)

The Departmental B.A. Degree:

The music curriculum is designed for those students gifted in the performance and/or composition of music. Candidates for a major in music are required to pass an entrance examination (audition) in their respective performance area. Composition candidates are required to submit appropriate scores and/or tapes of their compositions for faculty appraisal. All new registrants are also required to take a placement or proficiency examination in music theory. Students may obtain dates and times for these examinations from the music department office. Completion of those examinations is required before registration in music courses can be permitted.

Academic programs offered include:

Bachelor of Arts degree with concentration in Performance (voice, piano and orchestral instruments), Composition, and Piano Pedagogy.

Requirements for the B.A. Degree (64 semester hours minimum)

All students seeking a degree in music are required to (1) complete successfully the secondary piano and music theory-literature requirements as defined by the music faculty, (2) present a partial public recital during the junior year, (3) present a complete public recital during the senior year, (4) 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). Those requirements are in addition to the actual course requirements listed below: A total of 64 hours is required as follows:

<i>Music Theory (20)</i>		
MUT 1111 (3)	MUT 1242 (1)	MUT 2246 (1)
MUT 1112 (3)	MUT 2116 (3)	MUT 2247 (1)
MUT 1241 (1)	MUT 2117 (3)	

MUSIC EDUCATION

Requirements for the B.A. Degree (MUE):

All students seeking a degree in music education are required to take a placement examination in music theory-history and to pass an audition in their respective performance area. Students must obtain the dates for these examinations from the Music Office, completion of the examinations is required before registration in music courses can be permitted.

Special requirements for all music education majors; successful completion of the piano proficiency requirement 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 senior year.

Students are encouraged to attend on-campus musical events (major ensemble concerts, student and faculty recitals, and Artist Series concerts).

A. Instrumental Specialization (83 cr. hrs.)

Music Education courses (22 cr. hrs.)

MUE 2420 (1)	† MUE 3414 (1)	* MUE 4314 (3)
MUE 3411 (1)	* MUE 4050 (3)	* MUE 4332 (3)
† MUE 3413 (1)	* MUE 4130 (3)	†† MUE 4480 (1)
† must be taken up to two hours		
* one credit hour of pre-interning enrollment required with each course.		
†† elective for band emphasis		

Music courses (min. 61 cr. hrs.)

MUT 1111 (3)	MUT 2116 (3)	MUL 2112 (2)
MUT 1112 (3)	MUT 2117 (3)	MUH 3211 (3)
MUT 1241 (1)	MUT 2247 (1)	MUH 3101 (2)
MUT 1242 (1)	MUL 2111 (2)	MUG 3101 (2)

Applied Music (21 cr. hrs., min. 3 hrs. senior level)

Applied Music Secondary (Techniques - 5 cr. hrs.)
(one each: woodwind, brass, string, percussion, voice)

Performing Ensembles

(Minimum of one per semester of applied music - 7 cr. hrs.)

Piano proficiency requirement

Graduating recital

Art, Dance, Theatre (min. 4 cr. hrs.)

(one course to be selected from one or more of the other departments of the College of Fine Arts)

B. Vocal Specialization (82 cr. hrs.)

Music Education courses (21 cr. hrs.)

MUE 2420 (1)	MUE 3414 (1)	*MUE 4314 (3)
†MUE 3411 (1)	*MUE 4050 (3)	*MUE 4331 (3)
MUE 3413 (1)	*MUE 4130 (3)	

†Must be taken up to two hours.

*One credit hour of pre-interning enrollment required with each course.

Music courses (min. 61 crs. hrs.)

MUT 1111 (3)	MUT 2116 (3)	MUL 2111 (2)
MUT 1112 (3)	MUT 2117 (3)	MUL 2112 (2)
MUT 1241 (1)	MUT 2246 (1)	MUH 3211 (3)
MUT 1242 (1)	MUT 2247 (1)	MUG 3212 (3)
		MUG 3101 (2)

Applied Music (21 cr. hrs., minimum 3 cr. hrs. senior level)

Applied Music Secondary (Techniques - 5 cr. hrs.)

(one each: woodwind, brass, string, percussion, voice)

Performing Ensembles

(Minimum of one per semester of applied music - 7 cr. hrs.)

Piano proficiency requirement

Graduating recital

Art, Dance, Theatre (minimum 4 cr. hrs.)

(one course to be selected from one or more of the other departments of the College of Fine Arts)

Requirements for a minor in Music (19-22 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 11-12 hours.

I. Core Curriculum:

Music Theory	(8)
Introduction to Music Literature	(4)

or

Music History	(3)
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II. Optional Concentrations:

A. History-Theory-Literature	9-10 hours
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Music History and/or Theory and/or Literature	(7-8)
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Music Ensemble	(2)
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B. Applied Medium	8-10 hours
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Performance Studio courses which may include up to 2 semester hours of class-studio	(6-8)
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Music Ensembles	(2)
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Faculty jury recommendations for sophomore level studio study (minimum)	
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C. Composition	9 hours
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Introduction to Electronic Music	(2)
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Composition Studio courses which may include one course of orchestration	(6)
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Music Ensemble	(4)
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III. Admission to all studio courses is by audition only (as with major students), and the student must be ranked by level. class-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.

Master of Music Degree

The major concentrations available to graduate (M.M.) music students are:

performance	theory
composition	choral conducting

Procedure for Applying

The applicant seeking acceptance into the Master of Music degree program must meet the University's general admissions requirements and make formal application for general University acceptability with the Graduate Admissions Office. Concurrently, the applicant must arrange to fulfill the specific acceptance requirements in the Music department (of the College of Fine Arts). Full acceptance cannot be given until the applicant satisfies: (1) performance audition, (2) placement examination in music theory. Dates and times for auditions and examinations may be obtained by telephoning or writing the Music Department, College of Fine Arts. Persons to contact directly are the Chairperson of the Music department and the Coordinator of Graduate Music, or the Coordinator of Graduate Studies (College of Fine Arts) for referral.

Requirements for the M.M. Degree (30 semester hour minimum)

General requirements for graduate work are given on page 48. In addition, the applicant for the Master of Music degree program will need to satisfy the following requirements in music before initial registration: (1) performance audition, and (2) placement examinations in music theory.

All candidates for the degree must take the following course work:

Techniques of Research in Music	(3)
Critical Analysis of Music Repertory	(2)
20th Century Music Literature	(3)

Degree Requirements will vary according to the program chosen as well as the student's needs and interests. Recommended programs may be obtained from the department chairperson. Each program must be approved by the coordinator of graduate conformance with the guidelines established by Graduate Music Committee. A minimum of 30 semester hours is required.

No secondary applied music course may be used to satisfy the general applied requirement. Students must enroll for the major applied offering (4 semester hours).

The responsibility for seeing that all graduation requirements are met rests with the student.

Requirements for the M.A. Degree (MUE):

Plans in both instructional and vocal music are offered. A placement examination is required of all new registrants in music theory. Each candidate must meet the undergraduate level of piano proficiency before the semester in which he/she expects to graduate. Participation in ensembles is required for at least two semesters. Two plans are available to the candidate: 32 hours plus thesis or recital or 35 hours without thesis or recital.

Seven credits in education to include EDF 6215 and EDF 6431; nine credits in music education including MUE 6080 and MUE 6189; including six credits in music theory-history-literature and four credits in applied and MUS 6793.

SYCOM

The SYstems COMplex for the Studio and Performing Arts exists to provide essential instructional services and state-of-art reproducing, mixing, editing, and electronic sound generating and processing equipment (digital and analog) for development and implementation of explorative research and creative activity by artists, scientists, and students (generally enrolled in related classes) at USF.

Basic recording facilities in Studio A include a custom designed 12 channel quad. mixing console, constructed around an OPAMPS frame (with patchbay, remotes and monitor controls), an MCI eight-track recorder (1 $\frac{1}{2}$ format; 7 $\frac{1}{2}$, 15, 30 ips) with DBX 208, an Ampex ATR 102 two-track recorder with Dolby A, a TEAC 40-4 four-track recorder with DBX, a MIC MIX stereo reverb and four White 1/3 octave equalizers. Four JBL 4315 B studio monitors are powered by two Crest amplifiers. Eu Systems provides a modular synthesizer with a real time 16-voice microprocessor controlled, keyboard/sequencer (6000 notes of storage, cassette "load and store" of software). Computer facilities include a standard Z80 cpu (system upgradable to a Z8000) with 64 K of RAM, and IBM compatible, digital tape drive (7 or 9 track; 800 or 1600 BPI), a 29 megabyte Shugart disk, two 500 K double density floppy diskettes, four

channels of 12 bit d to a for synthesizer control (8 for pitch; 8 for amplitude; 16 separate triggers), one channel of analog-to-digital conversion and two Hazeltine 1500 terminals. A Megasytems PS5-2 8080 microprocessor/sequencer with 2000 notes of storage and an array of specialized software entered on a standard ASCII terminal is also available. Peripherals include a Technics SL 1600 MK2 turntable system, an Akai GX-M50 cassette deck, a frequency counter and a digital clock.

Written proposals for individuals or group projects to be sponsored or subsidized by SYCOM and/or extramural granting agencies should be submitted for consideration to the director of SYCOM. The subsequent results of project activities will be exhibited in the form of public lectures, performances, reports, publications, or large theatrical events and special workshops, such as Sound Gallery, the Event/Complex Series, Art-Tech Workshop, and the new music/media festival, INTERMUSE.

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 String Quartet, the Faculty Brass Quintet, the Ars Nova (faculty) Woodwind Quintet and the Faculty Chamber Players.

Unique Learning Opportunities:

The music department 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.

SYCOM—The Systems Complex for the Studio and Performing Arts offers the student the opportunity to work with an unusually well developed electronic facility for creative research and compositional opportunity.

Visiting Artists and Artists-In-Residence:

The Department of Music utilizes guest composers, conductors, and performing musicians to enhance its offerings in terms of teaching faculty, forum appearances, and the conducting or musical programs, symposia, and clinics. Some prominent musicians who have appeared in the past are Howard Hanson, Norman Dello Joio, Randall Thompson, Virgil Thomson, David Ward-Steinman, Walter Trampler, Fred Hemke, Eleazar de Carvalho, Thomas Nee, Lukas Foss, Maurice Andre, John Haynie, Jean Pierre Rampal, Julius Baker, David Baker, Thomas J. Anderson, Hale Smith, George Russell and Olly Wilson.

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. Student 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. Usually these awards cover in-state tuition fees, and are distributed following open auditions held in February and March. The award is made for the following year for two semesters. Available to graduate students who show special potential for creative contribution to the profession are the University Scholar Awards and graduate assistantships and fellowships. Additionally, loans, and grants and work programs are available to qualified University of South Florida students. Financial aid is granted on need, academic promise and character.

■ THEATRE (TAR)

The Department Major:

Through its curriculum and production program, the theatre department offers to seriously interested students the opportunity to prepare themselves for the beginning of 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 concentrates in the areas either of performance or of Design and Technology.

To earn a B.A. in Theatre, the student following the design and Technology Concentration must take a minimum of 51 credit hours. The Design/Technology students are required to take an additional 4 credits (ART 3301C) in the Art Department. (These may be applied to the college requirement of 6 credit hours outside the Department but within the college. May also be applied to general distribution requirement Area II.) The student following a Performance Concentration must take a minimum of 50 credit hours. In addition to these, a number of electives in the department may be taken to broaden the general program or to pursue a particular interest in more depth.

To allow for an even greater preparation in professional theatre, a Bachelor of Fine Arts degree is offered. This program allows one of two concentrations: either Performance or Design/Technology. Students will be expected to earn 30 credit hours beyond the B.A. (overall 150 credits from the University). Normally the B.F.A. should be accomplished in 10 semesters.

For other non-major requirements see page 110 for the College of Fine Arts requirements and pages 34-37 for the University's General Distribution and graduation requirements.

Through the production program, which includes various performances for general audiences, children, and department faculty and students, the student has the opportunity to participate in many different ways, thereby gaining practical experience that is essential to his/her development as an artist. The Design/Technology area of Fine Arts Events (see description elsewhere in this section) offers opportunities to the advanced student to work with the professional companies (Dance, Theatre and Music) that come to the campus as a part of the University Artist Series and Dance Residency Program. For all students a broad involvement in all facets of their fields of concentration is encouraged.

Visiting Artists and Artists-In-Residence:

Despite the fact that the University is relatively young the department has had in residence artists from many kinds of theatre and many countries including: London's West End, The Actors' Studio, Dublin's Abbey Theatre, Broadway, Washington's Arena Stage. The American Shakespeare Festival, The Stratford Ontario Shakespeare Festival, The Welsh National Theatre, The BBC, the London Academy of Music and Dramatic Art, The Working Theatre, Coventry's Belgrade Theatre, Paris, Hollywood, Moscow, East Berlin's Deutsches Teater, Taiwan, The Socialist Republic of Armenia and Poland. A partial, alphabetized list would include Edward Albee, Joseph Chaikin, Martin Esslin, Miriam Goldina, Boris Goldovsky, Henry Hewes, Mesrop Keskdekian, Arthur Lithgow, Marcel Marceau, Paul Massie, Siobhan McKenna, Estelle Parsons, Olga Petrovna, Ben Piazza, Sergei Ponomarev, Alan Schneider and Doug Watson.

Requirements for the B.A. Degree with a Major in Theatre

In the total of 120 credit hours for graduation, a minimum of 50 credit hours must be taken within the Department of Theatre. In addition, a maximum of 12 credit hours of theatre may apply to the Theatre Electives Area.

Performance Concentration (50 credit hours minimum)

Suggested Sequence Of Requirements

First Year (11 credit hours)

THE 2020 2 credit hours
TPA 2200 3 credit hours
TPA 2223 3 credit hours OR TPA 2230 3 credit hours
TPP 2110 3 credit hours

Second Year (14 credit hours)

TPP 3111 3 credit hours
TPA 3086 3 credit hours
THE 3110 4 credit hours
TPP 3500 2 credit hours
TPP 3790 L 2 credit hours

Third and Fourth Years (21 credit hours)

Theatre Literature - 3 credit hours

TPP 4140 4 credit hours
TPP 4150 4 credit hours
TPP 4920 3 credit hours

THE 4180 4 credit hours
 THE 4562 3 credit hours
 Plus 4 credits TAR electives.

Design/Technology Concentration (51 credit hours minimum)

Suggested Sequence Of Requirements

First Year (14 credit hours)

THE 2020 2 credit hours
 TPA 2200 3 credit hours
 TPA 2223 3 credit hours
 TPA 2232 3 credit hours
 TPP 2110 3 credit hours

Second Year (17 credit hours)

THE 3110 3 credit hours
 TPA 3086 3 credit hours
 TPA 4211 3 credit hours
 TPP 3111 3 credit hours
 ART 3301C 4 credit hours

Third/Fourth Years (24 credits)

Theatre Literature 3 credit hours

THE 4180 4 credit hours

THE 4562 3 credit hours

Choose two (2) of the following combinations (14 credit hours):

TPA 4020 (4 credit hours) and TPA 3221 (3 credit hours)

TPA 4040 (4 credit hours) and THE 4264 (3 credit hours)

TPA 4060 (4 credit hours) and THE 4266 (3 credit hours)

The Theatre Literature requirement for Performance and Tech/Design majors is to be selected from the following:

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

Freshman Lab and Advanced Course Production Involvement:

TPA 2200, TPA 2223, and TPA 2230 have, in addition to the weekly lectures (3 hours), a weekly 4 hour laboratory. (LAB)

In certain upper division courses in the Theatre Department, students are expected to involve themselves in scheduled USF productions as a part of regularly assigned class work. The involvements are assigned and may be either construction or running crews or performance work. This ACPI assignment is an integral part of the following courses.

THE 4264 — History of Costume

TPA 4020 — Architecture and Decor

TPA 3221 — Lighting: Theory and Practice

TPA 4020 — Light Design

TPA 4040 — Costume Design

TPA 4060 — Scenic Design

TPA 4211 — Stagecraft and Drafting

TPA 4230 — Costume Construction

TPP 3500 — Body Disciplines

TPP 3790L — Voice Preparation for the Actor

TPP 4140 — Scene Study II

TPP 4150 — Scene Study I

TPP 4152 — Scene Study III

All Theatre majors (B.A. and B.F.A.) must satisfy four ACPI's before they are approved for graduation.

Once the minimum requirement of four ACPI's has been met, no students who registers for courses with ACPI requirements will be required to participate.

Academic credit may be given for an ACPI assignment by enrolling in THE 3925 (1 credit). Students taking an ACPI course for the first time are exempt from the ACPI requirement at their option.

Requirement for Minor in Theatre (21 hours minimum):

THE 2020 2 credit hours

TPA 2200 3 credit hours

TPA 2223 3 credit hours or TPA 2230 3 credit hours

TPP 2110 3 credit hours

The remaining 10 hours are to be selected by the student based on personal interest. 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 Design Sequence must have a portfolio review.

All Theatre courses (with the exception of the above mentioned lab courses) are subject to consent of the instructor.

Requirements for the B.F.A. Degree in Theatre:

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.

The student will concentrate in either Performance or Design Technology.

Admission to the B.F.A. program is by audition or portfolio presentation and acceptance by the appropriate 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: (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.)

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.

Design/Technology 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)

TPP 4310 Directing I (3 credit hours)

Additional Theatre Lit or Senior Seminar repeated (3 credit hours)

Complete third area of design and prerequisite (7 credit hours)

—The remaining (10) hours of electives with advice and consent of faculty B.F.A. Committee.

Performance Concentration

12 credit hours of production preparation through performance classes from the following:

THE 4905 1-4 credit hours

THE 4930 1-8 credit hours

TPA 2250 1 credit hour

TPA 3810 3 credit hours

TPA 3840 4 credit hours

TPP 3121 3 credit hours

TPP 3122 3 credit hours

TPP 3235 3 credit hours

TPP 3510 2 credit hours

TPP 4220 2 credit hours

TPP 4310 3 credit hours

TPP 4311 3 credit hours

TPP 4610 3 credit hours

12 credit hours of additional electives of which 6 must be outside the Department of Theatre

PLUS 6 credit hours:

TPP 4180 3 credit hours

THE 4562 (repeat) 3 credit hours, or additional Theatre Literature.





COLLEGE OF MEDICINE

The major objectives of the College of Medicine are, first, to create and maintain an academic environment in which medical education, the production of new knowledge, and community service may be continued in a quality manner. The second objective is to integrate the College of Medicine into the mainstream of the community and to participate in and lead in the up-grading and improvement of the health care standards of the community in which the College is located. The third objective is to function within the framework of the total University as an integral and valued part of the University community.

The philosophy of the educational program at this institution is to provide a strong academic basis for lifetime scholarship in medicine and growth in professional stature for our students, to lay the foundation for the development of ever increasing technical and professional competency and proficiency in the arts and sciences of medicine for each of the students; to instill in our students compassion and a sense of devotion to duty to their profession and to their patients; to provide relevance and continuity in instruction among the various disciplines related to medicine; to maintain and increase our students' motivation for community and human service in the practice of their profession; to stimulate the students to accept major responsibilities in learning; to orient teaching activities around the student and his desire and ability to learn.

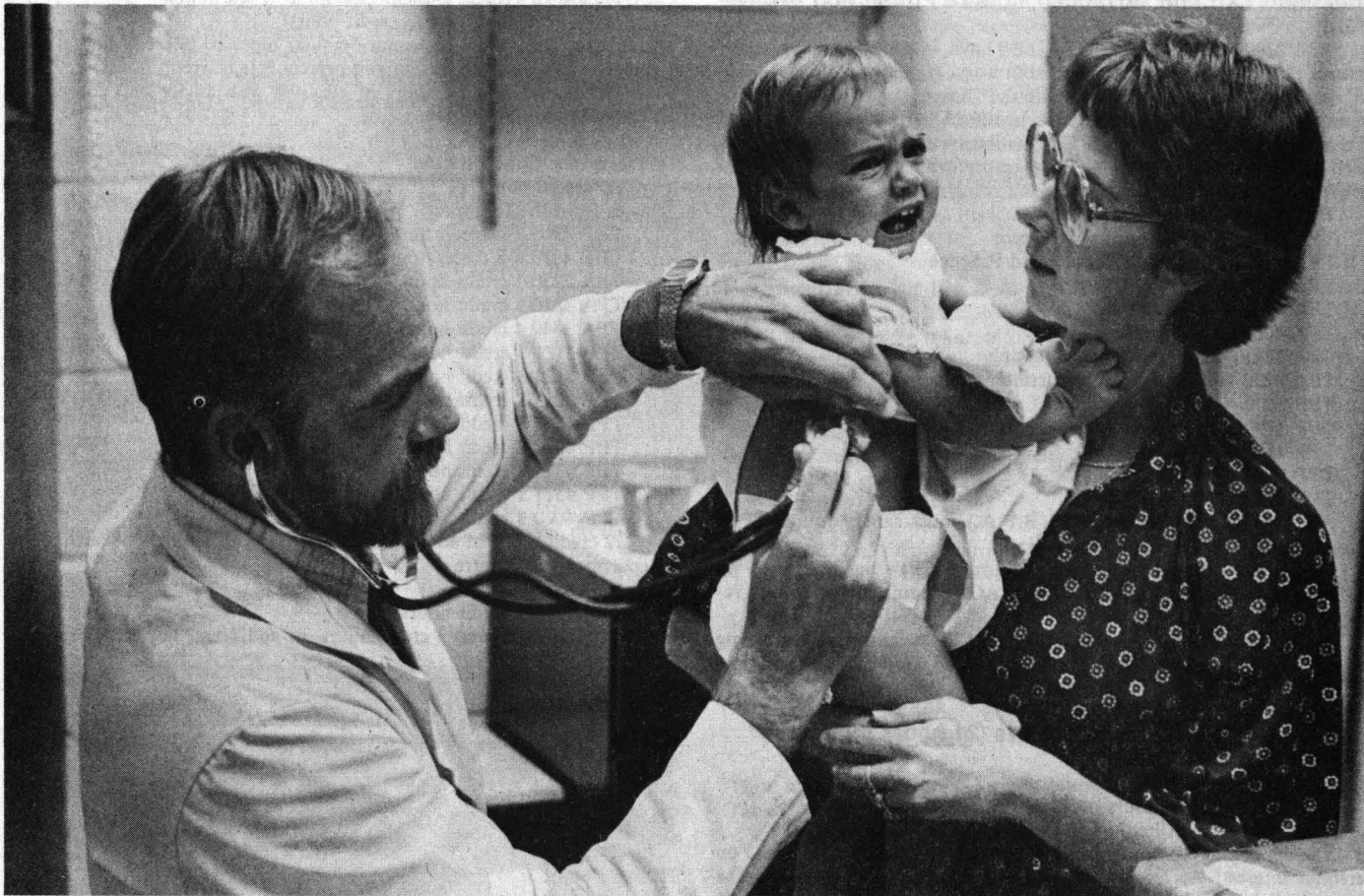
With these concepts in mind, a curriculum has been developed which we believe will achieve an effective correlation between the pre-clinical and clinical instructional areas. The curriculum is designed to emphasize conceptually oriented teaching, thus affording the students a challenging and intellectual experience as opposed to a routine and the superficial presentation of a large volume of facts. Relevance to medicine will be emphasized in all areas of instruction in a way recognizable and understand-

able by the student of medicine. Increased correlation on an interdisciplinary basis will be instituted providing reinforcement between the various fields of study. The curriculum will also provide a close and ongoing experience for the student in the day-to-day and continuing College of Medicine's health care delivery system within the community hospitals and the College of Medicine's ambulatory care facilities. It is anticipated the program will produce graduating physicians who understand and desire the practice of medicine as a fruitful and meaningful choice for a lifetime career of service to their patients and the community.

It is recognized that the program does place heavy demands upon the students. They will be expected to utilize all resources provided by the College, to maintain a consistent level of academic achievement, and to demonstrate evidence of initiative and dedication to their chosen profession.

MEDICINE

Students admitted to the College of Medicine, seeking an M.D. degree, are selected on the basis of what appears by present standards to be the best suited for the successful study and practice of medicine. The selection is made by the Admissions Committee composed of members of PreClinical, Clinical faculty, and one senior medical student. Each applicant is considered individually and is judged strictly on his or her own merits. Characteristics evaluated include motivation, integrity, character, and general fitness. These are judged by recommendations of the applicant's PreMedical Advisory Committee as well as other letters of recom-



mentation. The academic record and New Medical College Admission Test furnish an estimate of academic achievement and intellectual competence.

Interviews are arranged for applicants whose qualifications appear to warrant complete exploration.

All inquiries concerning admissions should be directed to the Associate Dean for Admissions, University of South Florida, College of Medicine (Box 3), 12901 North 30th Street Tampa, Florida 33612.

Requirements for Admission

A minimum of three years of college or university work is required with some preference given to those applicants who present a bachelor's degree from a liberal arts college approved by one of the national accrediting agencies. The minimum requirement is three years of college work (90 semester hours or 135 quarter hours, exclusive of Physical Education and ROTC).

Regardless of the number of years involved in Pre-Medical training, the college credits submitted by the applicant must include the following:

	Semester(s)	Quarter(s)
English	2	3
Biological Science (including laboratory)	2	3
Mendelian Genetics (laboratory optional)	1	1
General Chemistry (including laboratory)	2	3
Organic Chemistry (including laboratory)	2	3
Mathematics	2	3
Statistics (mathematics or Social science)	1	1
Physics (including laboratory)	2	3

All applicants must arrange to take the New Medical College Admission Test.

Requirements for Graduation

The awarding of the degree Doctor of Medicine will follow successful completion of the entire required course of study. Appropriate arrangements for post graduate training must be made. Grading of performance in academic subjects will be on an honors, pass with commendation, pass, fail grading system, and the student must have achieved a grade of at least pass in all subjects in the curriculum.

Doctor of Philosophy Degree in Medical Sciences

A graduate program leading to the Doctor of Philosophy degree in Medical Sciences is offered by the Basic Science Departments of the College of Medicine. Information concerning this program may be obtained by contacting the Assistant Dean for Research and Graduate Affairs, College of Medicine, Box 40, 12901 North 30th Street, University of South Florida, Tampa, Florida 33612.

Requirements for Admission

- Students who seek admission as first-time graduate students to the Ph.D. Program in Medical Sciences of the College of Medicine shall be required to meet the minimal System-wide (State University System of Florida) and University-wide (University of South Florida) entrance requirements.
- In addition, and/or over and beyond the minimal System-wide and/or University-wide entrance requirements, the applicant while working for the baccalaureate degree, shall have earned a minimum overall grade point average of 3.0 out of a possible 4.0 with a minimum grade point average of 3.0 in the sciences.
- The applicant shall have a total quantitative-verbal Graduate Record Examination score of 1100 or higher. However, if the applicant takes an advanced test on the GRE in his or her major and achieves a score of 600 or higher, and achieves a score of 1000 or higher on the quantitative-verbal test, the minimum score of 1100 may be waived under special circumstances.
- The applicant must must have completed the following courses: one year of general biology, one year of general chemistry, one

year of general physics, one year of mathematics including integral and differential calculus, one year of organic chemistry and a course in quantitative analysis.

- In addition to course requirements summarized above (Section 4), the department of the chosen discipline of major may require additional course work to be completed before admission into the Graduate Program. Conversely, at the discretion of the faculty of the department of major, specific deficiencies may be corrected through courses taken within a specified period of time. Each such course, as well as the grade obtained in the course, is to be agreed upon by the student's department of major at the time the student is accepted into the Graduate Program. This information will be communicated to the student and to the Assistant Dean for Research and Graduate Affairs (College of Medicine) prior to the time of regular registration for the quarter.
- Except for the System-wide and/or University-wide minimum admission criteria, all other requirements herein summarized (Sections 2-5), *under exceptional circumstances*, in consideration of the applicant's expected success in the program and in the best collective judgment of the faculty of the department of major, the Graduate Faculty Committee (College of Medicine), and with the concurrence of the Assistant Dean for Research and Graduate Affairs and the Dean of the College of Medicine, may be waived.

COLLEGE OF MEDICINE

Academic Calendar, 1982-83

Class of 1986

August 30, 1982	<i>Monday</i>	Registration-Classes Begin
September 6	<i>Monday</i>	Labor Day Holiday*
November 11	<i>Thursday</i>	Veteran's Day Holiday*
November 25-26	<i>Thursday-Friday</i>	Thanksgiving Holidays*
December 17	<i>Friday</i>	Last Day of Classes
January 3, 1983	<i>Monday</i>	Classes Resume
April 6	<i>Wednesday</i>	Last Day of Classes
April 11	<i>Monday</i>	Classes Resume
May 30	<i>Monday</i>	Memorial Day Holiday*
June 3	<i>Friday</i>	Last Day of Classes
June 8, 9, 10	<i>Wednesday-Friday</i>	Exams
August 29	<i>Monday</i>	2nd Year Curriculum Begins
September 5	<i>Monday</i>	Labor Day Holiday*

Class of 1985

August 30, 1982	<i>Monday</i>	2nd Year Curriculum Begins
September 6	<i>Monday</i>	Labor Day Holiday
November 11	<i>Thursday</i>	Veteran's Day Holiday
November 25-26	<i>Thursday-Friday</i>	Thanksgiving Holiday
December 17	<i>Friday</i>	Last Day of Classes
January 3, 1983	<i>Monday</i>	Classes Resume
April 1	<i>Friday</i>	Last Day of Classes
April 11	<i>Monday</i>	Classes Resume
May 27	<i>Friday</i>	Last Day of Classes
July 5	<i>Tuesday</i>	Clerkship Year Begins

Class of 1984

July 6, 1982	<i>Tuesday</i>	Clerkship Year Begins
September 6	<i>Monday</i>	Labor Day Holiday
November 11	<i>Thursday</i>	Veteran's Day Holiday
November 25-26	<i>Thursday-Friday</i>	Thanksgiving Holiday
December 17	<i>Friday</i>	Last Day of Classes
January 3, 1983	<i>Monday</i>	Clerkships Resume
March 25	<i>Friday</i>	Last Day of Classes
April 4	<i>Monday</i>	Clerkships Resume
May 30	<i>Monday</i>	Memorial Day Holiday
June 24	<i>Friday</i>	Clerkships End
July 5	<i>Tuesday</i>	Electives Begin

*These are holidays for all classes, but holidays may be waived for students serving in Clinical Clerkships at the discretion of the individual Chiefs of Service.



COLLEGE OF NATURAL SCIENCES

Students in the College of 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 the College is dedicated to fostering a spirit of inquiry and intellectual growth.

The College of Natural Sciences offers programs in biology, including botany, microbiology, and zoology; chemistry, and biochemistry; 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 careers hav-

ing 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, transfer to professional schools or admission to graduate school.

In addition, the college administers advising for the premedical sciences non-degree program and the medical technology degree program. These programs combine specialized counseling and curriculum planning to assist the student in gaining admission to a professional school or internship program.

BACCALAUREATE LEVEL DEGREE PROGRAMS

Admission to the College

To be admitted to the College of Natural Sciences a student must make written application and satisfy the admission criteria of the college. Upon admission, the student will be assigned a faculty adviser 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 into the college is strongly recommended.

Information on admission criteria, departments, majors, programs, counseling, and other services of the college may be obtained from the office of the Dean or by contacting the Director of Advising, College of Natural Sciences, University of South Florida, Tampa, Florida, 33620.

General Requirements for Degrees

In addition to the University graduation requirements found on page 34, the requirements for graduation in any undergraduate degree in the college 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,D,F,I) 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 in the college 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 in the college, the course will count as credit towards 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 in the college.
2. Satisfaction of the University Distribution Requirement, 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 15 hours of courses from the Colleges of Fine Arts,

Social and Behavioral Sciences, or Arts and Letters. The student may elect any course from any of these colleges provided:

- (a) No more than 9 hours are taken in courses in any one department.
- (b) The courses are taken with letter grade (A,B,C,D,F,I).

Courses taken to satisfy the University Distribution Requirement may not be used to satisfy this requirement.

4. Subsequent to admission to the college, a student must complete at least 30 credit hours of letter graded courses in the college, 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 1010C, 3410C, 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 page 33.

The college or department in the college may have specific requirements in addition to those listed in this catalog. College rules or requirements are on file in the dean's office, and departmental rules or requirements are on file in each departmental office. The student is responsible for meeting all graduation requirements.

Grading Systems

Typically, courses in the University receive letter grades (A, B, C, D, F, I). However, the college 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 Team 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 courses required by the departmental major are considered in the students' 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 15-hour rule must be taken by letter grade.
 - B. With the exception of ENC 1102 and ENC 1135, all courses in 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 the College of Natural Sciences.
 - C. Students will be permitted to enroll in a course by 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 semester in which the course is offered.

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

Programs Leading to the Baccalaureate Degree

The College offers the Bachelor of Arts degree with majors in Biology (BIO), Botany (BOT), Microbiology (MIC), and Zoology (ZOO); Chemistry (CHM); Geology (GYL); Mathematics (MTH); Physics (PHY); and Interdisciplinary Natural Sciences (INS) with a concentration in one of the above. The College offers the Bachelor of Science degree with majors in Chemistry (CHS), Clinical Chemistry (CHC), Geology (GLS), Medical Technology (MET), and Physics (PHS). For specific requirements, consult appropriate departmental sections of this Catalog.

Academic Minor Programs

Academic Minors are offered in the departments of Geology and Mathematics. To complete a minor, a student must satisfy the course requirements found in the departmental sections of this catalog and must satisfy the University requirements found on page 36. In addition, the student must earn a grade of "C" or higher in each course used to meet a minor requirement of departments of the College of Natural Sciences.

■ PREPROFESSIONAL SCIENCES

The University of South Florida is an excellent location to prepare for a health profession. The Tampa Veterans Administration Hospital, 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 Natural 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 constitute a degree program; however, preprofessional students should plan to also complete requirements for 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 an optimal 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 prepares students for admission to programs in the health professions of pharmacy and physical therapy. Entrance into all professional schools or programs is competitive, and a student should begin establishing a record of excellence with his 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 Natural Sciences provides the Preprofessional Sciences Advising Office where academic advisers are available. The office maintains a library of current catalogs and books on admission requirements for professional schools and is an important source of information to preprofessional students. A student considering one of the health professions should contact the College of Natural Sciences during his first semester at USF to declare his interest in one of the preprofessional sciences programs described in the following sections. Each student in these programs is assigned to a preprofessional sciences adviser who will assist him in planning an appropriate curriculum. Each semester the adviser provides the student with a record of his progress. The preprofessional sciences advisers constitute the Preprofessional Sciences Commit-

tee. At the time a student makes application to professional school, the Committee prepares an evaluation of the student based upon consideration of the student's academic record and test scores, individual evaluations submitted by five faculty members, and an interview. This comprehensive evaluation is sent to each school to which a student applies; it is an important factor in the admission selection process. In order to avoid difficulty in application and admission to professional school, a student planning on a health profession should declare that interest as soon as possible and begin working with a preprofessional sciences adviser early in his/her academic career.

Preprofessional Sciences Program

The Preprofessional Sciences Program is designed to prepare students for admission to a professional school and therefore should be completed by the junior year, the usual time of application. The following preprofessional core should be completed for application to almost all professional schools of medicine, osteopathic medicine, dentistry, and podiatric medicine:

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

Chemistry: CHM 2045 (3)
CHM 2045L (1)
CHM 2046 (3)
CHM 2046L (1) } or { CHM 2055C (5)
CHM 2056C (5)

CHM 3210 (3) CHM 3211 (3)
CHM 3210L (2) CHM 3211L (2)

Physics: PHY 2050 (3)
PHY 2050L (1)
PHY 2051 (3)
PHY 2051L (1) } or { PHY 3040 (3)
PHY 3040L (1)
PHY 3041 (3)
PHY 3041L (1)

Mathematics:

MAC 2243 (4) } or { MAC 1104 (4)
MAC 2244 (4) } MAC 3411 (4)
MAC 3412 (4)

In addition to these requirements it is generally expected that preprofessional students will complete two semesters of English. CLEP credit generally is not acceptable to professional schools.

Premedical students must include the following courses to meet additional admission requirements of medical schools in Florida:

PCB 3063 (3) STA 3023 (4) BCH 3033 (3)

Some professional schools require or recommend additional courses. The following science courses are frequently specified:

Biology: MCB 3010C (4) PCB 4253C (4) PCB 4184 C (4)
PCB 3063 (3) PCB 4743C (4) ZOO 3713C (4)
PCB 4023C (4)

Chemistry: BCH 3033 (3) CHM 3401 (3) CHM 3120 C (4)
CHM 3400 (3)



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 volunteer work or employment with a veterinarian. Prevetinary students should complete a degree in the major of their choice while including the following entrance requirements:

Biology:

BSC 2010C (4) MCB 3010C (4)
ZOO 2010C (4) PCB 3063 (3)

Chemistry:

CHM 2045 (3)	} or {	CHM 2055C (5)
CHM 2045L (1)		CHM 2056C (5)
CHM 2046 (3)		
CHM 2046L (1)		
CHM 3120C (4)		
CHM 3210 (3)		
CHM 3210L (2)		
CHM 3211 (3)		
CHM 3211L (2)		

Mathematics:

MAC 2243 (4) or MAC 3411* (4)

Physics:

PHY 2050 (3)	} or {	PHY 3040 (3)
PHY 2050L (1)		PHY 3040L (1)
PHY 2051 (3)		PHY 3041 (3)
PHY 2051L (1)		PHY 3041L (1)

In addition, students must have a minimum of 90 hours including 6 hours of English with one course in composition, 6 hours of social science, 8 hours of humanities, and 8 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), PCB 4253C (4), PCB 4743C (4), and BCH 3033 (3).

Prepharmacy Program

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

Biology:

BSC 2010C (4) ZOO 2010C (4)

Chemistry:

CHM 2045 (3)	CHM 3210 (3)
CHM 2045L (1)	CHM 3210L (2)
CHM 2046 (3)	CHM 3211 (3)
CHM 2046L (1)	CHM 3211L (2)

Mathematics:

MAC 2243 (4)	} or {	MAC 1104 (4)
MAC 2244 (4)		MAC 3411 (4)

Physics:

PHY 2050 (3)
PHY 2050L (1)
PHY 2051 (3)
PHY 2051L (1)

In addition, some schools require 7 hours of English and 3 hours of Economics. Prepharmacy students should take the Pharmacy College Admission Test (PCAT) in November of the sophomore year (and no later than the following February) and apply to Pharmacy Schools at that time.

Prephysical Therapy Program

The College offers a two-year program to prepare students for entrance into physical therapy programs at Florida institutions. Prephysical therapy students must complete general education requirements and include the following courses:

Biology:

BSC 2010C (4) ZOO 2010C (4)

Chemistry:

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

Mathematics:

MAC 2243 (4) or MAC 1104 (4)

Physics:

PHY 2050 (3)	PHY 2051 (3)
PHY 2050 L (1)	PHY 2051L (1)

The following additional courses are required or recommended at specific institutions: ZOO 3713C, STA 3023, HUS 4020, HES 2000, PSY 2012, DEP 3103, and a psychology elective.

Preoptometry Program

The Preoptometry Program meets the basic entrance requirements of all accredited schools of optometry in the United States. At least two years are required by optometry schools, and students should include General Distribution requirements in addition to the following required courses;

Biology:

BSC 2010C (4) MCB 3010 (4)
ZOO 2010C(4)

Chemistry:

CHM 2045 (3)	CHM 2046L(1)
CHM 2045L(1)	CHM 3210 (3)
CHM 2046 (3)	CHM 3210L(2)

Mathematics:

MAC 2243 (4) or STA 3122 (3)
STA 3023 (4)

Physics:

PHY 2050 (3)	PHY 2051 (3)
PHY 2050L(1)	PHY 3051L(1)

In addition, some schools require MAC 2244, PCB 3700, ZOO 3713, CHM 3211, CHM 3211L, BCH 3033, PSB 4743C, PSY 2012, PSY 3013, PSY 3213, and a social sciences elective.

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 Natural 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 the College of Natural 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) ZOO 2010C (4)

Chemistry:

CHM 2045 (3)	} or {	CHM 2055C (5)
CHM 2045L(1)		CHM 2056C (5)
CHM 2046 (3)		
CHM 2046L(1)		

CHM 3210 (3) CHM 3211 (3)
CHM 3210L(2) CHM 3211L (2)

Physics:

PHY 2050 (3)	or	PHY 3040 (3)
PHY 2050L(1)		PHY 3040L (1)
PHY 2051 (3)		PHY 3041 (3)
PHY 2051 (1)		PHY 3041L (1)

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

Biology:

PCB 3063 (3)	PCB 4253C (4)	MCB 3010C (4)
PCB 4023C (4)	ZOO 3713C (4)	PCB 4184C (4)

Chemistry:

BCH 3033 (3)	CHM 3401 (3)	CHM 3120C (4)
CHM 3400 (3)		

Mathematics:

STA 3023 (4)	or	MAC 1104 (4)
MAC 2243 (4)		MAC 3411 (4)
MAC 2244 (4)		MAC 3412 (4)

- Completion of the General Distribution requirements of the college of Natural Sciences as approved by the student's adviser.
- At least 30 credit hours with letter grades earned in the College of Natural Sciences.
- 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.

Postbaccalaureate Premedical Sciences Program

A special two-year non-degree program is administered by the Preprofessional Sciences Committee of the College of Natural Sciences for students who hold a baccalaureate degree and are seeking to improve their academic record for application to professional schools. The program is particularly for previously rejected applicants who need to improve their grade point average and demonstrate their ability to perform well in the sciences. Students in the program will have the advantage of priority registration in the College of Natural Sciences, and upon completion of the program will be evaluated by the Preprofessional Sciences Committee in a letter sent to the professional schools where students are applying.

In order to be admitted to the program, students must have a baccalaureate degree and be interviewed by the Preprofessional Sciences Committee. Students must demonstrate to the Committee potential for success through this program by their recent improvement in academic record, performance in science courses, previous test scores, and motivation for the profession. Students who do not have a baccalaureate degree from the University of South Florida must provide two letters of recommendation.

Once admitted to the program students must complete a minimum of 15 hours per semester (excluding summers) of courses approved by the Preprofessional Sciences Committee with a minimum grade point average of 3.3 each semester. An approved schedule would typically include at least three rigorous science courses. Courses will generally be at the undergraduate level, selected from those listed in the preprofessional sciences program or other advanced sciences. Students should expect to complete at least one year in the program prior to re-application to professional schools, but a second year may be necessary for some students. Students lacking familiarity with the profession will be expected to obtain adequate exposure while enrolled in the program.

GRADUATE LEVEL DEGREE PROGRAMS

Programs of graduate study are available in every department of the College of Natural Sciences. Students apply for graduate work through the College of Natural Sciences and are recommended for admission by the department in which they intend to concentrate. A departmental committee is appointed which supervises and guides the program of the candidate. The general University requirements for graduate work at the master's level are given on page 52 and for the Ph.D. degree on page 53. The specific requirements for each department are listed under that department below. For further information regarding admission and the availability of fellowships and assistantships a candidate should write to the appropriate departmental chairperson, University of South Florida, Tampa, Florida 33620.

Master's Degree Programs

The College of Natural Sciences offers graduate programs leading to the Master of Arts degree in the fields of Botany (BOT), Mathematics (MTH), Microbiology (MIC), Physics (PHY), and Zoology (ZOO); and a Master of Science degree in Chemistry (CHM), Geology (GLY), and Marine Science (MSC).

Doctor's Degree Programs

The College of Natural Sciences offers three programs leading to the degree of Doctor of Philosophy:

Biology (BIO)—This program leads to the Ph.D. in Biology, including the fields of Marine Biology, Systematics, Behavior, Ecology, and Physiology.

Chemistry (CHM)—This program leads to the Ph.D. in Chemistry, including the fields of Analytical, Biochemistry, Inorganic, Organic and Physical Chemistry.

Mathematics (MTH)—This program leads to the Ph.D. in Pure and Applied Mathematics.

Marine Science (MSC)—This program leads to the Ph.D. in Marine Science.

Oceanography (OCE)—This cooperative program with Florida State University leads to the Ph.D. in Oceanography.

College Regulations Governing Graduate Study

The following regulations are in addition to the University regulations governing study found on pages 48-53.

Admission. The College of Natural Sciences requires a minimum of a "B" average in the last two years of undergraduate work and a minimum of 1000 (1100 for marine science applicants) on the Graduate Record Examination for admission to any of its graduate programs.

Applicants with a "B" average in the last two years of undergraduate work or a minimum of 1000 on the Graduate Record examination may be considered for provisional admission subject to departmental recommendation.

Applicants who do not meet either of the above conditions must meet the 10% exception criteria described on page 48 and must have the recommendation of the department offering the degree to be considered for provisional admission.

Enrollment Levels. A student who enrolls in eight or more credit hours leading to a graduate degree is classified as a fulltime student.

Once a major professor has been assigned and/or a student occupies or utilizes significant space or facilities for research or analogous scholarly activity directly pertinent to the generation of his/her thesis, he/she shall enroll for not less than three hours of research and/or thesis and/or dissertation each semester other than the summer semester, except that no student shall be required for the purposes of this rule to enroll for more than eight hours total per semester. Additional requirements may be imposed in any department in the college.

A student must be registered for an appropriate load (in no case fewer than three hours) in the college for the semester in which all degree requirements are satisfactorily completed.

Grade Levels. To remain in good standing, a graduate student must maintain a cumulative grade point average of at least 3.0. A graduate student whose cumulative grade point average falls below 3.0 will be placed on probation and must meet the college probation requirements to be reinstated to good standing. A graduate student who receives three grades below "B" in structured courses required by his advisory committee to meet the structured course requirements of the degree shall be dismissed from the program.

Registration in Research, Thesis and/or Dissertation Courses. Registration in courses entitled Directed Research: Master's, or Dissertation: Doctoral must be with the approval of the major professor and the concurrence of the departmental graduate studies coordinator and must be commensurate with each student's research plan. A student who enrolls in courses entitled Thesis: Master's but does not submit a thesis or who enrolls in Dissertation: Doctoral but does not submit a dissertation will not be certified for graduation.

Master's Program.

A graduate student working on a master's degree in a program in the College of Natural Sciences which requires a thesis must register in course 6971 when engaged in research, data collection, or writing activities relevant to the master's thesis. Advisers should assign the number of credits in this course appropriate to the demands made on faculty, staff, and university facilities, but in no event will the total number of earned thesis credits be less than six.

Ph.D. Program

Following admission to candidacy, a graduate student in a Ph.D. program in the College of Natural Sciences must enroll in course 7980 when engaged in research, data collection, or writing activities relevant to doctoral dissertation. Advisers should assign the number of credits in this

course appropriate to the demands made on faculty, staff, and university facilities, but in no event will the total number of earned dissertation credits be less than 16. Students not admitted to candidacy are not eligible to enroll in 7980.

All Graduate Students.

Students in a graduate program in the College of Natural Sciences must be either active or on a leave of absence granted by the department. Students on active status must register for a minimum of one hour of graduate level course work each semester.

During any semester that a student is utilizing research space, other university facilities, faculty/staff time, or completing any requirements for the degree including thesis (dissertation) defense or approval, the student must register for a minimum of three graduate credit hours.

A maximum of 10 credit hours (six for physics graduate students) of combined thesis, research, and seminar courses may apply towards a degree.

Additional Regulations. Additional regulations concerning graduate study may be found in the departmental sections of this Catalog or are on file in the Office of the Dean. The student is responsible for meeting all requirements of his/her degree program.

TEACHER EDUCATION PROGRAMS

The College of Natural Sciences offers B.A. and M.A. degree programs for secondary school teachers and the M.A. degree for junior college teachers.

B.A. Degree Program for Secondary School Teachers:

The College of Natural Sciences in cooperation with the College of Education offers degree programs in Mathematics (MAE), in Botany (BOE), in chemistry (CHE), in Physics (PHE), in Zoology (ZOE), and in Science (SCE). Because requirements exist in both colleges, a student will have an adviser in each college. At the outset the planned courses in mathematics and science must be approved by the student's adviser in the College of Natural 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 on page 129. 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.

M.A. Degree Program for Secondary School Teachers:

The College of Natural Sciences in cooperation with the College of Education offers the M.A. degree in mathematics (MAE) and in Science (SCE). In science, concentrations are available in biology, chemistry, and physics. Because requirements exist in both colleges the student will have an adviser in each college. At the outset the planned courses in mathematics and science must be approved by the student's adviser in the College of Natural Sciences.

The University requirements for the M.A. degree are found on page 48. Mathematics majors must complete a minimum of 34 semester hours; science majors must complete at least 18 semester hours in the discipline of concentration. For requirements in education the student should consult the College of Education portion of this catalog.

M.A. Degree Program for Junior College Teachers:

The M.A. degree program for junior college teachers is available in the College of Natural Sciences with specializations in biology, chemistry, geology, mathematics, or physics.

The student may complete the M.A. degree in a program offered jointly by the College of Natural Sciences and the College of Education. This program requires 24 hours in mathematics or science specialization courses which must be approved by the student's adviser in the College of Natural Sciences. Credit hours are also required in professional education courses and credits are required in internship depending on the amount of teaching experience of the student. For requirements in education, the student should consult the College of Education portion of the catalog.

CURRICULA

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 Arts 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.A. Degree

I. Department of Biology Courses

A. Biology Core Courses (Required for all B.A. degrees, 15 cr. hrs.)

BSC 2010C (4)

One of the following:

BOT 2010C (4)

ZOO 2010C (4)

MCB 3010C (4)

plus

PCB 3063 (3)

and

PCB 4023C (4)

PCB 3063 (3)

PCB 4023C (4)

B. Individual Degree Requirements**BIOLOGY MAJOR (BIO) (25 cr. hrs.)**

One of the following:

- PCB 4743C (4)
BOT 4503 (4)
MCB 4404 (4)

plus one of the following:

- PCB 3183C (4)
PCB 4253C (4)

In addition, a student *must* choose *two* courses from the following list:

- PCB 5235C (3)
PCB 5525 (3)
ZOO 5235 (4)

- ZOO 3713C (4) or BOT 4223C (3)
PCB 6816 (3)
PCB 5725C (4)
PCB 5835C (3)

The remaining credits may be taken from courses numbered 4000 or above in the Biology Department. A maximum of 4 credits in Biochemistry may be applied toward the Biology major.

BOTANY MAJOR (BOT) (25 cr. hrs.)

- BOT 2010C (0)
BSC 2010C (4) or MCB 3010C (4)
BOT 4503 (4)
PCB 4043C (3) or BOT 5605C (3)
BOT 4933 (1)

Of the remaining credits, not less than 8 must be selected from structured Botany(BOT) courses at the 4000 level or above.

MICROBIOLOGY MAJOR (MIC) (23-26 cr. hrs.)

- BSC 2010C (4) or ZOO 2010C (4)
MCB 3010C (0)
MCB 4115 (5)
APB 4053C (4) or PCB 5235C (3)
MCB 4404 (4)
MCB 4505 (3)
MCB 4934 (1)

One of the following:

- APB 5575C (4)
BOT 4434C (3)
BOT 5404 (3)
ZOO 5235C (4)

ZOOLOGY MAJOR (ZOO) (23-26 cr. hrs.)

- ZOO 2010C (4)
BOT 2010C (4) or MCB 3010C (4)
PCB 4043C (3)
PCB 4743 (4)
PCB 4674 (3)

Three (3) additional structured courses from the Zoology (ZOO, PCB, ENY) or Biology (BSC, PCB) courses listed in this catalog.

II. Supporting Courses in the Natural Sciences (Required for all B.A. degrees, 30-38 cr.)**Chemistry**

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

Plus

- CHM 3200 (4) } or { CHM 3210 (3)
CHM 3210L (2) } { CHM 3210L (2)
CHM 3211 (3)
CHM 3211L (2)

Mathematics

- MAC 2243 (4) } or { MAC 3411 (4)
MAC 2244 (4) } { MAC 3412 (4)
STA 2023 (4)

Physics

8 credits in introductory physics.

III. General Distribution Requirements (Required for all B.A. Degrees, 18 cr., assuming waivers of Areas III & IV). Each student is required to satisfy the General Distribution requirements of the College of Natural Sciences (see page 120). The selection of courses within the

requirement 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 Natural Sciences (see page 120).

V. Free Electives (including General Distribution waivers) can be taken over and above major requirements and major electives to complete a 120 hour program.**Teacher Education Programs:**

For information concerning the degree programs for secondary school teachers and junior college teachers, see page 86 and 90 of this 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:

- BOT 5185 (Marine Botany)
BOT 5405 (Phycology)
ZOO 3203C (Introductory Invertebrate Zoology)
ZOO 5455C (Ichthyology)
ZOO 5555C (Marine Animal Ecology)
ZOO 5815C (Biogeography)

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

Requirements for the M.A. Degree:

General requirements for graduate work are given on page 51.

Major programs are offered in Botany, Microbiology and Zoology. The M.A. degree requires completion of structured coursework, a research thesis or a review paper, and passing a comprehensive examination.

It is expected that students will have had undergraduate training comparable to that of a USF undergraduate in biology. Any deficiencies completed after admission to the graduate program cannot be used to complete graduate requirements.

The departmental graduate coordinator functions as the student's adviser until the student makes arrangements for a faculty member to serve as major adviser. The selection of a major adviser includes acceptance of the student by the faculty member. The major adviser and two additional faculty constitute the student's supervisory committee which must be established within two semesters after matriculation. Failure to do so will be cause for dismissal. The supervisory committee must be approved by the departmental chairperson and the college dean.

For students enrolled in the thesis program, a 30 credit hour minimum is required at the 5000-6000 level; 16 must be at the 6000 level or above; 20 of the 30 credit hours must be in formally structured courses of which 15 must be biology; 8 of the 15 credit hours must be at the 6000 level or above. All students in the thesis program must complete the graduate seminar (BSC 6935). A maximum of 10 hours of combined thesis, research and seminar may apply toward degree.

For students enrolled in the non-thesis program, a 30 credit hour minimum is required at the 5000-6000 level; 26 credits must be informally structured courses. 16 credits must be at the 6000 level or above; 15 must be in biology.

A final comprehensive examination is required for all students. This examination is open to all departmental faculty and is normally taken after the completion of formal course work and at least one semester before thesis presentation.

In some cases, the ability to translate pertinent scientific literature from a foreign language must be demonstrated before taking the comprehensive examination.

Requirements for the Ph.D. Degree:

General requirements are given on page 53.

A doctoral program in biology is offered. Areas of specialization for the Ph.D. are marine biology, ecology (tropical ecology, population ecology, and physiological ecology), molecular biology, physiology (cellular physiology, microbial physiology, neurophysiology), systematics and behavior.

It is expected that students will have had undergraduate training comparable to that of a USF undergraduate in biology. Any deficiencies completed after admission to the graduate program can not be used to complete graduate requirements.

The departmental graduate coordinator functions as the student's adviser until the student makes arrangements for a faculty member to serve as major adviser. The selection of a major adviser includes acceptance of the student by the faculty member and must be done within 2 semesters after matriculation. Applicants are strongly urged to contact faculty conducting research in the student's areas of interest. The major adviser and four additional faculty constitute the student's supervisory committee. The supervisory committee must be approved by the departmental chairman and the college dean.

Twenty credit hours are required in structured graduate-level courses, as well as any additional courses necessary to the needs of the student's program as determined by the supervisory committee. A maximum of six hours may be waived with the approval of the supervisory committee if the student has earned this amount of graduate credit at another recognized university. Individuals who receive the M.A. degree from the Department of Biology at USF may waive 10 credits with the approval of the supervisory committee. A total of 90 credits above the baccalaureate must be earned; this includes any graduate credit earned prior to admission to the doctoral program.

Doctoral students must pass a qualifying examination. The written and the oral portions must be taken within 4 semesters after matriculation. Any language or other technical skills required by the supervisory committee must be completed within 4 semesters after matriculation. If the doctoral degree is not awarded within five years after passing the qualifying examination, the examination must be retaken and passed.

The student is eligible for admission to candidacy after completion of structured course requirements and passing the qualifying examinations, upon recommendation of the supervisory committee and approval of the Dean of the College and the Director of Graduate Studies. Students must complete all requirements for admission to candidacy by the end of the second year after matriculation.

A public seminar presenting the dissertation is required. A final oral examination administered and evaluated by the supervisory committee emphasizes the dissertation and the student's general field of research.

Graduate Application Deadlines:

Applications must be completed by February 15 for fall applicants who wish to be considered for assistantships. All other applications must be completed by the twelfth week of the semester preceding the one for which application is made.

Applicants must have a score of at least 640 on the advanced test, and a combined score of at least 1100 on the aptitude portion of the Graduate Record examination.

■ 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, Master of Science and Doctor of Philosophy, each with specialization in the areas of analytical chemistry, biochemistry, inorganic chemistry, organic chemistry, and physical chemistry, at the graduate level. The chemistry faculty is comprised of 27 full-time senior 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 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 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. Interested students should see the Coordinator of the Clinical Chemistry Program in the Department of Chemistry for further information.

In graduate work, the excellent physical facilities and very low student-teacher ratio combine to afford unique opportunities for advanced study in chemistry. In addition to the five traditional fields, analytical chemistry, biochemistry, inorganic, organic, and physical chemistry, research opportunities are also available in such interdisciplinary and specialized areas as bio-organic and bio-inorganic chemistry, clinical chemistry, environmental chemistry, Fourier Transform nuclear magnetic resonance, lasers and photo-chemistry, marine chemistry, photoelectron spectroscopy (ESCA), and pharmaceutical chemistry.

Requirements for the Baccalaureate Degrees

I. Chemistry Courses*

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

CHM 2045	(3)	}	or	{		
CHM 2045L	(1)				CHM 2055C	(5)
CHM 2046	(3)				CHM 2056C	(5)
CHM 2046L	(1)					
CHM 3120C	(4)				CHM 3400	(3)
CHM 3210	(3)				CHM 3401	(3)
CHM 3210L	(2)				CHM 3402	(1)
CHM 3211	(3)				CHM 3610C	(4)
CHM 3211L	(2)					

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

B.S. CHEMISTRY (CHS) (46 cr. hrs.)

BCH 3033	(3)	}	or	{		
CHM 2045	(3)				CHM 2055C	(5)
CHM 2045L	(1)				CHM 2056C	(5)
CHM 2046	(3)					
CHM 2046L	(1)					
CHM 3120C	(4)					
CHM 3210	(3)				CHM 4131C	(4)
CHM 3210L	(2)				CHM 4410	(3)
CHM 3211	(3)				CHM 4411	(3)
CHM 3211L	(2)				CHM 4412	(3)
CHM 4060	(1)				CHM 4610	(3)
CHM 4130C	(4)					

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

BCH 3033	(3)	}	or	{		
BCH 3033L	(2)					
BCH 2045	(3)				CHM 2055C	(5)
BCH 2045L	(1)				CHM 2056C	(5)
CHM 2046	(3)					
CHM 2046L	(1)					
CHM 3120C	(4)					
CHM 3210	(3)				CHM 4410	(3)
CHM 3210L	(2)				CHM 4412	(3)
CHM 3211	(3)				CHS 4100C	(3)
CHM 3211L	(2)				CHS 4300	(3)
					CHS 4301L	(1)
					CHS 4302	(4)
					CHS 4310C	(5)

*CHM 2055-CHM 2056C (10) may be substituted for CHM 2045, CHM 2046, CHM 2045L, CHM 2046L and CHM 3120C (12). This reduces by two the credit hours of required chemistry courses in each degree program.

II. Supporting Courses in the Natural Sciences

B.A. CHEMISTRY (CHM) (26 cr. hrs.)

MAC 2243 (4)	PHY 2050 (4)	PHY 2051 (4)
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MAC 2244 (4) PHY 2050L (1) PHY 2051L (1)
Electives (must be acceptable for credit towards a Natural
Science College discipline major) (8)

B.S. CLINICAL CHEMISTRY (CHC) (38-42 cr. hrs.)

BSC 2010C	(4)		MCB 3010C	(4)
ZOO 2010C	(4)		PHY 4744C	(3)
COC 3300	(3)			
MAC 3281	(3)	} or {	MAC 3411	(4)
MAC 3282	(3)		MAC 3412	(4)
MAC 3283	(3)			

PCB 3700	(5)	or	PCB 4743C	(4)
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PHY 2050	(4)	} or {	PHY 3040	(3)
PHY 2050L	(1)		PHY 3040L	(1)
PHY 2051	(4)		PHY 3041	(3)
PHY 2051L	(1)		PHY 3041L	(1)

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

MAC 3281	(3)	} or {	MAC 3411	(4)
MAC 3282	(3)		MAC 3412	(4)
MAC 3283	(3)		MAC 3413	(4)
PHY 3040	(3)		PHY 3041	(3)
PHY 3040L	(1)		PHY 3041L	(1)

Physics 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 at that time. CHM 4410 is a prerequisite also to other advanced courses required for the B.S. degree in chemistry.

III. General Distribution Courses

(40 cr. hrs. excluding waivers)

The student is required to complete the General Distribution requirements of the College of Natural Sciences. (see page 120.)

IV. Liberal Education Electives

The student must satisfy 15 hours of liberal education electives as described in item 3 of the graduate requirements of the College of Natural Sciences. (See page 120.)

V. 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.

†Students taking CHM 2055C-2056C must add 2 more hours of free electives.

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 and junior college teachers, see page 86 and 90 of this Catalog.

Requirements for the M.S. Degree:

General requirements for graduate work are given on page 48.

All entering graduate students who have no advanced work beyond a B.A. or B.S. will be required to take the core courses in each of five areas: Analytical, Biochemistry, Inorganic, Organic, and Physical Chemistry. This requirement can be waived by recommendation of the supervisory committee on the basis of past work, performance on a diagnostic test, or substitution of more comprehensive and advanced courses. The required core courses are:

BCH 5065	CHM 5425	CHM 6150
CHM 5225	CHM 5621	

Qualifying Requirements

All entering graduate students will be required to pass Qualifying Examinations in three of the five divisional areas—Analytical, Biochemistry, Inorganic, Organic, and Physical Chemistry, which are set during the week prior to the first term of enrollment. These examinations are graded high-pass, pass, and fail and passes can be applied to the M.S. and Ph.D. comprehensive examination requirement. A failure indicates the student is deficient and the means for alleviation will be determined by the Department Graduate Council.

A second set of examinations will be administered at the end of the student's first academic year (two semesters). To qualify for the M.S. the student must pass three (3) of the examinations and one of the passes must be in his/her area of specialization. These three passes constitute his/her comprehensive examination requirement.

The declared M.S. student must satisfy the comprehensive examination requirement within one academic year of his/her initial enrollment.

Course Requirements

Each student is required to pass graduate level core courses (3 semester hours each) in all five divisional areas as described above. These contribute to the minimum course requirement of 30 semester hours of which 16 semester hours must be at the 6000 level with 10 of these in formal regularly scheduled courses.

Final Thesis Defense

Upon completion of the thesis research and preliminary approval of the thesis by the supervisory committee, the M.S. candidate will be orally examined by the committee on the results of his/her research.

Requirements for the Ph.D. Degree

Qualifying Requirements

Each student will be required to pass Qualifying Examinations in three of the five divisional areas—Analytical, Biochemistry, Inorganic, Organic and Physical Chemistry as described under the M.S. degree requirements. Qualifying requirements must be completed within one academic year (2 semesters) of initial enrollment.

Course Requirements

Each student is required to pass graduate core courses of 3 semester hours each in all five divisional areas as described under the M.S. degree requirements. These will contribute to the minimum course requirement of 90 semester hours of which 12 must be in structured 6000-level chemistry courses.

Language Requirements

A reading knowledge of the chemical literature in any two of the languages—German, Russian, and French (or any other language approved as appropriate by the supervisory committee) must be demonstrated. As an alternative to one or both of the language requirements the student may demonstrate proficiency in skills or specializations outside the discipline of chemistry but pertinent to scholarly work in chemistry.

Major Comprehensive Examination

A comprehensive examination must be passed in the student's area of specialization. This examination must be passed within two (2) years from the end of the student's first academic year and one year before graduation.

Admission to Candidacy

Completion of the foregoing requirements admits the student to candidacy for the Ph.D.

The supervisory committee of doctoral students must evaluate the student for admission into candidacy by the end of the three years (six semesters after matriculation.) If the committee does not recommend admission to candidacy by that time, it may dismiss the student or grant an extension for the immediately subsequent semester. At the end of the additional semester (the 7th semester enrollment, excluding summers), the committee must recommend that the student be admitted to candidacy or dismissed from the program.

Final Dissertation Defense

When the Supervisory Committee has inspected the final draft (final unbound form; typewritten and ready for duplication with the exception of possible minor corrections) of the dissertation and finds it suitable for presentation, the Major Professor will complete a form requesting the scheduling and announcing of the final oral examination. The request form will be submitted via the department chairperson to the College Dean and the Director of Graduate Studies for approval. The final oral examination must be held at least three weeks before the end of the semester in which the student is to be awarded the degree. The required copies of the completed dissertation signed by the Committee must be received by the Dean of the Graduate School at least two weeks before the end of the semester.

The Examination Committee shall consist of a chairperson and the members of the student's Supervisory Committee including the Major Professor(s). The Chairperson of the Examination Committee shall be appointed by the Dean of the College and shall not be a member of the student's Supervisory Committee or the department or program in which the degree is sought.

The candidate may expect questions concerning the details and significance of the research after the oral presentation which is open to the public. Final approval of the candidate's degree will require approval by a majority of the Examination Committee, which shall include the Chairperson.

■ 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 specialize in nearly all of the major areas of concentration. Because of the geographic and geologic location of the University in a rapidly expanding urban center of coastal Florida, there are a number of areas of specialization which are being emphasized. These include coastal geology, hydrogeology, low temperature and pollution geochemistry, applied geophysics, geology of carbonate rocks and phosphate deposits. All of these are closely related to local problems of the environment.

Requirements for the B.A. Degree:

I. Geology Courses (30 sem. hrs.)

GLY 2016	(4)	GLY 3610	(4)	GLY 4550	(3)
GLY 2100	(4)	GLY 4200	(4)		
GLY 3400	(4)	GLY 4220	(5)		

A minimum of 2 sem. hrs. from

GLY 4920 (1)

II. Supporting Courses (22-28 sem. hrs.)

- a. CHM 2045 (3) } or { CHM 2055C (5)
 CHM 2045L (1) } { CHM 2056C (5)
 CHM 2046 (3) }
 CHM 2046L (1) }
- b. Two courses in mathematics at 2000 level or above (6-8 sem hrs.)
- c. Two courses in biology or physics selected from:
- | | |
|----------------|---------------------------|
| BSC 2010 | (4) |
| BOT 2010C | (4) |
| ZOO 2010C | (4) |
| PHY 2050-2050L | (5) or PHY 3040-3040L (4) |
| PHY 2051-2051L | (5) or PHY 3041-3041L (4) |

III. General Distribution Courses (40 sem. hrs. excluding waivers.)

The student is required to satisfy the General Distribution requirements of the College of Natural Sciences (See page 120).

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 Natural Sciences (see page 120).

V. Free Electives (Including Distribution waivers) (29-35 sem. hrs.)

Requirements for the B.S. Degree:

I. Geology (40-42 sem. hrs.)

GLY 2016	(4)	GLY 3610	(4)	GLY 4220	(5)
GLY 2100	(4)	GLY 4200	(4)	GLY 4550	(3)
GLY 3400	(4)				
GLY prefixed structured electives					(6)

A minimum of 2 sem. hrs. from:

GLY 4920 (1)

Field Geology requirement (4-6 sem. hrs.) can be fulfilled by taking GLY 4750 (3) and GLY 5932 (2) or by taking geology summer field course at another institution.

II. Supporting Courses (22-26 sem. hrs.)

CHM 2045	(3)				
CHM 2045L	(1)				
CHM 2046	(3)		or	CHM 2055C	(5)
CHM 2046L	(1)			CHM 2056C	(5)

MAC 3281	(3)			MAC 3411	(4)
MAC 3282	(3)		or	MAC 3412	(4)

PHY 3040	(3)			PHY 3041	(3)
PHY 3040L	(1)			PHY 3041L	(1)

III. General Distribution Courses (40 sem. hrs. excluding waivers.)

The student is required to satisfy the General Distribution requirements of the College of Natural Sciences, (See page 120).

V. Free Electives (Including Distribution Waiver) 19-25 sem. hrs.

The student will choose, in consultation with his/her Geology adviser, such courses in the College of 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 student anticipating a major in Geology is advised to enroll in:

GLY 2016	CHM 2045	CHM 2046
GLY 2100	CHM 2045L	CHM 2046L

in the freshman year and to seek curriculum counseling with a Geology adviser.

Minor in Geology

A minor in geology consists of 16 credit hours and must include GLY 2016 and 2100. Additional courses approved by the geology adviser, 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.

Requirements for the M.S. degree:

Requirements for admission to the Graduate School and general graduate curriculum guidelines are given on page 48).

Students are admitted for graduate work in Geology if they present the requisite background in Geology and supporting sciences. The bachelor's degree with a major in Geology or a major in other sciences with strong supporting program in geosciences is required. Students who wish to enter the graduate program in Geology without the proper background will be required to take some undergraduate courses without receiving credit toward their master's program. In addition, a formal summer field course or equivalent professional experience is required.

The curriculum for a Geology graduate student will vary depending on the area of interest of the individual. Course work for the degree will be determined by the thesis committee after consultation with the student.

A minimum of 30 semester hours plus thesis (GLY 6971) is required for the master's degree of which at least 16 must be in courses numbered 6000 and above. 24 semester hours must be in structured courses, 10 of which must be 6000 of above. All graduate students must take Graduate Seminar (GLY 6931) at least two times and GLY 6933 at least once.

All students must have completed one course in each of the following areas at either the undergraduate or graduate level; geochemistry, geophysics, geostatistics and igneous and metamorphic petrology or their equivalents. All full-time students must register for at least one structured course per semester during their first two years. A written thesis in the student's field of specialization is required. A comprehensive oral qualifying exam is to be taken by the end of the first semester in the program. An oral thesis defense and a public presentation of the thesis are also required.

■ INTERDISCIPLINARY NATURAL SCIENCES (INS)

The Bachelor of Arts in the Interdisciplinary Natural Sciences major is designed for majors in an interdisciplinary program in the College 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 on page 124, and also consult the College of Education section of the catalog.

The requirements for graduation for this degree are the same as those contained on page 120 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 College of Natural Sciences courses applicable to a major in the College. 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. 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 College of Natural Sciences Majors only completion of a minimum of 45 hours in College of Natural Sciences courses applicable to a major in the College. 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 department in the College outside the discipline of major concentration. Courses in the supporting core must be taken from the following:

BSC 2010 C and one of the following:

BOT 2010C

ZOO 2010C

MCB 3010C

CHM 2045

CHM 2045L

CHM 2046

CHM 2046L

GLY 2016

GLY 2100

or { CHM 2055
CHM 2056

MAC 2243

MAC 2244

or { MAC 3411
MAC 3412
MAC 3413

or { MAC 3281
MAC 3281
MAC 3283

PHY 2050

PHY 2050L

PHY 2051

PHY 2051L

or { PHY 3040
PHY 3040L
PHY 3041
PHY 3041L

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

■ MARINE SCIENCE (MSC)

Marine Science is a unique interdisciplinary department in the College of Natural Sciences of the University of South Florida. It is devoted to research, graduate instruction, and public service in biological, chemical, geological, and physical oceanography. More than sixty M.S. degrees have been awarded since the formation of the Department in 1967. In July 1981, the Florida State University System Board of Regents approved an independent Ph.D. program for the Department of Marine Science to complement the previously existing cooperative program with the Department of Oceanography of Florida State University (FSU). Research emphasis will continue to be on interdisciplinary efforts in marine biology, chemistry, geology, and physics. Some students, particularly in physical oceanography, may find it advantageous to work through the cooperative program with FSU.

Marine Science occupies a large building (82,000 square feet) located on a peninsula at Bayboro Harbor, adjacent to downtown St. Petersburg. The harbor is able to accommodate any ship in the U.S. fleet of oceanographic vessels, making the Department ideally situated for an oceanographic research operations. Construction of a new machine shop and warehouse building will begin in the Fall of 1981.

The Department operates a number of boats ranging in size up to 36 feet. A larger ship, the 65 foot *R/V Bellows*, is generally available through the Florida Institute for Oceanography (FIO), located in the same building as the Department. FIO serves faculty members at all the institutions in the State University System by providing shiptime, equipment, and, at times, coordination for multi-institutional proposals. The Department's specialized laboratories include those for trace metal analysis, water quality, organic and isotope geochemistry, optical oceanography, sedimentology, micropaleontology, benthic ecology, phycology, bacteriology, ichthyology, planktonology, and a flume facility for interdisciplinary boundary layer studies.

Student Admission

Prospective students with baccalaureate degrees in biology, chemistry, geology, physics, or mathematics generally possess an adequate course work background for undertaking graduate studies in marine science. Those with such degrees who have an upper-level undergraduate grade point average of 3.0 or better and a Graduate Record Examination score of 1100 or more (verbal + quantitative) are encouraged to apply for the Master of Science program. In addition to meeting the GPA and GRE standards noted above, other factors such as the research interests of the prospective student and the availability of suitable laboratory space and equipment, will be considered. Admission to the Ph.D. program will be more selective than for the M.S. program.

The Department has graduate fellowship and assistantship funds at its disposal, as well as out-of-state tuition waivers; and most of the individual faculty members are able to hire students to work part time on research grants. Those in need of financial support are urged to have their applications completed by March 1. Awards of scholarships and assistantships will generally be announced by June 1.

Admissions materials for students entering the Fall Semester must reach the Department by March 1; for those wishing to enter the Spring Semester, materials must be in by October 15. Items required for a complete application are: (1) official transcripts of grades, (2) GRE scores (verbal + quantitative), (3) three letters of recommendation which you solicit, and (4) an essay describing your research interests in marine science. Since items (1) and (2) should be sent directly to the Graduate Admissions office in Tampa, sufficient time should be allowed for their processing so that they are received by the Department before the review dates. Only items (3) and (4) are sent directly to the Marine Science Department. Applications which are not complete by the review dates will not receive review but will be automatically updated to the next semester (Fall or Spring only).

Requirements for the M.S. Degree

General requirements are given on pages 48-53. A minimum of 32 credits must include OCC 5050, OCG 5050, OCP 5051, and OCB 5050. A grade of "B" or better must be obtained in each of these core courses. The student may emphasize biological, chemical, geological, or physical oceanography through his thesis research and course work. A thesis is required but a foreign language is not.

Requirements for the Ph.D. Degree

The Ph.D. in Marine Science is offered through the Marine Science program at the University of South Florida and through a cooperative program with the Department of Oceanography at Florida State University. Those students opting the cooperative Ph.D. in Oceanography must also apply to FSU with full and original credentialing (application, transcripts, GRE scores, and three letters of recommendation).

Students with exceptional qualifications may be accepted to work directly toward the Ph.D. without first earning the M.S. degree. However, in most cases, the master's degree will be a prerequisite. The latter may have been earned in marine science or one of the related areas, i.e., biology, chemistry, geology, mathematics, or physics.

In addition to the requirements given on page 53, USF Marine Science doctoral program requirements are as follows:

1. OCC 5050, OCG 5050, OCP 5051 and OCB 5050; a grade of "B" or better must be obtained in each of these core courses.

2. The "tools of research" requirement consists of two foreign languages or one foreign language and facility in computer techniques. The Department will administer these proficiency examinations.

3. The qualifying examination will consist of a written and an oral exam. At least four of five examiners must vote to pass the candidate.

In the cooperative USF-FSU oceanography program, a student's committee will be comprised of faculty from both institutions. Residency may be met on either campus. Any member of the graduate faculty at

either University (USF or FSU) may serve on a doctoral committee but the majority must have FSU doctoral directive status. Each committee will consist of at least five faculty members. One member of the doctoral committee shall be from a science department outside Marine Science or Oceanography. The committee appointments shall be by agreement between the two department chairpersons (USF and FSU).

■ 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 has a flexible Ph.D. program which is designed to encourage students to take an active role in the shaping of their own curricula. This flexibility is coupled with a desire to promote interdisciplinary research. In cooperation with the Departments of Marine Science and Physics, and the Colleges of Engineering and Medicine, the department offers special Ph.D. programs in the applications of mathematics. While programs in the more traditional areas of pure mathematics are offered, the department is committed to emphasizing applied mathematics at both the graduate and undergraduate levels. For both undergraduate and graduate work, students and faculty have access to the University's computer, an IBM 3033.

The Department of Mathematics consists of 29 fulltime 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 Program I and Program II requirements below will constitute the major program referred to in the general graduation requirements of the College of Natural Sciences.

I. Mathematics Requirement (Min. 38 cr. hrs.)

Majors must complete the following courses and either Program I or Program II.

COP 3215	(3)	MHF 3102	(3)
MAC 3411	(4)	MAS 3103	(3)
MAC 3412	(4)	MAA 4211	(4)
MAC 3413	(4)	MAA 4212	(4)

Program I

Three (3) courses (including one sequence) from the following:

MAS 4302	(3)	MAA 5306-5307	(6)
MAS 5146	(3)	MAA 5402-5403	(6)
STA 4442	(3)	MAS 5311-5312	(6)
		MTG 5316-5317	(6)

Program II

Four (4) courses (including one sequence) from the following:

MAP 4302	(3)	MAA 5306-5307	(6)
MAS 5146	(3)	MAP 5316-5317	(6)
MAA 5405	(3)	MAP 5205	(3)
MAD 4401	(4)	STA 4442-4321	(6)

Although the following description of Programs I and II is neither exhaustive nor restrictive, it is intended as a general guide. *Program I* is a liberal arts program designed to prepare a student in pure mathematics which could lead to either graduate study in pure or applied mathematics, a teaching career, or a career where mathematical approaches to problems are needed, such as law or business. *Program II* emphasizes various areas of applied mathematics which are frequently used in physical and engineering sciences. It could lead to graduate study in applied mathematics, an engineering career, or to a career in industry as an applied mathematician. Majors in mathematics for teaching should consult

the section Mathematics (MAE) on page 90 for mathematics requirements.

II. Mathematics Related Courses (15-20 cr. hrs.)

Majors, except for majors in mathematics for teaching, must take two of the following sequences, one of which must be in the College of Natural Sciences.

1. BSC 2010C and either BOT 2010C or ZOO 2010C
2. CHM 2045, CHM 2045L, CHM 2046, CHM 2046L, or CHM 2055C, CHM 2056C
3. GLY 2016, GLY 2100
4. ECO 2023, ECO 2013 and one of ECO 3101 or ECO 3203
5. EGN 3373, EGN 3374, EGN 3375
6. ENG 3343 and one of EMC 3103 or EMC 3117
7. EGN 3313, EGN 3321, EGN 3331
8. PHY 3040, PHY 3040L, PHY 3041, PHY 3041L
9. PSY 2012, PSY 3013, PSY 3213

Majors will not receive credit toward graduation for the following courses:

AST 3033	GEB 3121
ECO 4402	PHY 3020
GEB 2111	STA 3122

Majors wishing to take a course in statistics should take STA 4321.

III. General Distribution Courses (40 cr. hrs. *excluding waivers*)

Majors must satisfy the General Distribution requirements of the College of Natural Sciences, which must include (or show competence in) one of the following sequences:

FRE 1100, FRE 1101
GER 1100, GER 1101
RUS 1100, RUS 1101

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 Natural Sciences (see page 120). The following is a suggested course program for the first two academic years:

Semester I	Freshman Year	Semester II
MAC 1104		MAC 3411
	Sophomore Year	
MAC 3412		MAC 3413
MHF 3102		MAS 3103

Students with a strong background in high school mathematics may omit MAC 1104. Students with a strong background in algebra, but who are deficient in trigonometry, should take MAC 1114 instead of MAC 1104.

Teacher Education Programs:

For information concerning the degree programs for secondary school teachers and junior college teachers, see page 86 and 90 of this Catalog.

Mathematics Minor

Although open to all students, the minor in mathematics is designed particularly for student 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)
- MAC 3411-3413 (12) Calculus I-III or equivalent
- MHF 3102 (3) Set Theory
- MAS 3103 (3) Linear Algebra
- COP 3215 (3) Introduction to Computer Programming with Mathematics Application (or 3 hours of approved programming in BASIC, FORTRAN, or PL I)
- MAA 4211 (4) Advanced Calculus I
- MAA 4212 (4) Advanced Calculus II

In addition, one sequence from the following:

1. BSC 2010 C and either BOT 2010C or ZOO 2010C
2. CHM 2045, 2045L, 2046L, or CHM 2055, 2056C
3. GLY 2016, 2100
4. ECO 2023, 2013, and one of ECO 3101 or 3203
5. EGN 3373, 3374, 3375
6. ENG 3343 and one of EMC 3103 or EMC 3117
7. EGN 3313, 3321, 3331

8. PHY 3040, 3040L, 3041, 3041L
9. PSY 2012, 3013, 3213

Requirements for the M.A. Degree:

General requirements for graduate work are given on page 48.

A thesis is optional. The thesis program requires a minimum of 30 credits of course work, of which the thesis may carry two to six credits. The non-thesis program requires 30 credits of course work. In either case 16 hours of the course work must be taken in courses numbered 6000 or above and the program must total at least 30 credits.

The course of study is flexible and interdisciplinary work is encouraged. Some of the areas of specialization are: algebra, analysis, applied mathematics, computer science, statistics and topology.

Each candidate for the M.A. degree is required to pass a written examination in any three of the following nine subjects listed below in five categories:

1. Algebra (MAS 5146, MAS 5311, MAS 5312)
2. Topology (MTG 5316, MTG 5317)
3. Real Analysis (MAA 5306, MAA 5307)
Complex Analysis (MAA 5402, MAA 5403; or MAA 5405, MAA 5403)
4. Probability (STA 5446, STA 5447)
Mathematical Statistics (STA 5326)
Applied Statistics (STA 5166, STA 5167)
5. Differential Equations (MAP 5407, MAP 5317; or MAP 5316, MAP 5317)
Applied Mathematics (MAP 5345, MAP 5407)

Each examination will cover the prescribed contents of the courses listed above.

A reading knowledge of either French, German or Russian is required. Computer Science may be substituted for the language requirements.

For specific program requirements, the student should consult the departmental chairperson.

Requirements for the Ph.D. Degree

In addition to the general University requirements for the Ph.D. degree, on page 53, the Mathematics department requires the following:

1. Qualifying Examinations

Each doctoral student must pass four of the nine qualifying examinations that appear under the Requirements for the M.A. degree. The examinations are classified into five categories. The four examinations which the student selects must represent at least three of the five categories shown above under the M.A. requirements, and can not include both mathematical statistics and applied statistics or both applied mathematics and differential equations.

2. Foreign Language Requirement

Each student must pass an examination in two of the three languages: French, German or Russian. Computer Science may be substituted for one of the languages.

3. Course Requirements

The student's program of study must meet the course requirements for the M.A. degree. In addition the student must pass one semester of course work in each of the five categories listed above. The course can be one of the courses listed or any other course in the same general area if the substitution is approved by a majority of the Department Graduate Committee. Other course requirements will be determined by the student's Supervisory Committee.

4. Specialization Examination

This examination shall be administered by the student's Supervisory Committee after he/she has passed the qualifying examinations, the language requirements, and has completed all course requirements. The composition and scheduling of this examination shall be determined by the Supervisory Committee and may be written and/or oral.

5. For specific program requirements, the student should consult the chairperson of the Department of Mathematics.

6. The student must submit a dissertation to be approved by the Supervisory Committee.

Special accommodations may be made for students with interest in interdisciplinary areas.

■ 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 Natural 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 from the College of Natural 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 (PCB 3700 or PCB 4743C) is strongly recommended.

2. Chemistry

A minimum of 18 hours is required including one semester of Elementary Organic Chemistry (CHM 3200, CHM 3210L) and one semester of Elementary Analytical Chemistry (CHM 3120C). Biochemistry (BCH 3033) 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

One course in mathematics (above the level of MGF 2202) is required. A year of math or its equivalent is strongly recommended.

5. General Distribution Requirements

Courses satisfying the general distribution requirements of the College of Natural Sciences.

6. Courses in non-science fields to insure a broad background.

Upon successful completion of this curriculum, recommendations 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 early August or September of each year. 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 4216 MLS 4405 MLS 4605C
MLS 4215 MLS 4309 MLS 4545 MLS 4625C

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.

■ PHYSICS (PHY/PHS)

The Department of Physics offers programs leading to a Bachelor of Arts or a Bachelor of Science degree, and to a Master of Arts degree. Both thesis and non-thesis programs are available for the M.A. degree.

Qualified graduate students with appropriate backgrounds may obtain a Ph.D. in applied mathematics or engineering science. 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.

Special courses may be offered upon sufficient demand. Modern ex-

cellently equipped classrooms and laboratories provide an outstanding environment for students. Opportunities for undergraduate students to participate in research projects with professors and graduate students form an integral part of the undergraduate experience. Undergraduate students have engaged in research efforts to the extent that their work has been published in scientific journals. There is a tradition of close working relationships between professors and students.

At the graduate level, thesis research areas include theoretical and experimental plasma physics, theoretical and experimental solid state physics, experimental gaseous electronics, elementary particle theory, environmental science and medical physics. Supporting facilities include an IBM 3033N computer, a Tektronix 4501 graphics systems terminal located in the Physics Building, an excellently equipped machine shop and electronic shop, a glass blowing shop, an electron microscope, and an x-ray photoelectron spectrometer. Teaching assistantships and financial aid through the College. Work-Study Program are often available to qualified students. A supervised study hall is available where students may obtain help with their course work at their convenience throughout each week day.

Requirements for the Baccalaureate Degrees:

I. Physics Courses

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

PHY 3040 ¹	(3)	PHY 3223	(3)	PHY 4324	(3)
PHY 3040L ¹	(1)	PHY 3323C	(4)	PHY 4823L	(2)
PHY 3041 ¹	(3)	PHY 3822L	(2)	PHY 4910	(1)
PHY 3041L ¹	(1)	PHY 4224	(3)	PHY 4930	(1)

Physics Electives (7)

B.S. PHYSICS (PHS) (43 cr. hrs.)

PHY 3040 ¹	(3)	PHY 3323C	(4)	PHY 4604	(3)
PHY 3040L ¹	(1)	PHY 3424 ²	(4)	PHY 4823L	(2)
PHY 3041 ¹	(3)	PHY 3822L	(2)	PHY 4910	(1)
PHY 3041L ¹	(1)	PHY 4224	(3)	PHY 4930	(1)
PHY 3123	(3)	PHY 4324	(3)	PHS 5405 ²	(3)
PHY 3223	(3)	PHY 4526	(3)		

¹The sequence PHS 3101 (2), PHY 2050 (3), PHY 2050L (1), PHY 2051 (3), and PHY 2051L (1) may be substituted for the sequence indicated.

²Substitutions permitted subject to approval of advisor.

II. Supporting Courses in the Natural Sciences

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

CHM 2045 ³	(3)	CHM 2046 ³	(1)	MAC 3413 ⁴	(4)
CHM 2045L ³	(1)	MAC 3411 ⁴	(4)	MAP 4302	(3)
CHM 2046L ³	(3)	MAC 3412 ⁴	(4)		

³The sequence CHM 2055C (5) and CHM 2056C (5) may be substituted for the sequence indicated.

⁴The sequence MAC 3281 (3), MAC 3282 (3), and MAC 3283 (3) may be substituted for the sequence indicated.

III. General Distribution Requirements

(40 cr. hrs. excluding waivers)

The student is required to complete the General Distribution requirements of the College of Natural Sciences (see page 120). Selection of a foreign language, preferably French, German or Russian is also strongly recommended.

IV. Liberal Education Electives

The student must satisfy 16 hours of liberal education electives as described in item 3 of the graduation requirements of the College of Natural Sciences (see page 120.)

V. 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 and junior college teachers, see page 86 and 90 of this Catalog.

Requirements for the M.A. Degree:

General requirements are given on page 48. When a student is admitted to the graduate program in physics, the student will consult with the physics Graduate Adviser, who will be the student's course adviser and will also keep a close check on the programs of the student's work. After a decision has been made concerning the student's academic goals, the duties of the Graduate Adviser will be assumed by a Supervisory Committee appointed by the department chairperson. The Supervisory Committee will have the right and the responsibility to add special requirements to meet any deficiency in the student's background.

The student desiring the M.A. degree with a thesis is required to take a minimum of 30 credits, no more than six of which may be for PHY 6911, PHY 6935 and PHY 6971. Of these 30 credits, 16 must be in courses numbered 6000 or above. Required courses are:

PHS 5113	PHY 5722C	PHY 6346	PHY 6846L
PHY 5624	PHY 6246	PHY 6347	

The Supervisory Committee will administer a comprehensive examination before recommending that a degree be granted.

The student desiring the M.A. degree without a thesis is required to take a minimum of 30 credits (excluding PHY 6940), no more than two of which may be for PHY 6911 and PHY 6935. Of these 30 credits, 16 must be in courses numbered 6000 or above.

Required courses are:

PHY 5113	PHY 5624	PHY 6347	PHY 6846L
PHY 5114	PHY 6246	PHY 6536	

and a choice of any two of the following:

PHS 5405	PHS 5505	PHY 6204	PHY 5722C
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The Supervisory Committee will administer a written and an oral comprehensive examination before recommending that a degree be granted.

All graduate students are required to register for PHY 6935 in the first semester of each academic year and, in connection therewith, to attend all Physics Colloquia scheduled during the year.

College of Medicine Courtyard





NEW COLLEGE OF USF

New College, formerly a private liberal arts college, became a part of the University of South Florida in 1975, retaining its distinctive academic program and the status of an honors college within the greater University. It has, in fact, been designated a Program of Emphasis at the University of South Florida.

A small, residential, innovative, liberal arts college, New College provides an educational environment which allows students to achieve maximum academic and personal development. The curriculum is designed to promote self-direction and to supply the knowledge and skills appropriate to the Liberal Arts. New College is both traditional and contemporary in its orientation: dedicated to humane learning, but also purposefully seeking the discovery, the development, and the creation of ways to equip people for survival in a fluid society.

Students are encouraged to develop their own educational plans—using the educational contract—that will help them reach individual goals. Flexibility, individualism, and broad freedom of choice characterize the program, giving to each student the opportunity to plan a major role in the construction of his or her program.

The Academic Calendar and Residence Requirements

New College operates on a slightly different academic year than the rest of the University. The College's academic year is divided into two fifteen-week terms beginning in late August and ending in May, with a special four-week period in January designed specifically to permit students to accomplish independent studies.

New College students are considered at entrance to have the ability to begin work at the advanced level. This, in conjunction with the longer academic year, allows students to complete the degree in three and one-half years. If students wish, they may take a term off from formal study at some time during their New College career and thus spend a full four years at the college. By special petition and with summer work a student may complete the degree in three years.

Educational Contracts

The basic instrument of the New College educational program is the educational contract, a written document constructed at the beginning of a term by each student and expressing that student's plans for the ensuing term.

Each contract states the individual student's educational and per-

sonal goals for the term and possibly longer range objectives; a listing of the specific educational activities that will help accomplish these ends; and an explanation of how those specific educational activities will be evaluated at the end of the term.

Each contract is developed by the individual student as an expression of personal education and career goals, but faculty are expected to contribute substantially to help students determine the best ways to shape contracts to reach goals.

Admissions Requirements

New College welcomes applications from all qualified students without regard to nationality, creed, race, or sex. New College seeks those students who are unusually well-qualified to thrive in its intellectual and social atmosphere. The College uses a variety of indicators to help each student measure whether he or she is right for participating in this special program.

The most reliable index of student ability is past scholastic performance. About two-thirds of all New College entering students rank in the top 10 percent of their graduating classes.

Entering student Scholastic Aptitude Test (SAT) scores are generally 1200 and above. Experience of students demonstrates clearly that those whose verbal or math scores fall anywhere within the 550-800 range are capable of succeeding at New College provided they also have the personal characteristics that will allow them to cope effectively with the educational program. These individual traits, in addition to motivation, are initiative, tenacity, maturity, curiosity, concern for others and an excitement about life and learning. Applicants may submit results of the Scholastic Aptitude Test from the College Entrance Examination Board or scores received from the American College Testing Program (ACT) to help the Admissions Office of New College determine whether a student should be selected.

Because the program at New College has been deliberately designed to fulfill the needs of individual students, it follows that the College will also accept students with varied academic preparation. The College does not require that certain courses be completed to gain admittance, but does urge prospective students to complete the customary courses within a college preparatory program before enrolling at New College. Particular attention is given to students who have participated in honors courses, advanced placement, or enriched and accelerated courses and independent studies.

Advanced placement provided at some institutions is not necessary for admission to New College of USF simply because all students are con-

Concert on the grass at New College



sidered to be entering at advanced levels. Since there are no required courses, a student and a faculty adviser work together to design a program to take advantage of the student's abilities and previous academic preparation. Students are encouraged to begin studies at advanced levels if they have adequate backgrounds.

New College welcomes transfer students from other institutions. As many as one-third of each entering class are students with previous college experience. Transfer students must demonstrate through their transcripts that they can successfully handle college level work.

Application forms and literature may be obtained from the Director of Admissions, New College of USF, 5700 N. Tamiami Trail, Sarasota, Florida 33580. Prospective students should note that a supplemental application is needed for admission to New College.

Application Deadlines:

Fall Term/Term I: Application should be completed before March 1 and no later than August 1. Application for financial assistance should be received before February 1.

Spring Term/Term II: Application should be completed by December 15.

Degree Requirements

All students who are graduated from New College of USF receive a Bachelor of Arts degree. However, students may elect to concentrate in any of a number of areas within the various divisions or to elect an interdisciplinary course of study in fields of their own shaping. Requirements for completion of a course of study in fields of study at New College include satisfactory evaluations on seven educational contracts, on three independent study projects, on the senior project, and on the baccalaureate examination.

Areas of Study

New College is divided into three academic divisions—Humanities, Social Sciences, and Natural Sciences—and students may elect to study primarily in one area, to distribute their studies throughout the entire three divisions, or to create special interdisciplinary curricula which span offerings of any of the disciplines.

To aid prospective students of New College, each division has indicated broad areas of study which are available in each division. Within each area there are, of course, many subdivisions and information about these may be obtained from the New College Records Office.

Humanities	Natural Sciences	Social Sciences
Art History	Mathematics	Anthropology
Fine Arts	Biology	Economics
Music	Chemistry	History
Literature	Physics	Political Science
Languages	Experimental	Psychology
Classics	Psychology	Sociology
Philosophy	Computer Science	
Religion		

Special Programs

New College has two special programs which are available to students of New College but which fall outside of the regular divisional or interdisciplinary areas.

The **Environmental Studies Program** is an interdisciplinary and interdisciplinary program that is also expected to integrate academic and "real world" experiences in problem-solving situations. Students who elect the Environmental Studies Program may develop disciplinary knowledge and skills through courses and seminars in the College's three academic divisions and then may apply their knowledge and skills in research projects dealing with practical problems in environmentally related areas.

Each year, for three weeks in June, the **New College Music Festival** is held on campus. The Festival brings to the campus a number of nationally and internationally known musicians to teach and to perform public concerts with emphasis on chamber music. Festival concert performances are open to everyone in the college community. Students for the Festival are drawn from all parts of the country and abroad coming to the college to study each year and also to perform in student concerts which are held frequently on campus. New College students have the opportunity to audit Festival master classes and rehearsals, to compete for selection as Festival students, and also to attend student and public concerts.

Costs

Costs for attending New College of USF are the same as those for attending any part of the State University System. Costs are on a per credit-hour basis (see page 20) for University credit-hour costs. Each term's educational contract is the equivalent to sixteen credit hours while each independent study project is equivalent to four credit hours. During the first two terms students are considered for fee purposes to be on a second-year college level. For the final five terms, students are considered to be taking upper-class courses with consequent cost differentials.

Since New College offers students the opportunity to have a more individualized type of study than is available in other University programs, it is easily seen that such a program would be more expensive. To help meet this difference in cost, the New College Foundation has agreed to provide an annual subsidy to the University System to make up the difference between state funding and the actual cost of the educational program. These funds are raised by the New College Foundation and its Board of Trustees from individuals, corporations, and foundations.

Student Life

New College is essentially a residential institution with the majority of the students living either on campus or in the surrounding community. Students are challenged to accept major responsibilities for the direction of their own affairs, including their social and extracurricular activities. The Student Affairs Office is an essential part of New College and is concerned with almost all phases of student life from orientation of arriving students to commencement plans for those ready to depart. Student Affairs, through its professional staff, is responsible for counseling, housing, recreation and health services. Staff also are concerned with helping students assume responsibilities in relation to others on campus and in the outside communities.

All first-year students live on campus during their initial academic year. Upper-class students may choose College or non-College residency. Students have the option of using the food service or of making independent arrangements.

New College offers counseling for students in several different areas. New College provides for students a small health center on campus, staffed while the college is in session. Excellent specialized medical services are readily available in the community with a community hospital only minutes away from campus. Qualified clinical psychologists provide for students a broad range of psychological counseling and therapy as well as dealing with students concerned about life goals, academic and career decisions, and study skills. Professional medical and psychiatric counsel is available in the community at the student's expense.

NEW COLLEGE OF THE UNIVERSITY OF SOUTH FLORIDA 1982-83 ACADEMIC CALENDAR

Fall Semester

August 25-27, Wed.-Fri.

Orientation/Registration/Advising

August 30, Monday

Term I Begins

September 6, Monday

Labor Day Holiday

October 18-22, Mon.-Fri.

Fall Break

November 11, Thursday

Veterans Day Holiday

November 25-26, Thurs.-Fri.

Thanksgiving Holiday

December 17, Friday

Term Ends

Interterm

January 5, Wednesday

Interterm Begins

February 1, Tuesday

Interterm Ends

Spring Semester

February 2-4, Wed.-Fri.

Orientation/Registration/Advising

February 7, Monday

Term II Begins

March 28, Monday

Spring Break Begins

April 1, Friday

Spring Break Ends

May 27, Friday

Term II Ends

May 28, Saturday

Commencement



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 competency-based program that leads to a Bachelor of Science degree with a major in nursing and a graduate program that leads to a Master of Science degree with a major in nursing.

The undergraduate program provides for (a) generic students (qualified students with no previous preparation in nursing) and (b) registered nurses who are graduates of diploma or associate degree nursing programs. The program is designed so that generic students with appropriate preparation equivalent to two years of college can enroll in nursing major and complete requirements for the degree in four semesters and a summer session of full-time study on the Tampa campus. The curriculum is also designed so that registered nurses are provided with: (a) choices in learning experiences for those with special areas of interest and preparing for a shift in career goals to focus on leadership in nursing and the health care system, (b) a variety of opportunities to validate previous education and experience and to demonstrate achievement of program competencies and (c) opportunities for full-time and part-time enrollment on the Tampa campus or part-time enrollment on the regional campuses at Fort Myers, Sarasota, and St. Petersburg. Registered nurses who attend college as a full-time student may complete requirements for the degree in three semesters.

The undergraduate program is accredited by the National League for Nursing and approved by the Florida State Board of Nursing. Graduates of this program are eligible for admission to examinations leading to licensure to practice as professional nurses in the State of Florida or to apply for licensure to practice in other states. Graduates also have the educational background necessary for graduate study in nursing.

The major objective of the graduate program is the preparation of professional nurses who will assume leadership roles a) as clinical specialists in acute health care settings, b) as adult primary care nurses in ambulatory or extended care settings, or c) as teachers of nursing. At present the curriculum focuses on adult health nursing and is designed to meet the needs of full and part-time students. NLN accreditation of this program will be sought when eligibility requirements are met.

Applications from all qualified applicants are accepted without regard to age, sex, cultural, racial, religious or ethnic background.

The College of Nursing has quota programs in that limitations are set on enrollments on the basis of availability of sufficient qualified faculty, laboratory and classroom facilities, and clinical resources for nursing practice experience for students. Therefore, admissions are based upon selection processes developed by the faculty of the College of Nursing Florida residents are given priority.

Professional Nursing

The health care delivery system is rapidly changing and these changes are creating new demands on health care professionals, including nurses. Since nursing is a vital component of the health care delivery system, nursing practice has become increasingly complex in terms of knowledge and skills required for nurses to assume added responsibilities and functions.

Professional nursing practice is based on a dynamic, helping relationship which fosters client growth whether that client be an individual, a family, a group, or a community. This relationship is based on theoretical knowledge and a body of cognitive, affective, and psychomotor skills exemplified in the nursing process. Nursing practice involves problem solving and decision making based on knowledge from the humanities, natural and social and behavioral sciences. Thus, nursing builds upon a foundation of general education and basic sciences.

The undergraduate program is based on the philosophy that nurses must be self-directing professionals who assume responsibility for their own learning and their own practice. Therefore, the faculty provide opportunities for students to identify their individual learning needs, to participate in the planning of learning activities to meet those needs, and to

develop cognitive, affective, and psychomotor skills essential to professional nursing practice in a variety of primary, secondary and tertiary care settings where professional nursing services are provided: i.e., acute care hospitals, community health agencies, extended care facilities, industry, physicians' offices, military health services, and so on. Opportunities are also provided for the development of interpersonal and leadership skills needed by nurses in order to meet their responsibilities as citizens and as accountable professionals in the health field. Additionally, students can establish investigative and independent study habits that will persist throughout a lifetime of professional growth and development.

The upper division nursing major is built upon general education and science courses completed prior to admission. The nursing major is composed of supporting science courses, required nursing courses, and upper division general education and nursing electives.

The undergraduate program is developed around a conceptual framework which includes three major foci: Man, Health, and Nursing. The content and learning experiences are organized around the biophychosocial, developmental, and health care needs of individuals and families throughout the life span and include health needs of the community. The health needs and related professional nursing responsibilities and functions in meetings these needs are developed on a wellness-illness continuum and include primary, secondary and tertiary levels of care.

Competencies which graduates of this program must meet include:

1. Use the nursing process as the basis for nursing practice in assessing, analyzing, planning, implementing and evaluating nursing intervention directed towards assisting individual clients, families, groups of clients, in primary, secondary or tertiary care settings to cope with actual or perceived threats to health.
2. Participate in assessing the health needs of a given community; plan, implement and evaluate interventive nursing measures through cooperative efforts with community leaders, members of the health care team and other professionals.
3. Practice within the legal/ethical parameters of professional nursing.
4. Incorporate appropriate knowledge from the fields of natural science, medicine, nutrition, behavioral and social sciences, economics and political science, mathematics, education, the humanities, and systems in the provision of nursing services.
5. Participate in developing, implementing, guiding or managing services to clients, families or groups of clients within a nursing service setting.
6. Contribute to the development of professional nursing practice by using the nursing process as a means of gathering data for refining and expanding the knowledge base for nursing and by applying the findings of nursing and related research in working with clients.

Nursing courses include substantial theory and nursing practice in care of the physically and mentally ill, the young and the old, the acutely and chronically ill. They also provide opportunities for learning in health maintenance, preventive, and rehabilitative services and for functioning as members of nursing and health care teams in highly responsible and complex primary, secondary, and tertiary patient care settings. Learning experiences are provided in a variety of institutions and agencies involved in the delivery of nursing services.

Nationally, as well as in Florida, there is a critical need for nurses prepared at advanced levels to provide leadership in clinical nursing practice, administration of nursing services, teaching of nursing and research. The graduate program in nursing is built upon undergraduate education in nursing and provides opportunities for nurses with baccalaureate degrees in nursing to prepare for leadership in a variety of functional roles in a variety of settings where nursing services are provided for adults.

The program provides: 1) the theoretical foundations underlying advances practice, including opportunities to develop and test hypotheses related to practice; 2) opportunities to explore role theory in relation to the development and expansion of the professional nurse's leadership role; 3) introduction to research processes, exploration of researchable problems and application of research to nursing practice; 4) theory and practice in teaching of nursing in academic or inservice education programs; and 5) practicums based on individual goals.

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. Students may complete all requirements for admission to the College of Nursing through enrollment at the University of South Florida or they may complete the University's general education distribution requirements and College of Nursing admission prerequisites elsewhere and transfer to USF for the nursing major. College graduates and transfer students from other baccalaureate nursing programs are also eligible for admission to the major.

Lower division students who enroll at USF are admitted to the Division of Undergraduate Studies. They must meet the same requirements as other applicants for admission to the University and should follow the admission procedures outlined elsewhere in this Catalog.

Transfer students seeking admission to the College of Nursing must also apply for admission to the University. Applications for admission to the University may be obtained by contacting the Office of Admissions, University of South Florida, Tampa, Florida 33620. 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 will be confirmed and enrollment permitted.

At the present time, one class of generic students is admitted in the fall semester of each year. *The deadline for University application is January 4 of the year in which the student enrolls.* 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 no later than February 1.* College applications are available from: Assistant Dean for Student Personnel, College of Nursing, University of South Florida, Tampa, Florida 33612.

Registered nurse students may be admitted to the College on a more flexible basis contingent upon completion of admission prerequisites and requirements and the availability of the appropriate sequence of nursing courses on the campus to which they are seeking admission. *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 Assistant Dean for Student Personnel.

GENERAL REQUIREMENTS

Admission Requirements and Course Prerequisites

The minimum academic requirements used as a basis for evaluating eligibility of applicants for admission to the upper division major are outlined below.

A. 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 "*".

B. Specific Course Prerequisites

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. 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. *Suggested courses are also included. Courses taken at another institution will be evaluated in-*

dividually 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 Assistant Dean for Student Personnel. (813/974-2191)

1. Mathematics/Quantitative Methods: completion of at least one course in mathematics *and* one course in statistics. CLEP subject exams are acceptable.
 - a) *Mathematics*—one course in college level algebra must be completed with a grade of "C" or better.
 - 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*—a 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 2122, 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: Anatomy, microbiology and at least two of the other courses must be completed prior to enrollment in the nursing major with a grade of "C" or better in each course. The remaining course *must be completed during the first semester* of the nursing major.
 - a) *Microbiology*—one course. CLEP is *not* acceptable.
APB 3110 or MCB 3010C.
 - b) *Anatomy and Physiology*—one course. A combined course in anatomy and physiology which is equivalent to PCB 3700 is acceptable or individual courses.
 - c) *Nutrition*—one course. College of Nursing Challenge Examination or University of Florida correspondence course are acceptable.
HUN 3210
 - 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 supporting science courses is not offered every semester, therefore, the student should plan their enrollment schedule with care.*

C. CLEP Examinations

College Level Examination Program (CLEP) general and subject examinations may be taken in several areas. 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 prerequisite 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.

D. ACT/PEP and College of Nursing Examinations

Successful completion of the following examinations(s) can be used to fulfill course requirements as designated below:

- 1) College of Nursing—Nutrition Challenge Examination: 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 Dean's Office, College of Nursing, University of South Florida.
- 2) Registered nurses who are graduates of diploma programs may receive 20 semester general elective lower division credits through successful completion of the ACT/PEP examinations in nursing. These credits do *not* apply toward meeting the University requirement of 40 upper division credits or toward meeting the requirements of the upper division 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 program offered by the College of Nursing. Additional information about the CLEP and 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 20 semester general elective lower division credits for their previous nursing education.
- 4) Both generic 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.

E. Other Requirements

In order to be considered for admission to the college, the applicant must:

- 1) have submitted application to USF by the appropriate deadline.
- 2) have submitted application and all supporting materials, including transcripts, to the College of Nursing by the appropriate deadline.
- 3) have a minimum grade point ratio of 2.5 with a grade of "C" or better in each prerequisite course.
- 4) be able to complete prior to enrollment in the major all those general education and specific prerequisites required for admission to the major.
- 5) have completed all prerequisites with *not* more than two (2) repeated courses and not more than one (1) repeat of any given prerequisite course.
- 6) have current licensure in Florida 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.

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 prerequisites (physical, biological, social and political), upper division 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 division level work (courses numbered 3000 or above).

Nursing Courses - Generic Students

Junior Year (3 semesters)

- NUU 3500 - Nursing Core I (3)
- NUR 3612 - Nursing Process I (3)
- NUR 3612L - Nursing Intervention I (2)
- NUR 3722C - Client Assessment I (2)
- NUU 3501 - Nursing Core II (2)
- NUR 3130 - Nursing Process II (2)
- NUR 3130L - Nursing Intervention II (3)
- NUR 3321 - Nursing Process III (2)
- NUR 3321L - Nursing Intervention III (2)
- NUR 3723C - Client Assessment II (2)
- NUU 3502 - Nursing Core III (2)
- NUR 4636 - Nursing Process IV (3)
- NUR 4636L - Nursing Intervention IV (4)

Senior Year (2 semesters)

- NUU 4505 - Nursing Core IV (2)
- NUR 4651 - Nursing Process V (2)
- NUR 4651L - Nursing Intervention V (2)
- NUR 4652 - Nursing Process VI (2)
- NUR 4652L - Nursing Intervention VI (2)
- NUR 4653 - Nursing Process VII (2)
- NUR 4653L - Nursing Intervention VII (2)
- NUU 4506 - Nursing Core V (3)
- NUR 4943L - Preceptorship (6)

In addition to the requirements listed above, a minimum of 10 credits in upper division electives will be required for graduation: at least six (6) credits in upper division 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 4930, Selected Topics in Nursing, and/or NUR 4910C, Independent Study in Nursing, are currently used for this purpose).

Nursing Courses - Registered Nurse Students (3 semesters)

- NUU 3500 - Nursing Core I (3)
- NUR 3722C - Client Assessment I (2)
- NUR 3641 - Nursing Process in Primary Care (3)
- NUR 3641L - Nursing Practicum I (3)
- NUU 4504 - Intermediate Core (4)
- NUR 4654 - Nursing Process in Complex Situations (4)
- NUR 4654L - Nursing Practicum II (4)
- NUU 4506 - Nursing Core V (3)
- NUR 4943L - Preceptorship (6)

In addition to the requirements listed above, a minimum of 10 credits in upper division electives are required for graduation: at least six (6) credits in upper division 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 4930, Selected Topics in Nursing and/or NUR 4910, Independent Study in Nursing are currently used for this purpose).

Graduate Education in Nursing

The College of Nursing offers a program leading to the Master of Science degree with a major in nursing, focusing on adult health nursing. The major objective is the preparation of professional practitioners who can assume leadership roles in nursing as 1) clinical specialists in secondary or tertiary health care settings, 2) primary care practitioners in ambulatory or extended care settings or 3) as teachers of nursing.

The program comprises 1) theoretical foundations of advanced nursing practice (nursing theory, physiology, social and behavioral sciences, etc.), 2) role theory and development, 3) research (including thesis or scholarly study), 4) clinical experience in the management of patient care and theory testing and 5) practice related to the functional minor (teaching, clinical specialist, or primary care practitioner), and 6) electives in nursing or related disciplines. The program provides core requirements for all students with flexibility for student options based on individual background and needs.

Students may opt to focus on an area of clinical specialization (e.g., cardiovascular, oncology, geriatrics) depending upon availability of

qualified faculty and appropriate clinical resources for theory testing and related practice. Students electing the functional minor in teaching will be required to take courses in measurement and evaluation, curriculum and instruction, and higher education. In addition to the core courses and the clinical practicum, a teaching practicum is designed to meet the student's need, e.g., a practicum in inservice education or in clinical and classroom teaching in associate degree or baccalaureate programs.

Additional requirements for clinical specialists and primary care practitioners include a course in management of patient care and/or management electives selected from course offerings in the Department of Management in the College of Business Administration.

Admission Requirements

The maximum number of graduate credits which may be transferred into the program is six semester hours. Requests to transfer additional hours must be recommended by the Admissions Committee and approved by the Graduate Council. Graduate credits which are transferred into the major cannot be used in determining the student's grade point average for admission purposes.

Admission to the program is dependent upon favorable evaluation of the graduate faculty in relation to admission criteria. Applicants must meet the minimum requirements of the University and those outlined below. Registered nurses with a baccalaureate degree in nursing may enroll in selected courses as special (non-degree seeking) students if space is available after regularly enrolled students' needs are met. Up to 12 semester hours of work attempted on this basis may be accepted at the discretion of the faculty if the student meets admission requirements and is accepted into the program.

A new class is admitted to the program each fall semester of each year. Admission to the program is on a competitive basis and is based on the admission criteria and on availability of adequate facilities and faculty. All applicants seeking admission for the fall class must have all admission materials on file with the Office of Admissions no later than March 1, of that year.

Criteria for Admission

1. A baccalaureate degree in nursing from an NLN accredited program with an overall grade point average of 3.0.

or

A minimum score of 1000 on the verbal and quantitative portion of the G.R.E. (SUS guidelines apply. All students must present GRE scores.)

2. A score of 46 or above on the The Miller Analogy Test.
3. Current licensure as a registered nurse in the State of Florida
4. A minimum of one year's experience in clinical nursing practice.
5. Three letters of reference indicating potential for graduate study from professional nurses who can attest to the applicant's ability and professional competence.
6. A course in elementary statistics including introduction to probability and testing hypotheses. (Comparable to USF course STA 3122 in Social and Behavioral Science)
7. Ability to demonstrate competencies in physical assessment skills comparable to those required in NUR 3722C (A challenge exam is available).
8. Florida resident at time of enrollment.
9. Record of physical examination prior to enrollment.
10. Current professional liability coverage.
11. Admission to program will be dependent on availability of adequate facilities and faculty in addition to the above stated criteria.

Application Process

1. Complete and submit application forms to the Office of Admissions at USF.
2. Provide necessary transcripts of all previous college work.
3. Provide results of scores on the Graduate Record Examination and The Miller Analogy Test.
4. Attend a group advisement session at the College of Nursing.
5. Complete a personal interview with designated College of Nursing faculty.
6. Submit letters of reference as indicated under criteria for admission.

Course Requirements

*Core Courses

NUU 6510	Theory Development in Nursing	(3)
NUR 6751C	Adult Assessment	(3)
NUR 6720	Advanced Physiologic Assessment	(4)

PUP 5607	Public Policy in Health	(4)
NUU 6222	Advanced Role Development	(3)
NUR 6721	Advanced Pathophysiology	(2)
NUU 6370	Nursing Research	(3)
NUR 6507C	Adult Nursing	(5)
	Behavioral Science Elective	(2-3)
NUR 6971	Thesis: Master's, or	
NUR 6905	Independent Study	(1-6)
	Total	31-36

Adult Primary Care Nurse

NUR 6945L	Practicum in Clinical Nursing I	(4)
NUR 6946L	Practicum in Clinical Nursing II	(4)
NUR 6027	Pharmacology for Advanced Nurse Clinicians	(2)
	Management elective	(3-4)
	Open electives	

Clinical Specialist

NUR 6945L	Practicum in Clinical Nursing I	(4)
NUR 6946L	Practicum in Clinical Nursing II	(4)
NUU 6216C	Management in Clinical Nursing Practice	(2)

Recommended:

NUU 6027	Pharmacology for Advanced Nurse Clinicians	(2)
	Open Electives	

Nursing Education

NUR 6945L	Practicum in Clinical Nursing I	(4)
NUR 6947L	Practicum in Nursing Education	(4)
NUU 6230C	Curriculum & Instruction in Nursing Ed.	(2)
NUU 6171C	Nursing Ed. in Institutions of Hi.Ed.	(2)
EDF 6431	Foundations of Measurement	(3)
	Open Electives	

*Required of all students.

- 1) Requirements for Graduation - 48 Semester Hours
- 2) Selected courses in Gerontology:

NUR 6515C	Issues in Gerontology	(2)
NUR 6516C	Physiological and Psychological Aspects of Gerontological Nursing	(2)

Graduation Requirements

1. A minimum of 48 semester hours.
2. A thesis or major scholarly work is required of all candidates.
3. A minimum cumulative grade point average of B (3.0).
4. A minimum grade of C (2.0) in each course accepted toward the graduate degree.
5. A minimum grade of B (3.0) in all undergraduate courses (1000-4000 level) taken after matriculation as electives or to make up deficits. Grades for these courses are not computed in the overall academic average.
6. All incomplete grades must be removed from the student's record before graduation.
7. Degree requirements must be completed within five (5) years of matriculation, the date on which a student formally enrolls for study after having been accepted. Candidates who are unable to meet this requirement may petition to have their credentials and program reevaluated. Such candidates must expect to meet any requirement which have been added since their original matriculation.
8. Application for the degree must be filed with the University Registrar on the appropriate form signed by appropriate College of Nursing personnel. The degree candidate is responsible for obtaining and submitting the degree application form by the date specified by the University.

The College of Nursing reserves the right to alter aspects of the Master of Science Program on the basis of on-going curriculum evaluation by faculty and students.

Special Requirements

Tuition and fees for students enrolled in nursing are the same as for other students at the University of South Florida. However, there are

substantial expenses not covered by the basic tuition and fees.

Textbooks, laboratory manuals and standardized tests are essential tools for students enrolled in the nursing major. Texts in nursing are somewhat more expensive than those in general education, and it is estimated these costs run from \$100-150 per semester. Since texts are used over two year major, these costs are somewhat higher at the junior level.

Uniforms, including watch with sweep second hand, scissors, shoes, stethoscope, etc., are required after the first semester of the junior year. Uniform specifications and policies have been developed by students enrolled in the first class and costs vary depending upon personal choice. In addition, lab costs or aprons are necessary during the first semester. Graduate students must have access to physical assessment equipment including ophthalmoscope and stethoscope, etc.

Medical care insurance is required.

Professional liability insurance is highly desirable for all and required for registered nurse and graduate students.

An annual physical examination is required. The first one must be

done prior to enrollment in the nursing major.

Transportation to and from community health agencies for clinical nursing experience is also the responsibility of the student. Since public transportation in the Tampa area is not usually convenient to the hours of clinical schedules, students must have access to some other means of transportation or from car pools. Also, from time to time, field trips to an institution or agency at some distance from the campus will be required for an entire class or section of a class. In these instances, students making the trip share the costs.

Financial Aid

Policies and procedures pertaining to financial aid are the same for students in nursing as for other students. Specific information can be obtained from the Office of Financial Aid, Student Affairs, University of South Florida, Tampa, Florida 33620.





COLLEGE OF SOCIAL AND BEHAVIORAL SCIENCES

The social and behavioral sciences are concerned with human beings and their development, problems, behavior, and institutions. The study of man helps the student to understand the world of which he/she is a part, to become a more informed citizen, and to prepare for a role in contemporary society. The social and behavioral sciences provide the student with knowledge, experience, and background for future application in business and industry, government, human service professions, and graduate education.

The setting of the University in the rapidly expanding Tampa Bay metropolitan area provides exceptional opportunities for the development of urban related academic programs, research and community service. By the authorization of the Board of Regents, a Program for Emphasis in Human Services was established at USF for the enhancement of selected programs in the College of Social and Behavioral Sciences and the College of Nursing.

BACCALAUREATE LEVEL DEGREE PROGRAMS

Admission to the College

Admission to the College of Social and 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 within the college. 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 to the college. This application is available in the College Office of Advising and Student Records. Students will then be counseled by an academic adviser in his/her major field. Information about majors, departments, programs, advising, and other services of the college may be obtained from the Assistant Dean College of Social and Behavioral Sciences, University of South Florida, Tampa, Florida, 33620.

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

Honors Programs

Faculty and selected students in the college participate in the University Honors Program. In addition, the College of Social and Behavioral Sciences offers undergraduate honors programs in two fields: Political Science and Psychology. Students interested in one of these honors programs should consult the appropriate department for further information.

General Requirements for Degrees

The College of Social and Behavioral Sciences currently offers two undergraduate degrees: Bachelor of Arts and Bachelor of Social Work. Requirements for graduation (referred to on page 34 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 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.)
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, page 34. 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.

Three programs in the college—Urban Community Psychology, Gerontology, and Urban Anthropology—were approved several years ago by the Board of Regents as Programs of Distinction. Although the programs are housed respectively in the Departments of Psychology, Gerontology, and Anthropology, they utilize faculty expertise from many disciplines. Students majoring in these areas receive distinctive educational experiences in both university and community settings.

The Human Resources Institute of the College of Social and Behavioral Sciences was established to address critical issues in the broad human resources sector through a comprehensive program of research and service. The following Centers are related to the Human Resources Institute: Center for Applied Anthropology, Center for Applied Gerontology, Center for Community Development and Analysis, Center for Community Psychology, and Center for Evaluation Research.

3. 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.)
4. 80 credits outside the major.
4. 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 college work.
6. A student must complete at least 30 of the last 60 credits in academic residence at USF. The approval of the Dean of the college granting the degree must be secured for any transfer credits offered for any part of these last 60 hours. A maximum of 60 semester hours of transfer credit will be accepted for community college work except with the recommendation of the Dean and the approval of the Academic Regulations Committee.

Students are encouraged to consult 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.

Programs Leading to the Baccalaureate Degree

The College of Social and Behavioral Sciences offers a major in 13 fields as described in the following pages. In addition to the departmental majors, interdisciplinary majors are offered. (See Interdisciplinary Social Sciences, International Studies, and Social Science Education listed below). Economics offers two majors, one in the College of Social and Behavioral Sciences and the other in the College of Business Administration.

A **Bachelor of Arts Degree** is offered in the following:

Afro-American Studies (AFA)
 Anthropology (ANT)
 Criminal Justice (CCJ)
 Economics (ECN)
 Geography (GPY)
 History (HTY)
 Interdisciplinary Social Sciences (SSI)
 International Studies (INT)
 Political Science (POL)
 Psychology (PSY)
 Sociology (SOC)
 Social Science Education (SSE)*

A **Bachelor of Social Work Degree** (B.S.W.) is also offered.
 Social Work (SOK)

*Offered jointly with the College of Education.

GRADUATE LEVEL DEGREE PROGRAMS

Master's Degree Programs

Graduate level courses are now offered in most social and behavioral science areas. The Master of Arts Degree is offered in the following:

Anthropology (ANT)
Criminal Justice (CCJ)
Geography (GPY)
Gerontology (GEY)
History (HTY)
Political Science (POL)
Psychology (PSY)
Rehabilitation Counseling (REH)
Post-Baccalaureate
Rehabilitation Counseling (REF)
5-yr program
Sociology (SOC)

A Master of Public Administration Degree (M.P.A.) is also offered.

Public Administration (PAD)

A Master of Social Work (M.S.W.) is also offered.

Social Work (SOK)

In addition to the Master of Arts degree offered from the College of Social and Behavioral Sciences, joint degrees are offered with the College

of Education in Social Science Education, School Psychology, and the Junior College Teacher's Program.

The Department of Communicology in the college offers a Master of Science Degree in the following:

Audiology (AUD)
Post-Baccalaureate
Audiology (AUF)
5-year program
Aural (Re) Habilitation (ARH)
Post-Baccalaureate
Aural (Re) Habilitation (ARF)
5-year program
Speech Pathology (SPP)
Post-Baccalaureate
Speech Pathology (SPF)
5-year program

Doctor of Philosophy

The Department of Psychology offers a program leading to the degree of Doctor of Philosophy.

SPECIAL NON-DEGREE PROGRAMS

The Gerontology undergraduate program consists of a core of courses designed for interested students. These courses are GEY 3000, GEY 3100, GEY 4930. Additional information will be found in the Gerontology section of the catalog.

The OFF-CAMPUS TERM PROGRAM offers a wide variety of opportunities for self-designed, supervised educational experiences for credit. This program is presently housed administratively in the Department of Interdisciplinary Social Sciences, and the courses are listed under Off-Campus Term and Social Sciences Interdisciplinary.

The WOMEN'S STUDIES PROGRAM consists of courses designed to deal with historical, anthropological, sociological, and psychological aspects of the woman's role and of the female experience. This program is presently housed in the Department of Interdisciplinary Social Sciences, and the courses are listed under Women's Studies.

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	HUS 5505
HUS 3505	HUS 4100	HUS 5325	SOW 4332

Certificate in Interpretation For The Deaf

The College of Social and Behavioral 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 Communicology. The program is open to student in all colleges.

The certificate program consists of the following courses:

SPA 2001	(2)	SPA 4335	(2)	SPA 4930-003	(3)
SPA 4363	(4)	SPA 4930-001	(3)	SPA 4050-001	(1)
SPA 4334	(2)	SPA 4930-002	(3)	SPA 4050-004	(5)

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

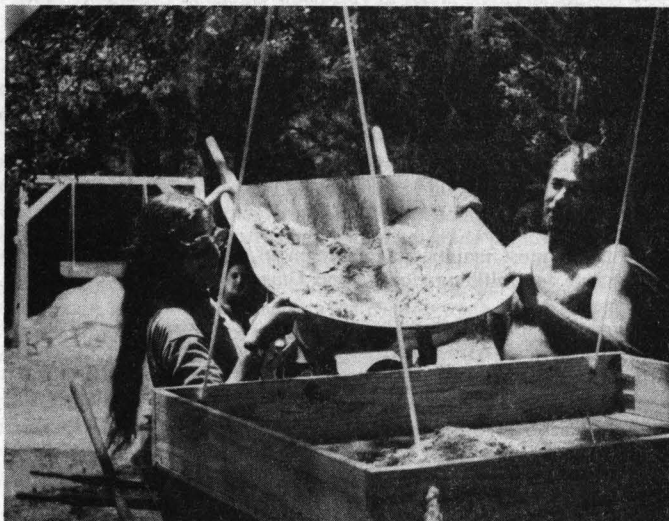
The College of Social and Behavioral Sciences offers a Certificate in Latin American Studies for students who wish to gain an intensive multidisciplinary understanding of this important area.

A minimum of 24 semester hours is required of all students seeking such a certificate. Of these, at least 16 must be planned around the following core courses:

GEA	3400	Geography of Latin America
LAH	3022	Modern Latin America
CPO	4930	Comparative Government and Politics (Latin America)
SPT	3131	Spanish American Literature in Translation; or equivalent in original Language.

The remaining 8 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 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 Studies Coordinator or the Assistant Dean. Only degree-seeking undergraduate students may earn a Certificate in Latin American Studies. The program is open to all majors in all colleges.

Academic Minor Programs

In order to help students develop some concentration in elective work taken in conjunction with their chosen major, the College of Social and

Behavioral Sciences offers minors in the following fields: African Studies, Afro-American Studies, Anthropology, 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 in the college.) There are certain restrictions that apply to students earning a minor in the College of Social and Behavioral Sciences: (1) students who major and minor in the College of Social and 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) SSI 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.

PROGRAMS AND CURRICULA

■ 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 have contributed 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 its black student clientele to achieve a more dignifying identity and fuller participations in the mainstream of American life. It attempts to help them to develop a greater awareness of themselves and their talents and to provide them with educational and research opportunities necessary for the acquisition of 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.

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 Advising, College of Social and Behavioral 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)	AFS 4910	(1)	PHM 4120	(3)
AFS 3311	(3)	ECP 4143	(3)		

Suggested Elective Courses (15 cr. hrs.)

AFA 4331	(3)	INR 4254	(3)	PUP 3133	(3)
AFS 4321	(3)	AFA 4900	(2-3)	AFA 4931	(1-3)
HUM 3420	(3)	CPO 4244	(3)	CPO 4254	(3)
CPO 4204	(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:

African and Afro-American Studies Program offers minors in African and Afro-American Studies to meet the interest of students. Each minor comprises eighteen (18) hours, exactly one-half of the upper division credits required for a major. Requirements for the minors are as follows:

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

Required Core Courses (9 hours)

AFA 2001 (3)

one of: AFH 3100 (3) or AFH 3200 (3)
one of: 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)
AFS 3311	(3)	HUM 3420	(3)		

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

Required Core Courses (9 hours)

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

Electives (9 hours) selected from:

AFA 4150	(3)	AFS 3311	(3)	PHM 4120	(3)
AFA 4331	(3)	ECP 4143	(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) INR 4254 (3)
AFH 3200 (3)

Electives (9 hours) selected from:

AFA 4150	(3)	AFS 4321	(3)	HUM 3420	(3)
AFA 4931(1-3)		CPO 4224	(3)	INR 4254	(3)
AFS 3311	(3)	CPO 4254	(3)		

■ ANTHROPOLOGY (ANT)

Anthropology aims at comprehending people as biological and social beings. It is concerned with all forms of people through time and space. One consequence of this broad-ranging view is the presence within anthropology of four branches: physical anthropology, archaeology, cultural anthropology, and linguistics. Exposure to anthropological information and the cross-cultural perspective produces heightened sensitivity in the student to the world about him/her. This helps the student to adopt an intellectual posture of disciplined skepticism with respect to any scheme which purports to define and account for regularities in human life. In response to an increasing interest on the part of students, an undergraduate focus in applied anthropology has been created to offer the Department's majors the option of including career training as part of their anthropology curriculum. The focus includes emphasis in applied anthropology coursework and a practicum course in which the student applies anthropological method and theory in off-campus settings.

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 primary objective of the graduate program is to provide both basic education and specialized training in several specific fields of applied anthropology (medical and urban anthropology, public archaeology), which will enable the graduate to render valuable and substantive service at local, state, national and international levels in a context of non-academic, non-teaching employment. Graduates will be capable of assuming vital positions in the various agencies and institutions charged with understanding and acting on the complex problems which beset our society.

The Center for Applied Anthropology is one of five centers in the Human Resources Institute, College of Social and Behavioral 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 36 credit hours including 33 credit hours in the field and the course Social Science Statistics (STA 3122) or its equivalent. 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 elective coursework, 9 hours of which must come from three of the following four subdivision clusters:

Cluster I (Archaeology)

ANT 4133	(3)	ANT 4172	(3)	ANT 4124	(4)
ANT 4153	(3)	ANT 4181	(4)	ANT 4158	(4)
ANT 4162	(3)	ANT 4182	(3)	ANT 4180	(4)
ANT 4163	(3)				

Cluster II (Physical Anthropology)

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

Cluster III (Anthropological Linguistics)

ANT 4620	(3)	ANT 4750	(3)		
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Cluster IV (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 4723	(3)
ANT 4312	(3)	ANT 4442	(3)		

The remaining 3 minimum elective hours may come from any of the department's elective offerings, including ANT 4901 (1-4), ANT 4907 (2-4), ANT 4930 (3), and those in the clusters described above. Anthropology majors are urged to become competent in the use of a foreign language. 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 adviser. Students are urged to consult with the major and minor student advisers to create the most beneficial specific set of courses.

A. 2000-level required core course (3 cr. hrs.)

ANT 2000 (3)

B. 3000-level subfield courses (3-6 cr. hrs.)

ANT 3100 (3) ANT 3511 (3)

ANT 3410 (3) ANT 3610 (3)

C. 4000-level elective courses (9-12 cr. hrs.) (as described in Clusters I, II, III, and IV above)

Requirements for the Undergraduate Focus in Applied Anthropology

This sequence is designed for Anthropology majors who wish to include career training as part of their Anthropology curriculum. The student is required to complete the major in Anthropology, making certain to take the following Focus courses:

ANT 4495 (3) ANT 4442 (3)

ANT 4705 (3) or

ANT 4462 (3)

In addition, the student must take ANT 4907 (3), the setting in which the off-campus practicum is pursued. A departmental Letter of Achieve-

ment is awarded upon graduation and successful completion of Focus requirements with a "B" average (3.0). Information regarding admission into the Focus program may be obtained from the department undergraduate adviser.

Requirements for the M.A. Degree

General requirements for graduate work are given on page 48, and should be studies carefully.

The student must complete 35 semester hours of graduate course work. All students must complete the four core seminar courses, then proceed to take minimally, one methods course, one selected topics course, and one regional problems course in one of the three tracks (medical anthropology, urban anthropology, public archaeology). In addition, each student must: complete a graduate level statistics course, for a minimum of three semester hours, and two graduate-level courses, normally taken outside the department, for a minimum of five semester hours, chosen in mutual agreement by the student and his/her adviser; successfully pass the comprehensive examination; undertake directed research (internship); and write a thesis. The student must maintain a "B" average in all course work. In addition, the program requires a "B" average for the four core seminars before the student can proceed to take the comprehensive examination.

I. Courses Required of All Students

A. Core courses

ANT 6186 (3) ANT 6588 (3)

ANT 6490 (3) ANT 6676 (3)

B. Additional Requirements

Two graduate-level courses normally taken outside the department; one graduate-level statistics course.

C.

ANT 6915 (4) ANT 6971 (2)

II. Courses in One of Three Tracks

A. Medical Anthropology Track

ANT 6463 (3) ANT 6737 (3)

ANT 6469 (3)

B. Urban Anthropology Track

ANT 6446 (3) ANT 6448 (3)

ANT 6447 (3)

C. Public Archaeology Track

ANT 6196 (3) ANT 6198 (3)

ANT 6197 (3)

COMMUNICOLOGY (AUD/AUF/ARH/ARF/SPP/SPF)

A Master of Science degree is offered through the Department of Communicology that is structured to meet the preparation requirements of the American Speech and Hearing Association for the Certificate of Clinical Competence. In addition to the core subject material each student may elect to pursue a program of specialization in the areas of Speech-Language Pathology, Audiology or Aural (Re)Habilitation.

The Speech-Language Pathology and Audiology programs are accredited by the Education and Training Board of the American Board of Examiners in Speech Pathology and Audiology. The Aural (Re)Habilitation program is currently completing the accreditation process administered by the Council on Education of the Deaf.

Undergraduate students enroll in a five-year program terminating in the Master of Science degree in Speech-Language Pathology, Audiology or Aural (Re)Habilitation. Students may apply for acceptance in the M.S. degree program upon attaining junior class standing, completion of the basic departmental core curriculum with a 3.0 grade point average, submitting cumulative Graduate Record Examination scores of 850 or greater (Verbal/Quantitative), and demonstrating competency in communication skills as determined by the chairperson or his/her delegate. Students may not apply for the baccalaureate degree. Programs are planned through the master's degree at the time of acceptance.

Applicants holding a baccalaureate degree from an accredited college or university with appropriate prerequisite coursework will be eligible for admission if the following minimal requirements are met:

1. Submission of a cumulative score of 1000 or greater for the GRE aptitude tests (Verbal/Quantitative plus a grade point average of 3.0 (A=4.0) for the last half of their undergraduate coursework.

2. Submission of three satisfactory letters of recommendation for graduate study, and
3. Demonstration of competency in communication skills as determined by the Chairperson or his/her delegate.

The Department is currently planning a baccalaureate program in manual communications and interpreting for the deaf. This program will include specialization in the areas of legal and medical interpreting and should be available for enrollment during the 1982-83 academic year.

Requirements for the M.S. Degree in Speech-Language Pathology— Post-Baccalaureate (SPP)

General requirements for graduate work are already delineated by the University's Graduate School. A minimum of 30 credits is required as well as completion of sufficient coursework and practicum to meet the American Speech, Language and Hearing Association's requirement for clinical certification in speech-language pathology. The attainment of clinical competency as determined by a minimum GPA of 3.0 in Graduate Practicum and the approval of a majority of the academic staff of the Department of Communicology is also required for graduation. The student with an existing bachelor's degree and appropriate prerequisites may plan his/her degree program from among the following courses with approval of the department chairperson or his/her delegate:

SPA 4250	(3)	SPA 5550	(4)	SPA 6410	(3)
SPA 4255	(3)	SPA 5552	(4)	SPA 6423	(4)
SPA 4333	(2)	SPA 5557	(1-8)	SPA 6505	(1-8)
SPA 4336	(2)	SPA 5600	(3)	SPA 6553	(3)
SPA 5339	(1)	SPA 6160	(3)	SPA 6825	(3)
SPA 5002	(4)	SPA 6231	(3)	SPA 6906	(var.)
SPA 5201	(3)	SPA 6245	(3)	SPA 6930	(3)
SPA 5210	(3)	SPA 6322	(4)	SPA 6910	(var.)
SPA 5222	(3)	SPA 6332	(4)	or	
SPA 5303	(4)	SPA 6335	(2)	SPA 6971	(var.)
SPA 5402	(3)	SPA 6400	(3)		

Requirements For the Combined Undergraduate/Graduate M.S. Degree in Speech-Language Pathology (SPF)

A minimum total of 150 credits is required for the combined undergraduate/graduate M.S. program. In addition to the General Distribution requirements the following courses will be required for all programs:

LIN 3010	(3)	SPA 4333	(1)	SPA 5552	(4)
LIN 4710	(3)	SPA 4336	(2)	SPA 5557	(1-8)
SPA 3020	(4)	SPA 5339	(1)	SPA 5600	(3)
SPA 3080	(4)	SPA 5002	(4)	SPA 6410	(3)
SPA 3101	(4)	SPA 5201	(3)	SPA 6505	(1-8)
SPA 3110	(4)	SPA 5210	(3)	SPA 6906	(var.)
SPA 3117	(4)	SPA 5222	(3)	SPA 6930	(3)
SPA 4050	(1-8)	SPA 5303	(4)	SPA 6910	(3)
SPA 4250	(3)	SPA 5402	(3)	or	
SPA 4255	(3)	SPA 5550	(4)	SPA 6971	(var.)

In addition, sufficient and appropriate coursework (approved by the Chairperson or his/her delegate) will be included to meet the preparation requirements of the American Speech-Language and Hearing Association for the Certificate of Clinical Competence. The attainment of clinical competence as determined by a minimum GPA of 3.0 in Graduate Practicum and the approval of a majority of the academic staff of the Department of Communicology is also required by graduation.



Requirements for the M.S. Degree in Audiology—Post Baccalaureate (AUD)

General requirements for graduate work are already delineated by the University's Graduate School. A minimum of 30 credits is required as well as sufficient coursework and practicum to meet the American Speech-Language and Hearing Association's requirement for clinical certification in Audiology. The attainment of clinical competence as determined by a minimum GPA of 3.0 in Graduate Practicum and the approval of a majority of the academic staff of the Department of Communicology is also required for graduation. The student with an existing bachelor's degree and appropriate prerequisites may plan a program from among the following courses with approval of the department chairperson or his/her delegate.

SPA 4250	(3)	SPA 5337	(4)	SPA 6354	(3)
SPA 4255	(3)	SPA 5338	(4)	SPA 6423	(4)
SPA 4333	(2)	SPA 4339	(1)	SPA 6505	(1-8)
SPA 4336	(2)	SPA 5402	(3)	SPA 6825	(3)
SPA 4363	(4)	SPA 5557	(1-8)	SPA 6906	(var.)
SPA 5002	(4)	SPA 6305	(3)	SPA 6930	(3)
SPA 5132	(4)	SPA 6322	(4)	SPA 6910	(var.)
SPA 5303	(4)	SPA 6322	(4)	or	
SPA 5312	(4)	SPA 6345	(3)	SPA 6971	(var.)

Requirements for the Combined Undergraduate/ Graduate M.S. Degree in Audiology (AUF)

A minimum of 150 credits is required for the combined program. In addition to the General Distribution requirements the following courses will be required for all programs:

LIN 3010	(3)	SPA 4363	(4)	SPA 6345	(3)
LIN 4710	(3)	SPA 5132	(4)	SPA 6354	(3)
SPA 3020	(4)	SPA 5303	(4)	SPA 6505	(1-8)
SPA 3080	(4)	SPA 5312	(4)	SPA 6825	(3)
SPA 3101	(4)	SPA 5337	(4)	SPA 6906	(var.)
SPA 3117	(4)	SPA 5339	(1)	SPA 6910	(var.)
SPA 4050	(1-8)	SPA 5402	(3)	or	
SPA 4333	(2)	SPA 6305	(3)	SPA 6971	(var.)
SPA 4336	(2)	SPA 6322	(4)		

In addition, sufficient and appropriate coursework (approved by the department chairperson or his/her delegate) must be included to meet the preparation requirements of the American Speech-Language and Hearing Association for the Certificate of Clinical Competence in Audiology. The attainment of clinical competence as determined by a minimum GPA of 3.0 in Graduate Practicum and the approval of a majority of the academic staff of the Department of Communicology is also required for graduation.

Requirements for the M.S. Degree in Aural (Re)Habilitation—Post Baccalaureate (ARH)

General requirements for graduate work are already delineated by the University's Graduate School. A minimum of 30 credits is required as well as sufficient coursework, practicum and internship to meet the Florida State Department of Education certification requirements for specialization with the hearing impaired. The attainment of clinical competence as determined by a minimum GPA of 3.0 in Graduate Practicum and the approval of a majority of the academic staff of the Department of Communicology is also required for graduation. Students may plan programs with emphasis in the areas of preschool, school age, multiply handicapped, and adult hearing impaired. All teachers of the deaf programs will be planned from among courses offered by the appropriate teacher preparation areas within the College of Education as well as from the following:

SPA 4333	(2)	SPA 5339	(1)	SPA 6423	(4)
SPA 4336	(2)	SPA 5402	(3)	SPA 6505	(1-8)
SPA 4363	(4)	SPA 5557	(1-8)	SPA 6825	(3)
SPA 4930	(3)	SPA 6305	(3)	SPA 6906	(var.)
SPA 5002	(4)	SPA 6322	(4)	SPA 6930	(3)
SPA 5201	(3)	SPA 6332	(4)	SPA 6910	(var.)
SPA 5303	(4)	SPA 6345	(3)	or	
SPA 5337	(4)	SPA 6354	(3)	SPA 6971	(var.)
SPA 5338	(4)				

Requirements for the Combined Undergraduate/Graduate M.S. Degree in Aural (Re)Habilitation (ARF)

A minimum of 150 credits is required for the combined programs as

well as sufficient coursework, practicum and internship to meet the Florida State Department of Education certification requirements for specialization with the hearing impaired. The attainment of clinical competence as determined by a minimum of GPA of 3.0 in Graduate Practicum and the approval of a majority of the academic staff of the Department of Communicology is also required for graduation. Students may plan programs with emphasis in the areas of preschool, school age, multiply handicapped, and adult hearing impaired. In addition to the General Distribution requirements all teachers of the deaf programs will be planned to include coursework from the appropriate teacher preparation areas within the College of Education as well as from the following:

LIN 3010	(3)	SPA 4363	(4)	SPA 6345	(3)
LIN 4710	(3)	SPA 4930	(3)	SPA 6423	(4)
SPA 2001	(2)	SPA 5303	(4)	SPA 6505	(1-8)
SPA 3020	(4)	SPA 5337	(4)	SPA 6825	(3)
SPA 3080	(4)	SPA 5338	(4)	SPA 6906	(var.)
SPA 3101	(4)	SPA 5339	(1)	SPA 6930	(3)
SPA 3117	(4)	SPA 5557	(1-8)	SPA 6910	(var.)
SPA 4050	(1-8)	SPA 6305	(3)	or	
SPA 4333	(2)	SPA 6332	(4)	SPA 6971	(var.)
SPA 4336	(2)				

Requirements for the Minor in Manual Communications

A Minor in Manual Communications is available to undergraduate students interested in attaining an understanding of the communication problems associated with deafness and developing competency in receptive and expressive manual language skills.

The minor consists of the following courses which must be taken in the sequence indicated:

SPA 2001	(2)	SPA 4336	(2)	SPA 4050	(3)
SPA 4363	(4)	SPA 4339	(1)	SPA 4930	(3)
SPA 4333	(1)				

Departmental approval for the minor must be obtained prior to enrolling in any of the required 4000-level courses.

■ CRIMINAL JUSTICE (CCJ)

The major in criminal justice provides students with an indepth 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 graduate program in criminal justice 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 B.A. Degree:

A minimum of 39 semester hours is required of all undergraduate majors* in Criminal Justice including the following courses of their equivalents:

CCJ 3020	(3)	CCJ 3701	(3)	CCJ 4360	(3)
CCJ 3280	(3)	CCJ 4110	(3)	CCJ 4934	(3)
CCJ 3620	(3)	CCJ 4501	(3)	CCJ 4940	(9)

In addition to the above, a minimum of 6 hours in Criminal Justice 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 Criminal Justice 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 Criminal Justice 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

Criminal Justice major. This applies only to students whose first USF CCJ course was taken during Fall Quarter (I) 1975 or thereafter.

**In-service students are required to take only 3 hours of CCJ 4940, thus reducing their major course credits to 33 semester hours.*

Requirements for the M.A. Degree:

University requirements for graduate study are given on page 48. Additionally, each graduate applicant should submit three letters of recommendation, a letter of intent to the Department of Criminal Justice, and show successful completion of an acceptable undergraduate social science statistics course (e.g., CCJ 4700) or equivalent.

NOTE: Individuals who wish to take courses in the graduate program as "Special Students" should contact the Director of Graduate Studies for the department prior to their first class appearance. Such students will in general be prohibited from enrolling in CCJ 6910.

Further information may be obtained by contacting the Director of Graduate Studies of the Department of Criminal Justice.

Requirements for graduation for all M.A. candidates will consist of:

1. 38 semester hours of CCJ work (or approved equivalents) which include:

CCJ 6285	(3)	CCJ 6705	(3)**
CCJ 6305	(3)	CCJ 6709	(3)
CCJ 6402	(3)	CCJ 6920	(2)**
CCJ 6605	(3)	CCJ 6935	(3)

2. Completion of a thesis: CCJ 6971
3. Completion of an oral defense of the thesis (occurs after the final draft of the thesis has been accepted by the student's committee).

All course work counted toward the degree must have the prior approval of the student's major professor and the Director of Graduate Studies of the Criminal Justice program.

***Should be taken first semester in the program.*

■ ECONOMICS (ECN)

Requirements for B.A. Degree

Economics is one of the vital disciplines investigating the complex problems and relationships in modern society. Indeed the very breadth of economics has led to major areas within the discipline, including labor economics, international economics, urban and regional economics, monetary economics, public finance, industrial organization, comparative economic systems and the like. Students are given a sound grounding in economic theory and economic statistics to facilitate the investigation of the problems of human behavior, decision-making and organizational effectiveness in these areas.

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 2013	(3)	ECO 4303	(3)
ECO 2023	(3)	GEB 2111	(3)
ECO 3101	(3)	GEB 3121	(3)
ECO 3202	(3)		

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

In addition to this core, students are encouraged to select 3000-level courses in several of the applied areas during their junior year. The remaining economics electives must be selected from those upper level courses that provide the type of program that best suits the students' interests and objectives. Additional flexibility in pursuing these interests is provided by the ECO 4905 and ECO 4914 courses. However, not more than 6 hours of credit may be earned in ECO 4905 and ECO 4914.

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

A student may minor in economics by completing 18 or more credit hours in economics as follows:

(a) A minor must include these four courses in basic economics:

ECO 2023	Economic Principles I: Microeconomics	(3)
ECO 2013	Economic Principles II: Macroeconomics	(3)
ECO 3101	Intermediate Price Theory	(3)
ECO 3202	Intermediate Income & Monetary Analysis	(3)

(b) In addition, a minor must include two or more upper level courses taught in the Economics Department (excluding the variable credit courses ECO 4905, 4914), bringing the total credit hours in economics to a minimum of 18. GEB 3121, Business and Economic Statistics II, or its equivalent, is acceptable for credit in a minor.

(c) 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.

(d) 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.

(e) At least 12 of the required 18 credits must be taken in residence at USF.

Students interested in majoring or minoring in economics are encouraged to contact the departmental adviser for more information about these programs.

■ GEOGRAPHY (GPY)

Requirements for the B.A. Degree:

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 man. 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 specialist, map and aerial photographic analysts, and resource managers.

A major in geography consists of 36 credit hours as follows:

Required core courses (12 credit hours).

GEO 3013	(4)	GEO 3370	(4)	GEO 4100	(4)
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One of the following (4 credit hours).

GEO 4280C	(4)	MET 4002	(4)	MET 4010C	(4)
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Two of the following (8 credit hours).

GEO 3402	(4)	GEO 4440	(4)	GEO 4470	(4)
GEO 4372	(4)	GEO 4460	(4)	GEO 4500	(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		

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:

GEO 3000	(4)	GEO 3013	(4)	GEO 3370	(4)
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(4) One upper level elective (GEA, GEO, MET, or URP 3000-5000 level)

Requirements for the M.A. Degree

General requirements for graduate work are given on page 48.

All students must complete 30 credit hours in graduate geography courses, following one of the two plans outlined below. A written and oral comprehensive examination covering the general field of geography is required before graduation, and the student must demonstrate his abil-

ity to translate into English the pertinent scientific literature from one modern foreign language. Foreign students, whose mother tongue is not English, may use English as their foreign language. A computer language (such as Fortran) may be used to meet the language requirements.

Thesis Program: The 30 credit hours in geography must include:

GEA 6195	GEO 6119	GEO 6428
GEO 5065	GEO 6209C	GEO 6971

Up to six credits outside the department may be elected with the approval of the student's committee and major professor. An oral defense of thesis is required.

Non-Thesis Program: The 30 credit hours in geography must include:

GEA 6195	GEO 6209C	GEO 6945
GEO 5065	GEO 6428	GEO 6947
GEO 6119		

The remaining credit hours must be approved by the student's committee and major professor, and may include up to six credits outside the department.

■ GERONTOLOGY (GEY)

Undergraduate Program

The Department of Gerontology provides a core of four courses at the undergraduate level. These courses range from Introduction to Gerontology to Seminar in Selected Topics in Social Gerontology, and are designed as electives for students from a variety of areas, particularly the human service areas. More generally, the objective of the sequence of undergraduate courses is to provide students with a broad educational experience in gerontology.

B.A. Degree in Gerontology (Approval Pending)

Providing it is approved by the Board of Regents, a Bachelor of Arts in Gerontology degree will be offered beginning in the Fall Semester of 1983. The goal of the degree program will be to provide not only a broad educational experience in the many aspects of human aging but also classroom and field training in one of the three specialized career tracks which may be selected by the student: retirement home administration, senior center administration, or retirement housing management.

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 courses are closely related to the Urban Community Psychology and Gerontology Program of Distinction and will be taught by qualified faculty from the various disciplines within the College of Social and Behavioral Sciences. 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 5505
HUS 3502	HUS 4700	
HUS 4020	HUS 5325	

Center for Applied Gerontology

The Center for Applied Gerontology is one of five specialized centers in the Human Resources Institute within the College of Social and Behavioral Sciences. The activities of the Center include research on aging, program evaluation, short-term training of agency personnel and other activities intended to complement the educational program in gerontology.

Graduate Program

The Department of Gerontology offers the degree of Master of Arts in Gerontology with either a thesis or non-thesis option. The primary objective of the non-thesis Master's Program is to prepare graduates for leadership positions in the planning, development, management, delivery, and evaluation of community services for older persons. The thesis option is primarily for those students who, in addition to acquiring the kinds of knowledge and skills noted above, wish to pursue a doctoral degree at this or another University or who are interested in a research career in aging.

Thus, students who wish to work directly or indirectly with older persons upon graduation and who do not anticipate seeking doctoral level training or a research career in aging should consider the non-thesis option while those who are planning additional graduate work or have a strong interest in research should consider the thesis option.

Requirements for the M.A. Degree in Gerontology

The M.A. degree requires four semesters of full-time study—or the part-time equivalent thereof—including one semester of supervised field placement for those choosing the non-thesis option or the completion of a thesis for those electing the thesis option. The courses in the degree program were developed specifically to meet the objectives of the program and are offered under the Department of Gerontology. The M.A. degree in Gerontology requires a minimum of 38 semester hours in approved courses. Prior to beginning the program, each student will confer with a departmental advisor who will thoroughly review the student's academic background, experience, and career interests and develop an approved, individual curriculum from the available gerontology courses. Required courses for the M.A. degree include:

GEY 5620 (6)	GEY 6325 (3)	GEY 6450 (3)
GEY 5630 (3)	GEY 6350 (3)	GEY 6455 (3)

(Required for thesis option, only.)

GEY 6500 (3)	GEY 6930 (1)	GEY 6932 (1)
GEY 6600 (3)	GEY 6931 (1)	GEY 6940 (6)

Non-thesis majors are also required to take a minimum of 8 hours and thesis majors a minimum of 5 hours from the following:

GEY 5642 (3)	GEY 6455 (3)	GEY 6933 (1)
GEY 5645 (3)	GEY 6910 (1-4)	GEY 6934 (2)

There are no language requirements. However, following completion of the necessary course work, there will be a comprehensive examination designed to test the student's knowledge of and ability to integrate key concepts and information in the field of gerontology. This examination must be taken and passed before the student begins the required field placement or the required thesis. In addition to the comprehensive examination, which must be passed by all students in the M.A. program, students electing the thesis option must successfully pass an oral examination of the thesis.

Admission Requirements: To be eligible for admission to the M.A. Program, the applicant must:

1. hold a baccalaureate degree or its equivalent from an accredited college or university.
2. have a minimum score of 1000 on the Graduate Record Examination (total of quantitative and verbal aptitude scores) plus a minimum grade point average of 2.5 (A=4.0) on the last half of courses taken for the bachelor's degree or have a minimum score of 900 on the Graduate Record Examination plus a minimum grade point average of 3.0. Students electing the thesis option may be required to have higher scores on the Graduate Record Examination and/or a higher grade point average on the last half of the courses taken for the bachelor's degree.
3. An M.A. in a related field from an accredited university may be accepted in lieu of undergraduate grade point requirements and Graduate Record Examination score requirements.
4. Applicants with significant experience and demonstrated commitment to the field of aging may be approved for admission in lieu of one or more of the above listed requirements.

Special consideration may be given to mature students (25 years of age or older) who demonstrate commitment to or experience in the field of aging.

In addition to the University Graduate Studies application, a program application is required and should be obtained from the Department of Gerontology.

ment of History must complement the student's program in history.

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: Afro-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 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 level 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.

Requirements for the M.A. Degree

The Department of History offers both a thesis and non-thesis Master of Arts degree organized around the following fields:

Field I:	American History to 1877
Field II:	American History Since 1877
Field III:	Ancient/Medieval
Field IV:	Early Modern Europe to 1789
Field V:	Modern Europe Since 1789
Field VI:	Latin America

The thesis degree program emphasizes preparation for further graduate study. The non-thesis degree program is designed to meet the needs of those students seeking a terminal degree at the Masters level.

In addition to the general requirements of the University, a candidate is required to complete a total of 36 hours in the following distribution: a 4 hour core course; 16 hours in a major field in history; and 8 hours in a minor field. Additionally, students in the thesis degree program will be expected to complete the remaining 8 hours in thesis credits. Non-thesis degree students must complete the remaining hours of their program in 6000 level regularly scheduled courses.

Of the 36 hours required for the Master of Arts, at least 20 must be in formal, regularly scheduled course work. A minimum of 16 must be at the 6000 level. Subject to the satisfaction of above requirements, courses at the 5000 level are acceptable as part of a planned degree program. In special circumstances major advisers may approve up to 8 hours at the 4000 level with the definite understanding that additional and superior work will be required of the graduate student. The core course, HIS 6112, "Analysis of Historical Knowledge," is required of all M.A. students.

A reading proficiency in one foreign language must be demonstrated by students in the thesis degree program. A satisfactory preparation in the core course program, two fields, and the completion of a comprehensive examination are required of all M.A. students for graduation.

Upon admission into the graduate program, the M.A. students will select an adviser in their anticipated major field of study. Students will arrange their programs and schedules of appropriate courses with their major adviser. Additionally, the student in consultation with the adviser solicits two other members to serve on a guidance committee.

■ 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. HIS 4152 and 4936 constitute the upper level requirements for the degree. With the prior written consent of the student's adviser, majors may take up to six (6) hours of course work offered by other departments and apply these hours toward meeting the course requirements in history. The course work undertaken outside the Depart-

■ INTERDISCIPLINARY SOCIAL SCIENCES (SSI/INT)

The Department of Interdisciplinary Social Sciences offers two academic majors; the College major (Interdisciplinary Social Sciences), which is administered by the Assistant Dean in the college, and the major in International Studies which is administered by the department. It offers a non-degree program and a minor in Women's Studies, a minor in International Studies, and a series of interdisciplinary social science core courses; it also administers the Off-Campus Term Program. Requirements for the Interdisciplinary Social Science major, the Interna-

tional Studies' major and minor, and the minor in women's Studies are described below.

The College Major (SSI) Requirements for the B.A. Degree

The college major offers students whose educational and vocational interests and objectives cross disciplinary lines an opportunity to undertake a program of study individually designed to serve those interests and objectives. That program of study must include 42 credits in courses offered in the college including STA 3122, Social Science Statistics and a minimum of six credits in Interdisciplinary Social Science courses. At least 28 of the 42 hours required must be upper level.

Within these parameters each student's program of study is to be evolved in consultation with and must be formally approved by the major adviser, who is the Assistant Dean. The program of study must include an area of concentration of at least 15 credits in one discipline; it will normally be expected to include a second area of concentration with either a disciplinary or multidisciplinary focus. The choice of areas of concentration and of courses within them is to be directly related to the educational goals of the student such as to provide an educational experience of excellent quality.

Students choosing the SSI major may opt for a contract emphasizing one of the following interdisciplinary fields: Human Services, Urban Studies, Women's Studies or Women's Studies and Human Services. The SSI major with emphasis in Human Services is designed around 2 core areas, one either in Anthropology, Psychology, or Sociology, and a second in Gerontology or Human Services courses. The Urban Studies emphasis is designed around the core areas of Geography and Political Science, and a cluster of urban-related courses in other social sciences. Students opting for either emphasis focusing around Women's Studies should consult with the Director of the Women's Studies Program in selecting courses to fulfill the contract, subject to final approval of the Assistant Dean. Each of these interdisciplinary options could lead to graduate study in such fields as Gerontology, Rehabilitation Counseling, Applied Anthropology, and Urban and Regional Planning.

International Studies (INT) Requirements for the B.A. Degree:

The major in International Studies is designed to enable students to undertake programs of study which will 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 culture.

The program of study is developed by each student in consultation with the major adviser so as best to serve the individual's educational goals. The program is to include not less than 34 semester hours.

At least 18 of these hours (six courses) must be in the International Studies Program offerings of the Department of Interdisciplinary Social Sciences

The six courses required are:

SSI 3221	(3)	SSI 4250	(3)
SSI 3260	(3)	SSI 4936	(3)

and 2 courses of 3 hours each chosen from upper level offerings of the department.

The additional 16 hours may be selected from course offerings of other departments, which are approved by the major adviser as having adequate international, regional or cultural content.



With the approval of the major adviser, credits earned in:

SSI 4900	(1-3)	SSI 3955	(1-6)
SSI 4910	(1-3)		

may be used to augment or substitute for the foregoing requirements.

Required Supporting Courses

One year (or equivalent proficiency) of appropriate foreign language.

Students will be provided with advice as to choices of other courses offered throughout the University which will best reinforce and complement their major program. Each student's program must be planned with the international studies adviser who is empowered to make appropriate substitutions when educationally justified.

Minor in International Studies

The minor in International Studies is basically a name given to a set of International Studies courses taken by a student that approximates one half of the upper division level credits required for a major. The minor consists of 18 credit hours made up of six courses as follows:

SSI 3221	(3)	SSI 3260	(3)
		SSI 4250	(3)

and 3 upper level courses chosen from the International Studies Program's offerings of the Department of Interdisciplinary Social Sciences.

Each student's program must be planned with the International Studies Program major adviser, who is empowered to approve appropriate substitutions when educationally justified.

Interdisciplinary Core Courses

These courses, taught from an interdisciplinary social science perspective, focus on contemporary social problems and issues. Included is Social Science Statistics which is required for majors in Interdisciplinary Social Sciences, Anthropology, Nursing, Sociology and Social Work.

Off-Campus Term

The Off-Campus Term Program, described more in detail elsewhere in this Catalog, is a University-wide, interdisciplinary program which urges students to spend part of their time in college in pursuits that are self-designed and implemented in an environment entirely off-campus and out of the classroom. OCT provides for an "education in life" for full academic credit as an alternative to the traditional methods of learning.

Women's Studies Program

The Women's Studies Program offers a variety of courses from an interdisciplinary perspective, focusing on current research about both the evolution of attitudes towards women and on the status and condition of women today. The content of the program is designed to apply to study in many disciplines. Several of its courses are crosslisted with those of other departments, and may be taken for major credit in either Women's Studies or in the joint-listed department.

B.A. in SSI With An Emphasis in Women's Studies or Women's Studies and Human Services

Within the college major, (SSI), students may emphasize Women's Studies, or Women's Studies and Human Services. Women's Studies courses focus on the most current research on women for a multidisciplinary perspective and thus, with historical attitudes and practices concerning women as well as the status and condition of women today.

The contract for an SSI major with emphasis in Women's Studies is designed to provide a well-rounded liberal arts education based on the new knowledge about women in many fields. Such training could also serve as a pre-professional degree, e.g., as background for application to law school, for graduate study in Social Work or Rehabilitation Counseling, or for study in specific disciplines in which students wish to focus their research on women.

The SSI major with emphasis on Women's Studies and Human Services is appropriate for those who wish to work in the helping professions and whose training would benefit from a close scrutiny of some of the major issues and problems faced by women today. This B.A. could serve as a pre-professional degree for students who wish to pursue graduate study in a variety of fields, e.g., Urban or Medical Anthropology, Criminal Justice, Gerontology, Public Administration, Counselor Education.

The program of study is to be developed by each student in consultation with the Director of Women's Studies in order to best serve the individual's educational aims. A B.A. in SSI with an emphasis in Women's

Studies or Women's Studies and Human Services consists of 42 credit hours, including STA 3122 and core courses in Women's Studies.

Minor in Women's Studies

A student wishing to minor in Women's Studies will be required to take five courses:

WST 2010 or WST 2011 (Introduction to Women's Studies I or II)
Two Women's Studies courses at the 3000 level.

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

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

POLITICAL SCIENCE (POL)

Requirements for the B.A. Degree

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 bases 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.

A minimum of 38 credit hours is required to satisfy the requirements of the major. Students must take the seven credit hours which make up the core curriculum, and in addition, a total of 31 credit hours in political science, of which at least 16 credit hours must be in courses at or above the 4000 level. For instructional purposes, the political science curriculum is divided into seven fields. However, there are no field requirements. Students are free to select courses from any and all fields within the curriculum.

Students transferring credit hours towards a major in political science must complete a minimum of 20 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 (7 cr. hrs.)

POS 2041	(3)	POS 3713	(4)
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Electives from the seven fields (31 cr. hrs.)

Field I Political Theory

POS 4204	(4)	POT 4054	(4)
POS 5734	(4)	POT 4064	(4)
POS 5764	(4)	POT 4204	(4)
POT 3003	(4)	POT 5626	(4)
POT 3013	(4)		

Field II Comparative Government and Politics

CPO 3002	(4)	CPO 4930	(4)
CPO 4034	(4)	CPO 5934	(4)

Field III International Relations

INR 3002	(4)	INR 4403	(4)
INR 3102	(4)	INR 4502	(4)
INR 4334	(4)	INR 5806	(4)

Field IV American National and State Governments

POS 2041	(3)	POS 3453	(4)
POS 2112	(3)	POS 4413	(4)
POS 3173	(4)	POS 4424	(4)
POS 3182	(4)	POS 5094	(4)
POS 3273	(4)		

Field V Urban Government and Politics

PAD 5807	(4)	POS 5155	(4)
POS 3142	(4)	PUP 4534	(4)
POS 3145	(4)	URP 4050	(4)
POS 4165	(4)		

Field VI Public Administration

PAD 3003	(4)	PAD 5417	(4)
PAD 4204	(4)	PAD 5612	(4)
PAD 5035	(4)	PAD 5836	(4)
PAD 5333	(4)		

Field VII Law and Politics

INR 4403	(4)	POS 4614	(4)
PAD 5605	(4)	POS 4624	(4)
POS 3285	(4)	POS 4693	(4)
POS 3493	(4)	POS 5699	(4)
POS 3691	(4)		

The following courses are not included within any of the seven fields, but may still be used as elective hours:

POS 4905	(1-4)	POS 4941	(4)
POS 4910	(1-6)	POS 4970	(4)
POS 4936	(4)		

Requirements for a Minor in Political Science

A minor in political science consists of a minimum of 18 credit hours, made up of POS 2041 (3 credit hours) and an additional 16 credit hours of courses from the seven subfields in political science: Political Theory, COMparative Government and Politics, International Relations, American national and State Governments, Urban Government and Politics, Public Administration, and Law and Politics. At least 8 credit hours must be in courses at the 4000/5000 level. No more than 4 credit hours can be taken from POS 4910, POS 4941, POS 4970, and POS 4905. A GPA of 2.0 is required. Subject to these limitations, students may take an undergraduate course offered in political science. There are no field or sequence requirements.

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 Political Science.

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 (4).

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 39 credit hours is required.

Students must take seven credit hours or required courses:

POS 2041	(3)
POS 3713	(4)

Eight additional courses in political science (32 cr. hrs.) must be taken, of which at least five must be above the 3000 level. Concentration within fields will be encouraged.

Requirements for the Pre-Law Plan in Political Science

The Department 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. The department seeks to guide majors to those courses which develop skills and provide information needed for good performance in the study of law. The department also seeks to give students 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 department'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 Political Science, 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 or Arts degree in an

area of personal choice. It is generally agreed that a good lawyer must have knowledge and understanding of the political, economic, and social context within which legal problems arise.)

International Affairs Focus in Political Science

The Department of Political Science offers a number of courses (Fields II and III) that prepare the well motivated student for graduate study in International Relations and career opportunities in private or public transnational organizations.

Basic courses in the area include:

Introduction to International Relations	(INR 3002)
Introduction to Comparative Politics	(CPO 3002)
American Foreign Policy	(INR 3102)

In addition, the Department offers the following upper-level courses:

Politics of Developing Areas	(CPO 4034)
Comparative Politics of Selected Areas	(CPO 4930)
Defense Policy	(INR 4334)
International Law	(INR 4403)
International Organizations	(INR 4502)
Issues in Comparative Politics	(CPO 5934)
Issues in International Relations	(INR 5086)

Students desiring careers in international affairs or international administration are encouraged to supplement these courses with public administration offerings in the Department of Political Science and, depending on their interests, from the courses offered in the Departments of International Studies, Management, Economics, Business Administration, and Foreign Languages.

Requirements for the M.A. Degree

The graduate program leading to the M.A. in political science is designed to offer advanced general instruction in political science. It prepares its graduates for positions of responsibility in the public and private sectors as well as in research, teaching, and study at the doctoral level.

General requirements for graduate study are given on page 48. The student must complete a minimum of 34 credit hours of graduate level courses, of which at least 16 hours must be at the 6000 level. A minimum of 20 credit hours must be taken in formal, regularly scheduled classes. Courses at the 5000 level are accepted for credit towards the degree when taken as part of a planned program, with the approval of the student's adviser and the Department of Political Science.

A minimum of 20 credit hours must be taken in political science; eight credit hours of approved electives may be taken outside the department. All graduate students must write a thesis (six credit hours) or petition for substitution with 8 hours of regular courses.

All students must pass a comprehensive examination in order to satisfy the degree requirements. This examination normally will be given following the completion of thesis. Students whose petitions for the non-thesis option have been approved will be permitted to take the examination upon successful completion of at least 32 credit hours.

Students who do not have an undergraduate major in political science or its equivalent, may be admitted to the program upon the consent of the department. Such students may be asked to take additional courses beyond the minimum requirements. Students must be registered as full-time graduate students for at least one quarter of study.

Graduate students in the M.A. program are required to take the graduate core curriculum:

POS 5734 (4) and POS 6706 (4)



For instructional purposes, the graduate curriculum in political science has been divided into seven fields:

Field I Political Theory

POS 5734	(4)	POS 6706	(4)
POS 5764	(4)	POT 5626	(4)
POS 6237	(4)	POT 6007	(4)

Field II Comparative Government and Politics

CPO 5934	(4)	CPO 6036	(4)
CPO 6007	(4)		

Field III International Relations

INR 5086	(4)	INR 6107	(4)
INR 6007	(4)		

Field IV American National and State Governments

POS 5094	(4)	POS 6415	(4)
POS 6045	(4)	POS 6427	(4)
POS 6095	(4)	POS 6455	(4)
POS 6127	(4)		

Field VI Urban Government and Politics

PAD 5807	(4)	PUP 6538	(4)
PAD 6306	(4)	URP 5430	(4)
POS 5155	(4)	URP 5431	(4)
POS 6157	(4)	URP 6056	(4)

Field VI Public Administration

PAD 5035	(4)	PAD 6105	(4)
PAD 5333	(4)	PAD 6207	(4)
PAD 5417	(4)	PAD 6228	(4)
PAD 5612	(4)	PAD 6327	(4)
PAD 5836	(4)	PUP 6007	(4)
PAD 6037	(4)	PUP 5440	(4)
PAD 6060	(4)		

Field VII Law and Politics

PAD 5605	(4)	POS 6698	(4)
POS 6007	(4)		

The following non-field courses may be used as elective hours:

POS 6909	(1-4)	POS 6942	(1-6)
POS 6919	(var.)	POS 6971	(6)
POS 6934	(4)		

More detailed instructions on specific programmatic requirements may be obtained from the Department of Political Science.

Requirements for the M.P.A. Degree

The Master of Public Administration (M.P.A.) is primarily designed to meet the education and training needs of those students who are interested in professional careers in the public sector at all levels of government. General requirements for admission to the graduate program are given on page 48. In addition, the Department of Political Science may require letters of recommendation, provisional admission and/or additional undergraduate courses to provide the student with the background necessary for graduate study in the M.P.A. program.

Students must complete a minimum of 46 credit hours of graduate level courses, of which at least 24 credit hours must be at the 6000 level. A minimum of 28 credit hours must be taken in formal, regularly-scheduled classes. Courses at the 5000 level may be accepted for credit towards the degree when taken with the consent of a student's adviser.

The plan of study for an M.P.A. student consists of the following course distribution:

- Eight credit hours of core courses:
PAD 6060 (4)
and
POS 5734 (4)
- Twenty credit hours in one of the three substantive areas:
Area I—National and State Administrative Systems:
PAD 5035 (4) PAD 6037 (4)
PAD 5333 (4) PAD 6105 (4)
PAD 5417 (4) PAD 6207 (4)
PAD 5605 (4) POS 6095 (4)
PAD 5612 (4) POS 6909 (1-4)
PAD 5807 (4) POS 6919 (var.)

PAD 5836	(4)	POS 6934	(4)
Area II—Urban Administration:			
PAD 5333	(4)	POS 6095	(4)
PAD 5417	(4)	POS 6157	(4)
PAD 5807	(4)	POS 6909	(1-4)
PAD 6105	(4)	POS 6919	(var.)
PAD 6207	(4)	POS 6934	(4)
PAD 6228	(4)	PUP 6538	(4)
PAD 6306	(4)	URP 5430	(4)
PAD 6327	(4)	URP 5431	(4)
POS 5155	(4)	URP 6056	(4)

Area III—Public Policy

PAD 5035	(4)	PAD 6037	(4)
PAD 5333	(4)	POS 6909	(1-4)
PAD 5417	(4)	POS 6919	(var.)
PAD 6037	(4)	POS 6934	(4)
PAD 6105	(4)	PUP 5440	(4)
PAD 6207	(4)	PUP 6007	(4)
PAD 6306	(4)	PUP 6538	(4)

3. A minimum of twelve credit hours of electives in political science, business administration, or other courses designated by the Department.
4. Six credit hours of Field Work: POS 6942

Students must pass a comprehensive examination in the chosen substantive area. This examination may be oral or written, upon the recommendation of the student's adviser and the consent of the department. Students may also petition the department for permission to substitute a thesis in place of the fieldwork requirement, according to procedures established by the Department.

■ PSYCHOLOGY (PSY)

The undergraduate program in Psychology offers the student a well-rounded Liberal Arts education, together with the opportunity to gain a special acquaintance with issues such as those concerning people's role in modern society, tactics of social change, personal adjustment, and the individual in the workplace. In addition, the program provides excellent background training for qualified students who wish to pursue graduate work in disciplines such as clinical, experimental, or industrial psychology, education, gerontology, counseling, women's studies, black studies, or community relations.

The graduate faculty of the Psychology Department is divided into three broad program areas: Clinical-Community, Experimental, and Industrial-Organizational. Each of these program areas offer Ph.D. level training as well as introductory instruction at the undergraduate level. Members of the graduate Clinical-Community faculty offer coursework and training in the areas of abnormal psychology, developmental psychology, behavioral modification, psychotherapy, personality, psychological assessment, and community psychology. Members of the graduate Experimental faculty provide direct extensive research experience in the areas of comparative psychology, electrophysiology, learning and conditioning, human memory, perception, and information processing. Members of the graduate Industrial-Organizational faculty offer training, and evaluation of employees, job motivation and satisfaction, small group analysis, organizational theory, human factors, organizational change, and evaluation.

Requirements for the B.A. Degree:

Majors must complete at least 34 semester hours in the field. All majors must complete:

- I. 2000/3000 Level Requirement (6 semester hours)
Successful completion of: PSY 3013 (3 semester hours) and one of the following:
INP 3101 PSY 3022 SOP 3742
PSY 2012
- II. 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
- III. 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 strongly recommended for all majors and required of students planning graduate training. Functional mathematics and biological science are recommended. Otherwise, students majoring in psychology are encouraged to complete a varied undergraduate program.

Requirements for the Minor in Psychology

A minor in Psychology consists of a minimum of 15 credit hours, comprising PSY 2012, PSY 3013, 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 compliment their work in their major. See the Psychology Department Undergraduate Advisor for suggested minor programs for students majoring in various fields.

Requirements for the M.A. Degree:

General requirements for graduate work are given on page 48.

The student must complete 30 credit hours of graduate psychology courses. All students are required to complete two of the three quantitative methods courses (PSY 6217A, 6217B, 6217C). In addition, the student must complete a minimum of five of the following ten courses (eight of these must be completed for the Ph.D.) in the pattern indicated below:

At least one course in each of the following groups:

Social	
INP 6056	SOP 6059
Biological	
EXP 6307	PSB 6056
EXP 6406	
Individual	
CLP 6166	PPE 6058
DEP 6058	
Cognitive	
EXP 6208	EXP 6526

The selection of these courses will be made by mutual agreement of the student and his/her Master's Committee. Students with prior work in these areas may waive any of these courses by successfully passing a special examination given by the Psychology Department, or by seeking transfer of credit for equivalent graduate courses completed at another institution. Successful waiver may be used to reduce the overall credit hours requirement, if approved by the Psychology Department. A research thesis, PSY 6971, is required and the student must successfully pass an oral examination of the thesis and research courses.

In addition to the M.A. degree in Psychology, the Psychology Department and the Department of Educational Psychology in the College of Education jointly grant the M.A. degree in School Psychology (SE). (See College of Education, page 93.)

Requirements for the Ph.D. Degree

The Ph.D. in Psychology is offered in the fields of Clinical/Community, General Experimental and Industrial-Organizational Psychology. Advanced doctoral level specific requirements are determined by the student and his/her Ph.D. committee.

Assuming that the student has completed an M.A. degree in Psychology or its equivalent, the Psychology Department requires the following in addition to the general University requirements for the Ph.D. degree, on page 53.

1. Department of Psychology graduate minor requirement. A reading knowledge of two foreign languages, or a substitution of special work done outside the student's field of concentration approved by the student's Doctoral Committee and the Department, is required by the University for the Ph.D. degree. The Department of Psychology requires the student to take a Graduate Minor. The Minor meets the language requirement of the Graduate School. A minor program of study, composed of work

done outside the student's field of concentration and constituted by a minimum of three appropriate level courses or their equivalent, is required by the Department for admission to Ph.D. candidacy.

2. Supervised undergraduate psychology teaching experience.
3. A one-year internship in an approved clinical facility for Ph.D. students in the Clinical Psychology program.
4. Six months of internship in approved industries or community agencies as available for Ph.D. students in the Industrial-Organizational Psychology program.

■ Rehabilitation Counseling (REH/REF)

The mission of rehabilitation counseling is to help the disabled live normal and productive lives. Rehabilitation counselors work in a wide variety of human service settings, most frequently those serving the physically, mentally, or emotionally disabled. The Department of Rehabilitation Counseling emphasizes training in vocational, psychological, sociological, and medical aspects of disability. Graduates are prepared to work as both counselors and rehabilitation specialists.

The Department of Rehabilitation Counseling at the University of South Florida offers the M.A. degree. Most students are admitted after completing an undergraduate program in one of the behavioral, social, health related, or educational disciplines. There is some flexibility in that students may opt to enter the program while still University seniors.

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).

In January, 1982, the State of Florida began licensing mental health counselors. Rehabilitation counseling is a graduate discipline which qualifies for licensure under this act. Licensed mental health counselors must complete an organized graduate program of 60 semester hours and meet post-master's work experience requirements.

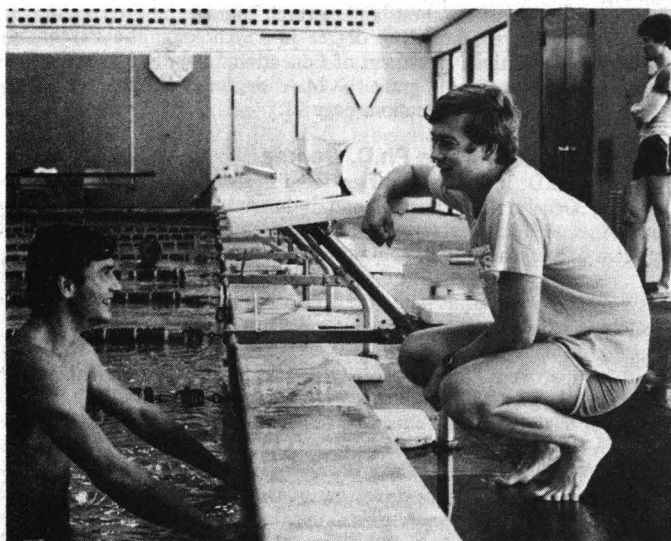
Requirements for the M.A. Degree:

General requirements for graduate work are given on page .

The Department of Rehabilitation Counseling offers the student the flexibility of entering the M.A. program while a University senior (REF) or after earning a baccalaureate degree (REH).

Minimum admission requirements for students electing the five-year approach include completion of 90 semester hours, a total Quantitative-Verbal score of at least 1000 on the GRE or a B average on all work beyond 60 semester hours, three letters of recommendation, and a personal interview. All General Distribution requirements must be completed before admission to the program. Students enrolled in a Five-Year Master's program may also earn a baccalaureate degree in another major under the conditions specified in the Academic Policies section of this catalog.

USF Natatorium



Minimum admission requirements for students entering the program as regular graduate students after they have earned a baccalaureate degree include a total Quantitative-Verbal score of at least 1000 on the GRE or a B average during the last two years of college undergraduate work or a graduate degree from an accredited institution, three letters of recommendation, and a personal interview.

The GRE must be taken by all students before applying to the program and scores received by the department before the admission deadline. New students are accepted for Fall and Spring Semesters only. The *deadline for applying* for admission for Fall Semester is *March 30* and the deadline for Spring Semester is *October 15*.

In addition, all students entering the graduate program (REH/REF) must show successful completion of an acceptable undergraduate social science introductory statistics course or equivalent, or they must complete such a course during the first semester after acceptance.

The Department of Rehabilitation Counseling offers both a thesis and a non-thesis program. There is no language requirement; however, a comprehensive examination involving both written and practical work is required of all students.

The following 44-hour core courses are consistent with national certification standards of rehabilitation counselors and must be taken by all students (post-baccalaureate, five-year, thesis, and non-thesis).

EGC 5065 (4)	EGC 5850 (1)	EGC 6494 (3)
EGC 5376 (4)	EGC 6205 (4)	EGC 6767 (4)
EGC 5493 (3)	EGC 6375 (4)	EGC 6851 (1)
EGC 5727 (4)	EGC 6468 (4)	EGC 6885 (8)

Additional requirements for graduation include:

Non-thesis program: Students in the non-thesis program must complete a minimum of 60 semester hours in the post-baccalaureate program and a total of no less than 150 semester hours in the five-year program (including the 44-hour core courses). Additional hours to complete either the minimum of 60 credit hours or the minimum of 150 credit hours may be elected from other rehabilitation counseling offerings or from related programs with the consent of the student's adviser.

Thesis program: Students in the thesis program must complete a minimum of 47 semester hours in the post-baccalaureate program (44-hour core courses plus 3 credit hours of EGC 6971), and a total of no less than 150 semester hours in the five-year program (44-hour core courses plus 3 credit hours of EGC 6971). Additional hours to complete the minimum of 150 credit hours for students in the five-year program may be elected from other rehabilitation counseling offerings or from related programs with the consent of the student's adviser. An oral defense of the thesis is required.

■ SOCIAL WORK (SOK)

Undergraduate Study

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 Social and Behavioral 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 to non-social work majors and others in the community.

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, social welfare organizations, etc. 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 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 availability 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 Social and Behavioral Science, 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 have a minimal grade point average of 2.75 for all U.S.F. work completed;
4. 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;
5. A student must complete an admission interview with a favorable action from the Admissions Committee.

Any of the foregoing admission criteria may be waived by the Department where unusual circumstances and compelling merit are clearly demonstrated.

Pre-Core Courses

1. A student must complete *one course in each* of the following cognate areas.
Biology
Environment
Food and Drugs

- Sex, Reproduction and Population
- Fundamentals of Biology
- Economics
 - Contemporary Economic Problems
 - Microeconomics
 - Macroeconomics
- 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. A student must complete *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

- History
 - Immigration History

- Sociology
 - Racial and Ethnic Relations

- Women's Studies
 - Introduction to Women's Studies
 - Contemporary Women in the United States
 - Psychology of Women
 - Women in Cross-Cultural Perspective

3. A student must complete *one* of the following behavior courses.

- Human Services
 - The Life Cycle

- Psychology
 - Developmental Psychology

4. A student must complete SOW 3203, *Introduction to Social Welfare and Social Work*, with a minimum grade of "B".

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 3403 (4)
4. Social Work Practice Courses
 - SOW 4341 (5)
 - SOW 4343 (5)
5. Directed Field Experience
 - SOW 4510 (10)
6. Additional Requirements
 - SOW 4361 (3)

Summary:

Core Courses	27 hours
Field Experience	10 hours
	<hr/> 37 hours

Graduate Study

The University of South Florida offers a program leading to a Master's of Social Work (M.S.W.) degree in the Department of Social Work, College of Social and Behavioral 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 MSW program is in candidacy for full accreditation by the Council on Social Work Education.

The primary objective of the MSW program is the preparation of the

graduate for professional social work practice through the provision of specialized knowledge and skills necessary for clinical practice with individuals, families and groups. The secondary objectives of the MSW program are: 1) to prepare students academically for pursuit of doctoral education in social work or related human service disciplines or professions; 2) to contribute to the needed supply of professionally trained clinical social workers in the Tampa Bay area, the State, the region and nationally.

The MSW program offers a specialized course of study in direct clinical practice. The program offers students a core curriculum plus electives and a supervised field experience designed to produce practitioners with individual, family and group practice skills. The program will emphasize broad health and mental health concerns and will offer students optional concentrations in the target populations of child/youth and adults/elderly.

The MSW program is designed to produce specific competencies for clinical practice. Graduates of the MSW program can reasonably be expected to: 1) demonstrate practice competency in relationship skills; 2) demonstrate knowledge of the interrelationships in the biological, psychological and sociocultural factors in human life including the impact of disease, injury and emotional distress and their implications for social work practice; 3) demonstrate skill in methods of scientific inquiry for the purpose of advancing professional knowledge and skill; 4) demonstrate basic skill in the application of a range of social work treatment methodologies for the purpose of differential diagnosis and intervention; 5) demonstrate practice competency in applying a psychosocial approach to the assessment of human problems; 6) demonstrate practice competency in applying a psychosocial approach to treatment of human problems through the modes of individual, family and group modalities; 7) demonstrate a basic knowledge of managerial processes in social services, including program planning, personnel management, finance and evaluation. In addition to producing the referenced practice competencies the MSW program places a great emphasis on standards of professional behavior and ethics in the practice of social work. The MSW program is designed to produce a *competent and professionally responsible graduate*.

Students admitted to the MSW program will be expected to maintain a minimum GPA of 3.0 with no grade below C counting toward graduation. Failure to maintain the specified grade point or to exhibit responsible professional behavior may result in suspension or dismissal from the program.

Students will be admitted to the MSW program once a year with new classes starting Semester I of each academic year (August). The course of study consists of 60 credit hours taken over four semesters. The curriculum is heavily sequenced and students must enroll on a full-time basis in accordance with the published schedule of the Department. Failure to maintain full-time enrollment will result in dismissal from the program. All students will be required to obtain professional liability insurance prior to enrollment in field courses.

Admission requirements for the MSW program are as follows:

1. An applicant must submit a completed application form to the Department of Social Work by March 1 for admission to the following Fall Semester (GRE scores may be submitted later upon arrangement with the Department);
2. An applicant must have a minimum grade average of 3.0 for the last two years of undergraduate work and/or for any graduate work completed;
3. An applicant must submit current GRE scores;
4. An applicant must have previous social service related experience (minimum of one year post undergraduate work or equivalent);
5. An applicant must provide names of previous supervisors and professors that may serve as references;
6. An applicant must complete a brief written statement on social work practice (to be assigned by the Department);
7. An applicant must participate in an admissions interview with the Admissions Committee (with favorable action).

Requirements for the M.S.W. Degree

- A. Human Behavior and Social Environment Courses
 1. SOW 6105 (4)
 2. SOW 6121 (3)
 3. SOW 6126 (2) or SOW 6129 (2)

- B. Social Work Practice Courses
 1. SOW 6360 (5)
 2. SOW 6362 (3)
 3. SOW 6368 (3)
 4. SOW 6356 (2) or SOW 6359 (2)
 5. SOW 6375 (2)
- C. Policy and Services Course
 1. SOW 6235 (4)
- D. Social Work Research Courses
 1. SOW 6404 (3)
 2. SOW 6432 (3)
 3. SOW 6433 (3)
- E. Supervised Field Experience
 1. SOW 6534 (4)
 2. SOW 6535 (6)
 3. SOW 6536 (4)
- F. Additional Requirements
 1. Electives (9)

Summary

Core Courses	37 hours
Field Experiences	14 hours
Electives	9 hours
Total	60 hours

■ SOCIOLOGY (SOC)

Sociology offers both a major and a minor.

As an undergraduate major, sociology provides students with three different kinds of program concentrations. One, attractive to the majority of possible students, may be described as "useful sociology." Many of the courses taken involve skills valuable in employment. For example, in a research methods course, interviewing skills can be used in sales, personnel work, social action careers, management, as well as in research. Similarly, careers which involve inter-personal relations can benefit enormously from courses in social psychology or small group analysis. Also, pre-professional training, as in law school, business administration, social work, and the like, can rest on courses that have "useful" aspects in them. Another concentration can be styled that of "liberal education." In this concentration, the central point is the question of the nature of man, the social being. Experience has shown that the truly liberally educated person is prepared for a variety of life experiences because that person understands how to ask important questions and how to go about getting answers. More importantly, the liberally educated person is equipped to take seriously the matter of being a human being. Sociology courses are aimed largely at problems on the nature of one's social world, the nature of man collectively, and on the individual person—the student as a unique being. Finally, sociology can be a major in the sense that it represents an intellectual discipline. Some students will find that it is interesting in its own right and that they would like to continue educational pursuits beyond the bachelor's degree.

These different concentrations differ as much in the attitude of the student taking the courses as in the selection of courses making up the individual program of study. They are not logically distinct concentrations; any one course may have elements of all three. For example, a student majoring in sociology as an academic discipline may at the same time involve himself in questions of a liberal education and at the same time pick up skills which will lead to satisfying employment. Students should understand that sociology majors are not restricted to social work or even social action types of careers.

Careers for which a major in sociology seems appropriate, judging from those who have so majored and succeeded in their fields, cover a wide range of lines utilizing interpersonal relations. Law, for example, is well predicated on sociology. So are personnel related careers, as in counseling. Similarly, knowledge of social relations, social structure, and class differences appear valuable to the entire spectrum of sales opportunities. Generally speaking, any career dealing with the public in a direct or indirect way will benefit from training in sociology. The benefits derive either from the knowledge gained or the skills (as in interviewing, a fundamental aspect of any formal system of people interacting with each

other), or both. Specific elective courses should reflect individual differences and the student's departmental major adviser will assist each one in making particular choices.

As an undergraduate minor, Sociology serves as a convenient body of knowledge and experience for a variety of disciplines. For the major in Mass Communications, for example, a Sociology minor would give some substance to stories and insights to backgrounds of stories thus enabling a reporter better to do an assigned job. Those majoring in Sales would similarly have an understanding of the process of whatever organization they work in or for, as well as a knowledge of the public. Similarly, students in advertising, politics, religion, counseling, aging studies, criminal justice, and related areas will find a sociological minor of particular value. Finally, those seeking to teach social studies at the high school level will find a minor in Sociology compatible with their interests.

Requirements for the Major (B.A. Degree)

The major consists of a minimum of 30 credit hours. The following courses may not be counted in the 30 hour minimum for the major but may be elected as additional courses: SOC 1020, MAF 2001, SOC 3696. No more than 3 credit hours of Individual Research (SOC 4910) may be counted as major elective credit. 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 30 credits needed to make up the major, no more than 9 credits earned elsewhere can count towards the major, and in addition, the 9 credits offered for the major must reflect courses offered here. 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 most completed at the University of South Florida.

SOC 2000 (3)	SOC 3612 (3)	STA 3122 (3)
SOC 3500 (3)	SOC 3800 (3)	
and either SOC 3410 (3) or SOC 3422 (3)		

For students electing a major after having successfully taken 12 upper division credits without having had a formal Introductory course, SOC 3422, Social Organization, may be substituted for SOC 2000 as a requirement. Students making this choice must take SOC 3410 to meet the additional requirement stated above.

Requirements for a Minor:

A minor consists of a total of 15 credits: SOC 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.

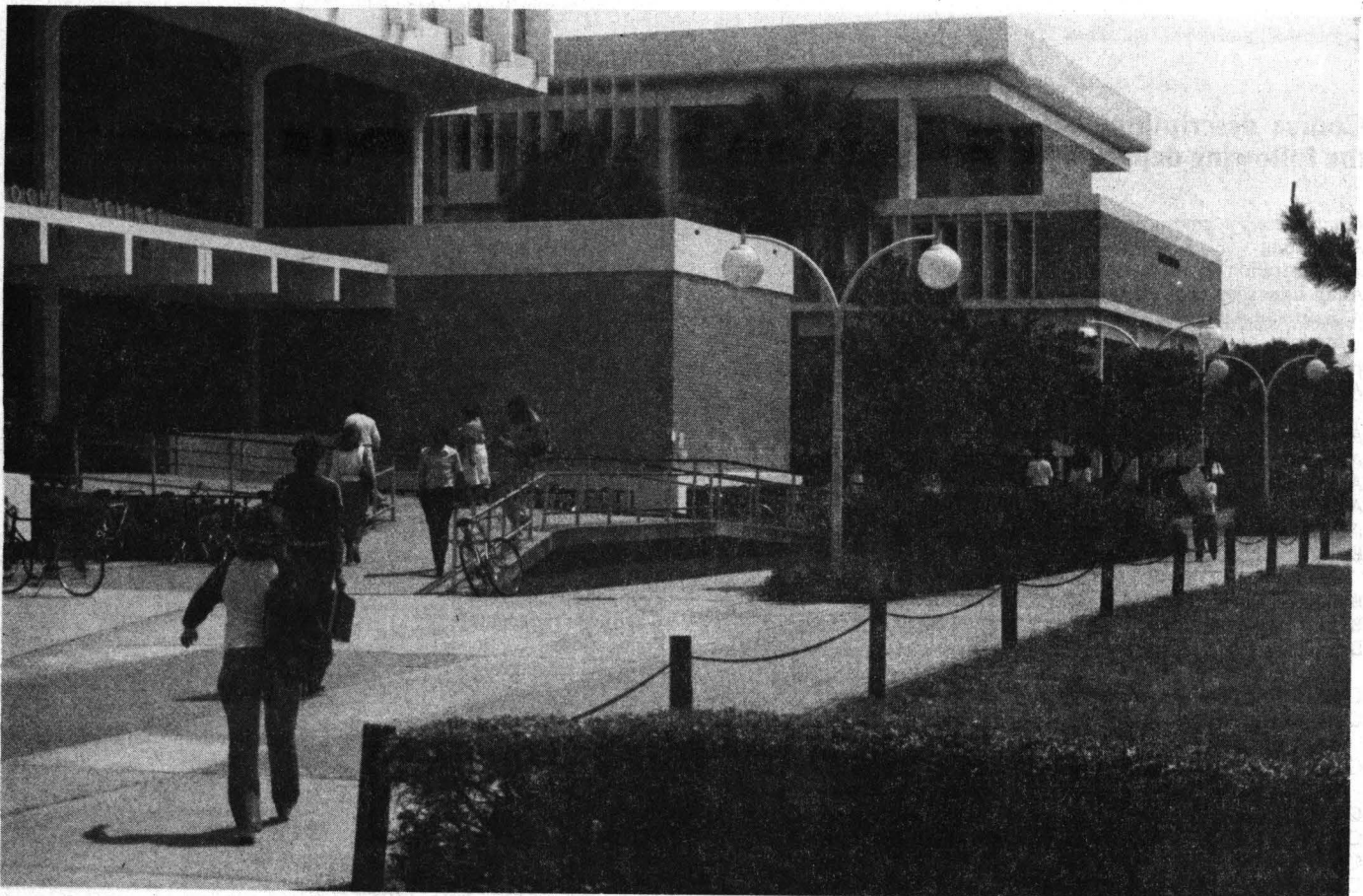
Requirements for the M.A. Degree:

A minimum of 32 credit hours and a thesis.
Required Courses (17 cr. hrs.)

SOC 6502 (3)	SOC 6699 (1)
SOC 6526 (4)	SOC 6971 (6)
SOC 6606 (3)	

University requirements for graduate study are given on page 48.

Admission to the M.A. Program: Satisfactory score on the Graduate Record Examination (Aptitude); two letters of reference from previous instructors; four courses in sociology, including statistics, theory, and methods of research (STA 3122, SOC 3612, SOC 3500, or equivalent). Documents are sent to the Office of Admissions. Instructions for applicants are available from the Department of Sociology.





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 quarters:

AMH 2010, 2020 AMERICAN HISTORY I, II (4,4)

Credits separated by a hyphen indicates 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:

GR	See <i>Grades in the Graduate Program</i> heading in the Division of Graduate Schools, page 48.
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

The University reserves the right to substitute, not offer, or add to 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:

<i>Department/Program</i>	<i>College</i>	<i>Department/Program</i>	<i>College</i>
Accounting	Business Administration	Criminal Justice	Social and Behavioral Sciences
Administration/Supervision	Education	Curriculum	Education
Adult Education	Education	Dance	Fine Arts
African and Afro-American Studies	Social and Behavioral Sciences	Distributive and Marketing Education	Education
American Studies	Arts and Letters	Economics	Business Administration
Ancient Studies (Religious Studies)	Arts and Letters	Electrical Engineering	Engineering
Anthropology	Social and Behavioral Sciences	Elementary Education	Education
Arabic (Language)	Arts and Letters	Emotional Disturbance Education	Education
Art	Fine Arts	Engineering Technology	Engineering
Art Education	Education	English	Arts and Letters
Astronomy	Natural Sciences	English Education	Education
Basic and Interdisciplinary Engineering	Engineering	Exceptional Child Education	Education
Biology	Natural Sciences	Finance	Business Administration
Botany (Biology)	Natural Sciences	Foreign Language Education	Education
Business and Office Education	Education	Foundation Courses in Business (Graduate)	Business Administration
Chemistry	Natural Sciences	Foundations	Education
Chemical and Mechanical Engineering	Engineering	French (Language)	Arts and Letters
Civil Engineering and Mechanics	Engineering	General Business Administration	Business Administration
Classics	Arts and Letters	General Foreign Languages	Arts and Letters
Common Body of Knowledge	Business Administration	Geography	Social and Behavioral Sciences
Communication	Arts and Letters	Geology	Natural Sciences
Communication-Speech Communication	Education	Gerontology	Social and Behavioral Sciences
Communicology	Social and Behavioral Sciences	German (Language)	Arts and Letters
Computer Science and Engineering	Engineering	Gifted Child Education	Education
Computer Service Courses	Engineering	Greek (Classics)	Arts and Letters
Cooperative Education	University-wide Courses	Health Education	Education
Counselor Education	Education	Hebrew (Language)	Arts and Letters
		Higher Education	Education
		History	Social and Behavioral Sciences
		Honors Program	University-wide Courses

<i>Department/Program</i>	<i>College</i>	<i>Department/Program</i>	<i>College</i>
Humanities	Arts and Letters	Off-Campus Term	Social & Behavioral Sciences
Humanities Education	Education	Philosophy	Arts and Letters
Human Services	Social and Behavioral Sciences	Physical Education (Elective)	University-wide Courses
Industrial and Management		Physical Education for Teachers	Education
Systems Engineering	Engineering	Physics	Natural Sciences
Industrial/Technical		Political Science	Social and Behavioral Sciences
Education	Education	Portuguese (Language)	Arts and Letters
International Studies		Psychology	Social and Behavioral Sciences
Program	Social and Behavioral Sciences		
Italian (Language)	Arts and Letters	Reading Education	Education
Latin (Classics)	Arts and Letters	Rehabilitation Counseling	Social and Behavioral Sciences
Liberal Studies	Arts and Letters	Religious Studies	Arts and Letters
Library, Media and		Romance (Language)	Arts and Letters
Information Studies	Education	Russian (Language)	Arts and Letters
Linguistics	Arts and Letters		
Management	Business Administration	Science Education	Education
Marine Science	Natural Sciences	Social Science Education	Education
Marketing	Business Administration	Social Sciences,	
Mass Communications	Arts and Letters	Interdisciplinary	Social and Behavioral Sciences
Mathematics	Natural Sciences	Social Work	Social and Behavioral Sciences
Mathematics Education	Education	Sociology	Social and Behavioral Sciences
Measurement-Research	Education	Spanish (Language)	Arts and Letters
Medical Sciences	Medicine	Specific Learning	
Medical Technology	Natural Sciences	Disabilities Education	Education
Mental Retardation		Speech Communication-	
Education	Education	English Education	Education
Microbiology (Biology)	Natural Sciences	Theatre	Fine Arts
Military Science	University-wide Courses	Women's Studies	Social and Behavioral Sciences
Music	Fine Arts	Zoology (Biology)	Natural Sciences
Music Education	Education		
Nursing	Nursing		

Cross-Listing of Departments and Programs Alphabetically by College, Department/Program

<i>College/ Department/Program</i>	<i>Common Course Prefixes</i>	<i>Liberal Studies</i>	<i>IDS</i>
		Linguistics	ESL, LIN, PHI, TSL
		Mass Communications	ADV, FIL, JOU, MMC, PUR, RTV, VIC
University-wide Courses		Philosophy	PHH, PHI, PHM, PHP
Cooperative Education	COE	Religious Studies	GRE, REL
Honors Program	IDS	Ancient Studies	CLA, HEB
Military Science	MIS		
Physical Education, Elective	DAA, PEL, PEM, PEN		
College of Arts and Letters		College of Business Administration	
American Studies	AMS	Accounting	ACC
Classics	CLT	Common Body of Knowledge (Graduate)	GEB,
Greek	GRE, GRW	Economics	ECO, ECP, ECS, GEB
Latin	LAT, LNW	Finance	FIN, REE, RMI
Communication	COM, LIN, ORI, SED, SPC,	General Business	
English	AML, CRW, ENC, ENG, ENL, LAE, LIN, LIT, REA	Administration	BUL, COC, GEB, MAN
Humanities	HUM	Management	MAN, QMB
		Marketing	MAR
Language		College of Education	
General Foreign		Administration/ Supervision	EDA, EDS
Languages	FOL	Adult Education	ADE
Arabic	ARA	Art Education	ARE, EDG
French	FLE, FRE, FRT, FRW	Business and Office	
German	GER, GET, GEW	Education	BTE
Hebrew	HEB	Communication-Speech	
Italian	ITA, ITT, ITW	Communication	EDG, SED
Portuguese	POR, POW	Counselor Education	EDC
Romance	FOW	Curriculum	EDE, EDG, EDM, ESE, LAE
Russian	RUS, RUT, RUW	Distributive and	
Spanish	SPN, SPT, SPW	Marketing Education	DEC

Elementary EducationARE, EDE, EDG, EDS, EEC,
HLP, LAE, MAE, MUE,
RED, SCE, SSE**Emotional Disturbance Education**

EED

English Education

LAE

Exceptional Child

EEX

Foreign Language

FLE

Foundations

EDF, SPS

Gifted Child

EGI

Education

HES

Health Education

EDH

Higher Education

HUM

Humanities Education**Industrial/Technical**

EIV, EVT

Education**Library, Media, and**

COP, LIS

Information Studies

CAP, MAE

Mathematics Education

EDF

Measurement-Research**Mental Retardation**

EMR, EEX

Education

MUE

Music Education**Physical Education**

HES, LEI, PEQ, PET

for Teachers

RED

Reading Education

SCE

Science Education**Social Science**

SSE

Education**Specific Learning Disabilities**

EDG, ELD, EPH, EVI

Education**Speech Communication-English**

SED

Education**College of Engineering****Basic and Interdisciplinary**

EGN

Engineering**Chemical and Mechanical**

ECH, EMC, EML, ENU

Engineering**Civil Engineering and**

CES, EAS, ECI, EES, EGM,

Mechanics

EMA, ENV, SUR, TTE

Computer Science and

CAP, CDA, CIS, COC,

Engineering

COP, COT, EEL, ESI

Computer Service Courses

CAP, CDA, COC, COP

Electrical Engineering

EEL, ELR

Engineering Technology

ETE, ETG, ETI

Industrial and Management

EIN, ESI

Systems Engineering**College of Fine Arts****Art**

ARH, ART

Dance

DAA, DAN

Music

MUC, MUG, MUH, MUL

MUN, MUO, MUS, MUT,

Theatre**College of Medicine****Medicine****Medical Sciences****College of Natural Sciences****Astronomy****Biology****Biology Courses****Botany Courses****Microbiology Courses****Zoology Courses****Chemistry****Geology****Marine Science****Mathematics****Medical Technology****Physics****College of Nursing****Nursing****College of Social and Behavioral Sciences****African and Afro-**
American Studies**Anthropology****Communicology****Criminal Justice****Geography****Gerontology****History****Human Services****International Studies****Off-Campus Term****Political Science****Psychology****Rehabilitation Counseling****Social Sciences,****Interdisciplinary****Social Work****Sociology****Women's Studies**MVB, MVK, MVP,
MVS, MVV, MVW
THE, TPA, TPPBCC, BMS, GMS, MEL
BMS, GMS

AST

APB, BOT, BSC, PCB, ZOO

BOT

APB, MCB, PCB

ENY, PCB, ZOO

BCH, CHM, CHS

GLY, OCE

OCB, OCC, OCE, OCG

OCP, PCB, ZOO

COP, MAA, MAC, MAD,

MAE, MAP, MAS, MAT,

MGF, MHF, MTG, STA

MLS

PHS, PHY

HUN, NUR, NUS, NUU

AFA, AFH, AFS, AMH,
CPO, ECP, HUM, INR,
PHM, PUP, SSI

ANT, MUH

SPA

CCJ, CJT

GEA, GEO, MET, URP

GEY

AFH, AMH, ASH, EUH,

HIS, LAH, WOH, WST

HUS, MHT, SOW

AFS, ASN, EUS, INR. LAS,

SSI, WST

IDS

CPO, INR, PAD, POS, POT,

PUP, URP

CBH, CLP, DEP, EXP, INP,

PPE, PSB, PSY, SOP

EGC

SSI, STA

SOW

DHE, LEI, MAF, SOC

ANT, LIT, POS, REL,

SOP, WST

Cross-Listing Departments/Programs
Alphabetically by Prefix**Common**
Course**Prefix****Department/Programs**

ACC

Accounting

ADE

Adult Education

ADV

Mass Communications

AFA

African and Afro-American Studies

AFH

African and Afro-American Studies, History

AFS

African and Afro-American Studies, International
Studies Program

AMH

African and Afro-American Studies, History

AML

English

AMS

American Studies

ANT

Anthropology, Women's Studies

APB

Biology, Microbiology (Biology)

ARA

Arabic (Language)

ARE

Art Education, Elementary Education

ARH	Art	ENG	English
ART	Art	ENL	English
ASH	History	ENU	Chemical and Mechanical Engineering
ASN	International Studies Program	ENV	Civil Engineering and Mechanics
AST	Astronomy	ENY	Zoology (Biology)
BCC	Medicine	EPH	Specific Learning Disabilities
BCH	Chemistry	ESE	Curriculum
BMS	Medicine, Medical Sciences	ESI	Industrial and Management Systems Engineering
BOT	Biology, Botany (Biology)	ESL	Linguistics
BSC	Biology	ETE	Engineering Technology
BTE	Business and Office Education	ETG	Engineering Technology
BUL	General Business Administration	ETI	Engineering Technology
CAP	Computer Service Courses, Computer Science and Engineering, Mathematics Education	ETM	Engineering Technology
CBH	Psychology	EUH	History
CCJ	Criminal Justice	EUS	International Studies Program
CDA	Computer Service Courses, Computer Science and Engineering	EVI	Specific Learning Disabilities Education
CES	Civil Engineering and Mechanics	EVT	Industrial/Technical Education
CHM	Chemistry	EXP	Psychology
CHS	Chemistry	FIL	Mass Communications
CIS	Computer Science and Engineering	FIN	Finance
CJT	Criminal Justice	FLE	Foreign Language Education, French (Language)
CLA	Ancient Studies (Religious Studies)	FOL	General Foreign Languages
CLP	Psychology	FOW	Romance (Language)
CLT	Classics	FRE	French (Language)
COC	Computer Service Courses, Computer Science and Engineering, General Business Administration	FRT	French (Language)
COE	Cooperative Education	FRW	French (Language)
COM	Communication	GEA	Geography
COP	Computer Service Courses, Computer Science and Engineering, Library, Media and Information Studies, Mathematics	GBE	Common Body of Knowledge, Economics, General Business Administration
COT	Computer Science and Engineering	GEO	Geography
CPO	African and Afro-American Studies, Political Science	GER	German (Language)
CRW	English	GET	German (Language)
DAA	Dance, Physical Education (Elective)	GEW	German (Language)
DAN	Dance	GEY	Gerontology
DEC	Distributive and Marketing Education	GLY	Geology
DEP	Psychology	GMS	Medical Sciences, Medicine
DHE	Sociology	GRE	Greek (Classics), Religious Studies
EAS	Civil Engineering and Mechanics	GRW	Greek (Classics)
ECH	Chemical and Mechanical Engineering	HEB	Ancient Studies (Religious Studies), Hebrew (Language)
ECI	Civil Engineering and Mechanics	HES	Health Education, Physical Education for Teachers
ECO	Economics	HIS	History
ECP	African and Afro-American Studies, Economics	HLP	Elementary Education
ECS	Economics	HUM	African and Afro-American Studies, Humanities, Humanities Education
EDA	Administration/Supervision	HUN	Nursing
EDE	Curriculum, Elementary Education	HUS	Human Services
EDF	Foundations, Measurement-Research	IDS	Honors Program, Liberal Studies, Off-Campus Term
EDG	Art Education, Curriculum, Communication-Speech Communication, Elementary Education, Specific Learning Disabilities	INP	Psychology
EDH	Higher Education	INR	African and Afro-American Studies, International Studies Program, Political Science
EDM	Curriculum	ITA	Italian (Language)
EDS	Elementary Education, Administration/Supervision	ITT	Italian (Language)
EEC	Elementary Education	ITW	Italian (Language)
EED	Emotional Disturbance Education	JOU	Mass Communications
EEL	Computer Science and Engineering, Electrical Engineering	LAE	Curriculum, Elementary Education, English, English Education
EES	Civil Engineering and Mechanics	LAS	International Studies Program
EEX	Exceptional Child Education, Mental Retardation Education	LAT	Latin (Language)
EGC	Counselor Education, Rehabilitation Counseling	LEI	Physical Education for Teachers, Sociology
EGI	Gifted Child Education	LIN	Communication, English, Linguistics
EGM	Civil Engineering and Mechanics	LIS	Library, Media and Information Studies
EGN	Basic and Interdisciplinary Engineering	LIT	English, Women's Studies
EIN	Industrial and Management Systems Engineering	LNW	Latin (Classics)
EIV	Industrial/Technical Education	MAA	Mathematics
ELD	Specific Learning Disabilities Education	MAC	Mathematics
ELR	Electrical Engineering	MAD	Mathematics
EMA	Civil Engineering and Mechanics	MAE	Elementary Education, Mathematics, Mathematics Education
EMC	Chemical and Mechanical Engineering	MAF	Sociology
EML	Chemical and Mechanical Engineering	MAN	Foundation Courses in Business (Graduate), General Business Administration, Management
EMR	Mental Retardation Education	MAP	Mathematics
ENC	English	MAR	Marketing
		MAS	Mathematics
		MAT	Mathematics
		MCB	Microbiology (Biology)

MEL	Medicine
MET	Geography
MGF	Mathematics
MHF	Mathematics
MHT	Human Services
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
NUR	Nursing
NUS	Nursing
NUU	Nursing
OCB	Marine Science
OCC	Chemistry, Marine Science
OCE	Geology, Marine Science
OCG	Marine Science
OCF	Marine Science
ORI	Communication
PAD	Political Science
PCB	Biology, Marine Science, Microbiology (Biology), Zoology (Biology)
PEL	Physical Education (Elective)
PEM	Physical Education (Elective)
PEN	Physical Education (Elective)
PEQ	Physical Education (Elective), Physical Education for Teachers
PET	Physical Education (Elective), Physical Education for Teachers
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	General Business Administration, 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	Elementary Education, Science Education
SED	Communication, Communication-Speech Communica- tion, Speech Communication-English Education
SOC	Sociology
SOP	Psychology, Women's Studies
SOW	Human Services, Social Work
SPA	Communication
SPC	Communication
SPN	Spanish (Language)
SPS	Foundations
SPT	Spanish (Language)
SPW	Spanish (Language)
SSE	Elementary Education, Social Science Education
SSI	African and Afro-American Studies, International Studies Program, Social Sciences Interdisciplinary
STA	Mathematics, Social Sciences Interdisciplinary
SUR	Civil Engineering and Mechanics
THE	Theatre
TPA	Theatre
TPP	Theatre
TSL	Linguistics
TTE	Civil Engineering and Mechanics
URP	Geography, Political Sciences
VIC	Mass Communications
WOH	History
WST	International Studies Program, Women's Studies
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

Director: G. F. Lentz; Coordinators: L. J. Berman, TBA.

UNDERGRADUATE COURSES

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, 5TH TRAINING PERIOD	(0)
PR: COE 3944. (S/U only.)	
COE 4946 COOPERATIVE EDUCATION, 7TH TRAINING PERIOD	(0)
PR: COE 3945. (S/U only.)	
COE 4947 COOPERATIVE EDUCATION, 8TH TRAINING PERIOD	(0)
PR: COE 4946. (S/U only.)	
COE 4948 COOPERATIVE EDUCATION, 9TH TRAINING PERIOD	(0)
PR: COE 4947. (S/U only.)	
COE 4949 COOPERATIVE EDUCATION, 10TH TRAINING PERIOD	(0)
PR: COE 4948. (S/U only.)	

HONORS PROGRAM

Director: David Schenck

UNDERGRADUATE COURSES

- IDS 3901 HONORS PROGRAM READING SEMINAR** (3)
PR: Admission to university Honors Program.
- IDS 3902 HONORS PROGRAM READING SEMINAR** (3)
PR: Admission to University Honors Program.
- IDS 3931 HONORS PROGRAM SELECTED TOPICS** (3)
PR: Admission to University Honors Program.
- IDS 4938 HONORS PROGRAM SENIOR SEMINAR** (3)
PR: Admission to University Honors Program.

MILITARY SCIENCE

UNDERGRADUATE COURSES

- MIS 1010C INTRODUCTION TO MILITARY SCIENCE** (3)
History and organization of R.O.T.C., U.S. Army, and their role in support of U.S. national defense policies. Emphasis on relation between U.S. Defense Establishment and federal government, with discussion of contemporary military political issues. Discussion of motivation, human behavior, and concept of military leadership.
- MIS 3410C FUNDAMENTALS OF LEADERSHIP** (3)
PR: MIS 1010C, or CI. The dual role of the military officer as leader and manager; problems of military leadership in the volunteer army; examination of classical leadership traits and principles, and the role of officers in the various branches of the Army.
- MIS 4421C SEMINAR IN LEADERSHIP AND MANAGEMENT** (3)
PR: MIS 3410C, CI. Obligations and responsibilities of a commissioned officer, with emphasis on application of sound leadership to all situations. Uniform Code of Military Justice and its relation to Civilian law; Fundamentals of both offensive and defensive tactics and role of various branches of the Army in tactical operations. Role of the U.S. in world affairs in the 1980's.

PHYSICAL EDUCATION-ELECTIVE

Chairperson: Richard Heesch; *Professors:* Richard Heesch, Gilman Hertz; *Associate Professors:* Robert Grindey, H. Andrew Honker, Sam Prather, Spafford Taylor, Joanne Young; *Assistant Professor:* Isaiah Trice

UNDERGRADUATE COURSES

- DAA 1374 FOLK & SQUARE DANCE** (2)
An opportunity for the development of fundamental skills and knowledge necessary for enjoyment of Folk and Square Dancing. (S/U only.)
- PEL 1121L GOLF I** (2)
Introductory experience in the sport of golf. Fundamental skills, information, strategy, and participation. (S/U only.)
- PEL 1141L ARCHERY** (2)
Development and refinement of the essential skills and information necessary for enjoying the sport of Archery. (S/U only.)
- PEL 1341L TENNIS I** (2)
Introductory experiences in the sport of tennis. Basic skills, playing strategies, lecture, demonstration, and participation. (S/U only.)
- PEL 1346L BADMINTON** (2)
Progressive experiences in badminton, fundamental skills, strategy, information, and participation. (S/U only.)
- PEL 2122L GOLF II** (2)
Continuation of PEL 1121L. Emphasis on course play and refinement of strokes. (S/U only.)
- PEL 2321L VOLLEYBALL** (2)
Review and refinement of fundamental skills, presentation and practice of the various offensive strategies. (S/U only.)
- PEL 2342L TENNIS II** (2)
Continuation of PEL 1341L. Refinement of basic skills, supplementary strokes, greater emphasis on tactics and playing strategies. (S/U only.)
- PEL 2441L RACKETBALL** (2)
Development and refinement of the skills and strategies of Racketball

- with opportunity for competition and tournament play. (S/U only.)
- PEL 2511L SOCCER** (2)
A course designed to present essential knowledge of the game of soccer. Instruction and practice of basic skills, rules, team play, and conditioning. (S/U only.)
- PEL 2621L BASKETBALL** (2)
Review and refinement of fundamental skills, presentations and practice of the various offensive and defensive strategies. (S/U only.)
- PEM 1201L GYMNASTICS I** (2)
Introductory experiences in the various gymnastics events. Opportunities to specialize in areas of personal interests. (S/U only.)
- PEM 1461C FOIL FENCING** (2)
Progressive experiences in the sport of Foil Fencing, fundamental skills, strategy, information, and participation. (S/U only.)
- PEM 2102L SPECIAL CONDITIONING** (2)
Varied activities designed to increase the functional ability of the different aspects of physical fitness. (S/U only.)
- PEM 2104L INDIVIDUAL PROGRAMMING** (2)
Individually prescribed and performed conditioning activities. (S/U only.)
- PEM 2107L FIGURE DEVELOPMENT** (2)
Varied activities designed to effect changes in body configuration and functional ability. (S/U only.)
- PEM 2131L WEIGHT TRAINING** (2)
Knowledge and techniques necessary for increasing muscle function. Assessment of status and development of a personal program. (S/U only.)
- PEM 2141C 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 2202L GYMNASTICS II** (2)
Continuation of PEM 1201L. Extended opportunities to master the various gymnastics events. Competition and individual routines. (S/U only.)
- PEM 2376 BACKPACKING** (2)
Introductory experiences designed to develop the physical skills and the mental attitude necessary to travel safely, efficiently, and considerately in the wilderness setting. (S/U only.)
- PEM 2441L KARATE** (2)
Introductory experiences in the sport of Karate. Fundamental skills, strategy, information, and participation. (S/U only.)
- PEM 2930 SELECTED TOPICS** (1-2)
Topics offered are selected to reflect student need and faculty interest. May be repeated up to 6 credit hours. (S/U only.)
- PEN 1121L SWIMMING I** (2)
Development and refinement of the essential skills and information necessary for enjoying swimming. Emphasis on personal safety. (S/U only.)
- PEN 2113C LIFE SAVING** (2)
PR: PEN 2122L or equivalent. Knowledge and skills necessary for saving one's self or others in the event of aquatic emergency. (S/U only.)
- PEN 2122L SWIMMING II** (2)
PR: PEN 1121L or equivalent. Continuation of PEN 1121L. Special emphasis on development of endurance and efficient stroking. (S/U only.)
- PEN 2136C SKIN & SCUBA DIVING** (2)
PR: PEN 2122L or equivalent. Development of the essential skills and knowledge necessary for enjoying the sport of Skin & Scuba Diving. Correct utilization and care of equipment; emphasis on personal safety. (S/U only.)
- PEN 2251L CANOEING** (2)
PR: PEN 1121L or equivalent. Development and refinement of the skills necessary for enjoying canoeing. Skills, safety techniques and trips. (S/U only.)
- PEQ 3115C WATER SAFETY INSTRUCTION** (2)
PR: PEN 2113C. 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 2340C HUMAN KINESIOLOGY II** (2)
PR: PET 2330C. An introduction to the mechanical principles which govern human movement. (S/U only.)

- PET 2373 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.

- PET 4622 ATHLETIC TRAINING** (2)
Principles and techniques of conditioning athletes for competition; prevention and care of injuries in physical education and athletic activities.

COLLEGE OF ARTS & LETTERS

AMERICAN STUDIES

Chairperson: J. B. Moore; *Distinguished Professor:* R. B. Nye; *Professors:* D. R. Harkness, J. B. Moore, H. M. Robertson; *Assistant Professors:* R. A. Baner, R. E. Snyder; *Other Faculty:* R. C. O'Hara, J. A. Parrish, S. A. Zylstra.

Undergraduate Courses

- 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, leisure and technology, vigilante tradition, jazz music, role of the family, American success myth, status of the arts in America. Repeatable up to 6 credit hours.
- AMS 3001 AMERICA AT THE TURN OF THE CENTURY** (4)
Integration of major aspects of American life between 1898 and 1914. Should be taken the first term a student becomes an American Studies major. Elective for non-majors.
- AMS 3201 THE COLONIAL PERIOD** (4)
The pattern of American culture as revealed through an examination of selected writings and pertinent slides and recordings dealing with the art, architecture and music of the colonial period. 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 environment are stressed.
- AMS 3303 THE AMERICANIZATION OF ENGLISH** (3)
An overview of American attitudes toward the English language from colonization to the present. Among the topics discussed are: the American mania for correctness, the influence of the school marm, place and proper names and language prudery.
- AMS 3930 SELECTED TOPICS IN AMERICAN STUDIES** (1-4)
Offerings include The American Success Myth, Cultural Darwinism in America, America Through Foreign Eyes, Contemporary Topics in American Studies, Nineteenth and Twentieth Century American Communes, and racism.
- 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 the Twentieth Century America, American Environmental Problems, Popular Culture in America, Southern Women: Myth and Reality.
- 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.

GRADUATE COURSES

- AMS 6155 THE CORE OF AMERICAN CULTURE** (3)
PR: Graduate standing. Open to non-majors. Representative works (from the arts, sciences, social sciences) reflecting the development of civilization in the U.S. from colonial times to the present. May be repeated up to six (6) credit hours with departmental permission.
- AMS 6254 U.S.A.: A DECADE IN DEPTH** (3)
PR: Graduate standing. Open to non-majors. An example would be The Thirties: Inter-related aspects of American Life from the Stock Market Crash to Pearl Harbor. May be repeated, up to six (6) credit hours.
- AMS 6805 MAJOR IDEAS INFLUENCING AMERICAN CIVILIZATION** (3)
PR: Graduate standing. Open to non-majors. Examination of such concepts as individualism, freedom and liberalism as embodied in literature, politics, religion, architecture, economics, science and technology.
- AMS 6901 DIRECTED READINGS IN AMERICAN STUDIES** (1-3)
PR: Graduate standing. Open to non-majors. Guided reading designed to expand a student's knowledge in a particular area of interest. May be repeated up to four credit hours.
- AMS 6915 DIRECTED RESEARCH** (var.)
PR: GR. Master's level. Repeatable. (S/U only.)
- AMS 6934 SPECIAL TOPICS IN AMERICAN STUDIES** (1-3)
PR: Graduate standing. Open to non-majors. Variable titles offered periodically on topics of special interest to American Studies students. May be repeated up to four credit hours.
- AMS 6971 THESIS: MASTER'S** (var.)
Repeatable. (S/U only.)

ANCIENT STUDIES

See Religious Studies CLASSICS

Professor: A. L. Motto; *Assistant Professor:* J. D. Noonan.

UNDERGRADUATE COURSES

- CLA 4935 SENIOR SEMINAR** (3)
PR: Senior in the Interdisciplinary Classics and the Ancient World Program. A seminar integrating disciplines involved in the study of the civilizations of the Ancient Near East, Greece and Rome.
- Courses in Translation**
- CLT 3040 CLASSICAL WORD ROOTS IN SCIENCE** (3)
A course in the Greek and Latin word stock used in all sciences (including medicine), technology, and law. Students' needs determine specific content of the course.
- CLT 3101 GREEK LITERATURE IN TRANSLATION** (4)
Reading and discussion of major works in Greek literature. Special emphasis is given to 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** (4)
Reading and discussion of major works in Roman literature. Special emphasis is placed on the *Aeneid*, comedy and satire. Some attentions is given to the political background of the works. All readings are in English.

- CLT 3370 CLASSICAL MYTHOLOGY** (4)
Study of the more important myths of the Greeks and Romans as laid down in classical literature and of the impact that classical mythology made on modern Western, and in particular, English literature. All readings done in English.

See Interdisciplinary Classics, page 57.

GRADUATE COURSE

- CLA 5934 SELECTED TOPICS IN LATIN** (4)
Study of a major author, movement, or theme. Available to advanced students, both majors and non-majors. No labs or lecture sections. Cannot be taken on an S/U basis. May be repeated since content varies each semester.

Greek

UNDERGRADUATE COURSES

- GRE 1100 BEGINNING CLASSICAL GREEK I** (4)
An introductory course in classical Greek grammar with appropriate readings.
- GRE 1101 BEGINNING CLASSICAL GREEK II** (4)
PR: GRE 1100 or equivalent. An introductory course in classical Greek grammar with appropriate readings.
- GRE 3110 BEGINNING MODERN GREEK** (4)
An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition.
- GRE 3111 BEGINNING MODERN GREEK II** (5)
PR: GRE 3110 or its equivalent. A continuation of GRE 3110. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.
- GRW 4905 DIRECTED READING** (1-4)
Departmental approval required.
- GRW 4930 SELECTED TOPICS** (4)
Study of an author, movement, or theme. May be repeated.

Latin

UNDERGRADUATE COURSES

- LAT 1100 BEGINNING LATIN I** (4)
An introductory course in Latin grammar with appropriate readings.
- LAT 1101 BEGINNING LATIN II** (4)
PR: LAT 1100 or equivalent. An introductory course in Latin grammar with appropriate readings.
- LNW 4311 ROMAN COMEDY I: PLAUTUS** (3)
PR: Basic knowledge of Latin. Readings of selected plays by Plautus; introduction to comedy—its theory and practice.
- LNW 4312 ROMAN COMEDY II: TERENCE** (3)
PR: Basic knowledge of Latin. Readings of selected plays by Terence.
- LNW 4322 ROMAN ELEGIAIC POETS II: PROPERTIUS AND TIBULLUS** (3)
PR: Basic knowledge of Latin. Readings in Propertius and Tibullus; further study of art and tradition in Roman lyric poetry.
- LNW 4361 ROMAN SATIRE I** (3)
PR: Basic knowledge of Latin. Readings in the Satyricon of Petronius: Introduction to the nature of satire.
- LNW 4362 ROMAN SATIRE II** (3)
PR: Basic knowledge of Latin. Readings in Seneca's Apocolocyntosis, the satires of Horace, and Juvenal. Introduction to the tradition and art of formal verse satire.
- LNW 4381 LIVY** (3)
PR: Basic knowledge of Latin. Readings in the ideas and artistry of this Roman historian.
- LNW 4500 CICERO AND ROMAN PHILOSOPHY** (3)
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** (3)
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 4660 ROMAN ELEGIAIC POETS I: CATULLUS** (3)
PR: Basic knowledge of Latin. Readings in Catullus. Study of techniques and tradition in Roman lyric poetry.
- LNW 4665 CICERO** (3)
PR: Basic knowledge of Latin. Readings in the epistles of Cicero.
- LNW 4675 HORACE** (3)
PR: Basic knowledge of Latin. Readings in the Odes and Epodes of Horace; study of the Ode's tradition.
- LNW 4900 DIRECTED READING** (1-4)
Departmental approval required.
- LNW 4930 SELECTED TOPICS** (4)
Study of an author, movement, or theme.

COMMUNICATION

Chairperson: J. I. Sisco; *Professors:* R. D. Brooks, P. J. Newcombe, R. J. Schneider, J. I. Sisco, D. H. Smith; *Professor Emeritus:* A. J. Sarett; *Associate Professors:* D. A. Carter, B. F. Downs; *Assistant Professors:* K. N. Cissna, N. C. James, M. L. Lewis; *Instructors:* M. V. Doyle.

UNDERGRADUATE COURSES

- COM 3003 DIMENSIONS OF COMMUNICATION** (3)
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 3122 INTERVIEW COMMUNICATION** (3)
A study of communication theory relative to interview situations with emphasis on the employment interview, appraisal interview, and persuasive interview.
- COM 3131 TECHNICAL COMMUNICATION** (3)
Investigation and application of methodology and effective technical communication of effective oral presentation of technical reports.
- COM 4110 SPEECH COMMUNICATION FOR BUSINESS AND THE PROFESSIONS** (3)
Identification of Speech 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 4120 INTRODUCTION TO COMMUNICATION THEORY IN ORGANIZATIONS** (3)
PR: majors, COM 3003 or CI; non-majors, COM 3122 or COM 4110 or CI. A survey of communication concepts which impact upon organizational effectiveness.
- COM 4942 COMMUNICATION INTERN SEMINAR** (3)
PR: Communication major and CI. The Communication Intern 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.
- ORI 3000 FUNDAMENTALS OF ORAL READING** (3)
Designed to develop proficiency in the understanding and oral communication of literary and other written materials.
- ORI 3920 ISSUES AND INTERPRETATION** (2)
The study of literature through analysis of printed textual materials and of the visual-aural textual performance of them. May be repeated.
- ORI 3950 ORAL INTERPRETATION PERFORMANCE** (2)
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 ORAL INTERPRETATION 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 ORAL INTERPRETATION OF DRAMATIC LITERATURE** (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 4230 ORAL INTERPRETATION OF BIBLICAL**LITERATURE**

(3)

PR: ORI 3000 or CI. A critical interpretation and/or presentation of selected Books of the Old Testament.

ORI 4310 GROUP PERFORMANCE OF LITERATURE

(3)

PR: ORI 3000 or CI. Designed to introduce the student to and give him experience in various forms of group approaches to oral interpretation.

SPC 2023 FUNDAMENTALS OF SPEECH COMMUNICATION

(3)

The nature and basic principles of speech; 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 2052 SPEECH IMPROVEMENT AND PHONETICS II

(3)

PR: SPE 2050 or CI. A continuation of SPE 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 communications; communication settings; descriptive and predictive models of communication; speech communication as a process.

SPC 3301 INTERPERSONAL COMMUNICATION

(3)

PR: Junior standing or CI. A study of interpersonal communication in informally structured settings with emphasis on the understanding, description, and analysis of human communication.

SPC 3410 PARLIAMENTARY PROCEDURES

(2)

Principles of parliamentary procedure and practice in conducting and participating in meetings governed by parliamentary rules.

SPC 3441 GROUP COMMUNICATION

(3)

PR: Junior standing or CI. A survey of theory and experimental 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 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 3641 PROPAGANDA

(3)

Study of persuasive campaigns and movements.

SPC 3651 CURRENT ISSUES AND RHETORIC

(2)

Analysis of significant current speakers and issues. May be repeated.

SPC 3653 POPULAR FORMS OF PUBLIC COMMUNICATION

(3)

PR: Junior standing or CI. Analysis of public communication with emphasis on various presentational forms.

SPC 3900 DIRECTED READINGS

(1-3)

PR: Junior standing and CI.

SPC 3905 UNDERGRADUATE RESEARCH

(1-3)

PR: Junior standing and CI. Individual investigations and faculty supervision.

SPC 3930 SELECTED TOPICS

(1-3)

PR: Junior standing and CI.

SPC 4640 THE RHETORIC OF AMERICAN DEMAGOGUES

(3)

An analysis of the communication of such 20th Century American political leaders as: Bilbo, Agnew, McCarthy, Wallace, Nixon, and Malcolm X.

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 and CI.

SPC 4905 UNDERGRADUATE RESEARCH

(1-3)

PR: Senior standing and CI. Individual investigations with faculty supervision.

SPC 4906 INDEPENDENT STUDY

(1-3)

PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated for credit. (S/U only.)

SPC 4930 SELECTED TOPICS

(1-3)

PR: Senior standing and CI.

SPC 4932 SENIOR SEMINAR IN SPEECH COMMUNICATION

(3)

PR: Senior standing. Speech Communication major. Exploration of selected topics of current significance to the several areas of speech communication through group discussion and research.

GRADUATE COURSES**COM 5123 COMMUNICATION ASSESSMENT IN****ORGANIZATIONS**

(3)

PR for undergraduates, COM 4120 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.

COM 6001 INTRODUCTION TO GRADUATE STUDY IN**COMMUNICATION**

(3)

Required of all M.A. candidates. An introduction to the aims and methodologies of the graduate discipline of communication: its relationship to the adjacent arts and sciences; bibliographical resources; methods of research; and a brief survey of the historical development of the field with emphasis upon current issues in theory, research, and practice.

COM 6121 COMMUNICATION THEORY IN**ORGANIZATIONS**

(3)

A study of communication theory and behavior within organization settings: role of communication, communication climates, communication networks, leadership.

COM 6312 EXPERIMENTAL RESEARCH IN ORAL**COMMUNICATION**

(3)

Critical examination of research design, procedures, and reporting of experimental studies in small group communication and persuasive discourse.

COM 6400 COMMUNICATION THEORY

(3)

PR: COM 6001. An examination of communication theory through selected reading in the works of major theorists past and present.

LIN 5231 COMMUNICATION SCIENCE: THEORY AND**PRACTICUM**

(3)

PR: SPC 2050 or CI. Intensified instruction in neuroanatomy of oral-nasal cavities, ear, pharyngeal, laryngeal, and thoracic areas. Includes topics in phonological theory such as feature composition and markedness. Practice in IPA and identification of segments through Sona-Graph work.

LIN 5245 EXPERIMENTAL PHONETICS

(3)

PR: SPE 2050 or CI. Intensified training in auditory discrimination of the sounds of American English. Detailed use of research findings, instruments, and methodologies in the laboratory study of normal speech. Development of phonetic skills of discrimination and reproduction of speech sounds.

LIN 6233 ADVANCED PHONETICS

(3)

PR: LIN 5231 or equivalent. Intensified training in close phonetic transcription. Work on dialects, intonation, distinctive feature theory and acoustic phonetics.

ORI 5145 ORAL INTERPRETATION OF DRAMATIC**LITERATURE II**

(3)

PR: ORI 4140. A study of selected pre-modern dramas with special emphasis on problems of interpretation for oral performance.

ORI 5210 ORAL INTERPRETATION 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.

ORI 6146 ORAL INTERPRETATION OF THE PLAYS OF**SHAKESPEARE**

(3)

PR: ORI 3000 or CI. A study of selected plays of Shakespeare from the point of view of the oral interpreter.

ORI 6350 LITERARY ADAPTATION FOR ORAL**INTERPRETATION**

(3)

Composition and adaptation of literary materials for oral presenta-

tion. An investigation of approaches to various genres: poetry, fiction, and non-fiction.

ORI 6410 HISTORY AND THEORIES OR ORAL INTERPRETATION (3)

A study of the history, critical writings, uses, and developments of the art of oral interpretation, with analysis of the principles and practices.

SED 6943 GRADUATE INSTRUCTION METHODS (1-4)

Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of 4 credits per student. (S/U only.)

SPC 5903 DIRECTED READINGS (1-4)

PR: Senior or graduate standing and CI.

SPC 5912 RESEARCH (1-4)

PR: Senior or graduate standing and CI.

SPC 5933 SELECTED TOPICS (1-4)

PR: Senior or graduate standing and CI.

SPC 6149 COMMUNICATION: ANALYSIS AND MEASUREMENT (3)

A study of selected modes of communication. Includes analysis of communication symbology, and presents the theory and application of selected instruments for measuring and producing speech.

SPC 6231 RHETORICAL THEORY (3)

Historical development of rhetorical theory from Plato to contemporary theorists with emphasis upon the evolution of trends and concepts in rhetorical theory.

SPC 6391 SEMINAR INTERPERSONAL COMMUNICATION (3)

Study of theory and research related to interpersonal communication.

SPC 6442 THEORY AND RESEARCH IN SMALL GROUP COMMUNICATION (3)

PR: SPC 3441. Study of contemporary theories and research relating to communication in small group settings.

SPC 6515 THEORIES OF ARGUMENT (3)

An examination of argumentative theory through the medium of selected reading in the works of major theorists past and present. In addition, selected examples from the argumentative persuasion of each historical period will be examined and analyzed for the purpose of correlating theory with practice.

SPC 6545 PERSUASION (3)

PR: SPC 3513. Study of contemporary theories and research in persuasion.

SPC 6610 HISTORY AND CRITICISM OF AMERICAN PUBLIC ADDRESS (3)

Criticism of selected speeches and speakers of American public address, studied against a background of political, social, and intellectual issues.

SPC 6682 THEORIES OF RHETORICAL CRITICISM (3)

The study of theoretical perspectives in rhetorical criticism. The application of criticism to selected rhetorical situations.

SPC 6903 DIRECTED READINGS (1-4)

SPC 6913 DIRECTED RESEARCH (var.)

PR: GR. Master's level. Repeatable. (S/U only.)

SPC 6934 SELECTED TOPICS IN SPEECH (1-4)

SPC 6971 THESIS: MASTER'S (var.)

Repeatable. (S/U only.)

ENGLISH

Acting Chairperson: J. A. Parrish, Jr.; *Professors:* J. G. Bentley, L. R. Broer, J. R. Clark, W. F. Davis, H. A. Deer, I. Deer, R. F. Dietrich, F. J. Fabry, S. R. Fiore, W. Garrett, E. F. Henley, J. P. Hinz, E. W. Hirschberg, J. J. Iorio, D. L. Kaufmann, H. C. Kiefer, J. B. Moore, W. E. Morris, J. W. Parker, Jr., W. D. Reader, W. H. Scheuerle, E. E. Smith, D. A. Wells; *Associate Professors:* R. E. Chisnell, S. M. Deats, R. M. Figg III, R. E. Hall, S. J. Hall, J. S. Hatcher, W. J. Heim, M. G. Ochshorn, W. T. Ross, S. J. Rubin, T. E. Sanders, R. D. Wyly, Jr.; *Assistant Professors:* A. G. Bryant, P. J. Collins, M. C. Harmon, F. T. Mason, J. D. Walther, F. J. Zbar; *Instructor:* J. J. Dietz; *Lecturers:* I. F. Ceconi, V. W. Valentine.

UNDERGRADUATE COURSES

AML 3031 (formerly AML 3103) AMERICAN LITERATURE FROM THE BEGINNINGS TO 1860 (4)

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 (formerly AML 3107) AMERICAN LITERATURE FROM 1860 TO 1912 (4)

A study of representative works of selected American Realists and early Naturalists, among them Whitman, Dickinson, Twain, James, Howells, Crane, Drieser, Wharton, Robinson.

AML 3041 (formerly AML 3010) SURVEY OF AMERICAN LITERATURE TO 1945 (4)

An introductory course consisting of selected highlights of American literature from the beginnings to 1945.

AML 3051 (formerly AML 3111) AMERICAN LITERATURE FROM 1912 TO 1945 (4)

A study of poetry, drama, and fiction by such writers as Pound, Fitzgerald, Hemingway, Faulkner, Cummings, Williams, Anderson, Lewis, Steinbeck, Wright, Wolfe, West, Stevens, Henry Miller, and others.

AML 3271 (formerly LIT 3332) BLACK LITERATURE (4)

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 3273 (formerly LIT 3323) AMERICAN INDIAN LITERATURE (4)

A survey of native American Literature from pre-Columbian religious and folk literature to the current voices in the pan-Indian movement.

AML 4101 (formerly ENG 4345) NINETEENTH CENTURY AMERICAN NOVEL (4)

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 (formerly ENG 4223) TWENTIETH CENTURY AMERICAN NOVEL (4)

A study of major trends and influences in American prose fiction from 1900 to the present. Includes works by such writers as Hemingway, Faulkner, Wolfe, Fitzgerald, Steinbeck, Anderson, Welty, Malamud, Roth, Barthelme, and others.

AML 4261 (formerly AML 4320) LITERATURE OF THE SOUTH (4)

PR: One course in American literature. A study of the major writers of the "Southern Renaissance," including writers such as Faulkner, Wolfe, Caldwell, Hellman, McCullers, O'Connor, Warren, Styron, Allen Tate, and Donald Davidson.

AML 4300 (formerly AML 4214) MAJOR AMERICAN AUTHORS (4)

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 3100 (formerly ENC 3486) NARRATION AND DESCRIPTION (4)

Writing short papers in narration and description, and the personal essay; analyzing selected essays to heighten sensitivity to language.

CRW 3110 (formerly CRW 3230) IMAGINATIVE WRITING: FICTION (4)

PR: CRW 3100. Introduction to the writing of fiction. This course will introduce students to the variety of forms and techniques in the writing of imaginative prose.

CRW 3111 (formerly CRW 3210) FORM AND TECHNIQUE OF FICTION (4)

Analysis of and exercises in the elements of fiction: point of view, characterization, conflict, tone, and image.

CRW 3300 (formerly CRW 3310) FORM AND TECHNIQUE OF POETRY (4)

Study of the basic elements of poetry for reader and writer. Beginning with poetic language and devices used to create forms (haiku, tanka, ballad, song), progressing to basic prosody, rhyme, and stanza pattern, the student is trained in and learns to write many different forms of poetry.

CRW 3311 (formerly CRW 3321) IMAGINATIVE WRITING: POETRY (4)

Introduction to the writing of poetry. This course introduces the student to a variety of forms and techniques in the writing of poetry.

CRW 4120 (formerly CRW 4240) WORKSHOP IN FICTION (4)

Study and writing of the short story and sections of the novel. Evaluation of student work in conferences, selected readings. May be taken twice for credit.

CRW 4320 (formerly CRW 4340) WORKSHOP IN POETRY (4)

Self-expression in traditional and contemporary forms. Student-teacher conferences and classroom discussion, selected readings. May be taken twice for credit.

ENC 0000 (formerly ENC 0013) DEVELOPMENTAL ENGLISH (3)

Instruction and practice in the review of the fundamentals of English. Includes developmental work in English as applied in writing, with emphasis on grammar, punctuation, mechanics of expression and sentence structure. Credit received *will not* count toward Freshman English credit. Students enrolled will be required to take the full Freshman English sequence upon completing this course. Initial placement in course will be determined by student's score on *Test of Standard Written English*.

ENC 1101, 1104 (formerly ENC 1102, 1135) FRESHMAN ENGLISH (3,3)

Instruction and practice in the skills of writing and reading. Courses must be taken in numerical sequence.

ENC 3011 (formerly ENC 3016) PRACTICAL GRAMMAR AND USAGE (3)

Coverage of the traditional forms and practices of English grammar. A study of sentence patterns, sentence structure, agreement, punctuation, pronoun case, and related matters.

ENC 3210 (formerly ENC 3343) BASIC TECHNICAL WRITING (4)

Effective presentation of technical and semi-technical information. May be repeated once for credit.

ENC 3310 (formerly ENC 3466) EXPOSITORY WRITING (4)

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.

ENG 3105 (formerly ENG 3156) MODERN LITERATURE, FILM, AND THE POPULAR ARTS (4)

Exploration into the nature and function of modern literature, film, and some of the popular arts like fantasy, westerns, science fiction, war stories, and detective stories. The works of such writers as Vonnegut, Tolkien, Thurber, Heller, Barthelme, Berger, and Kesey are examined.

ENG 3114 (formerly ENG 3138) MODERN DRAMA TO 1945 (4)

A study of such modern dramatists as Ibsen, Strindberg, Chekhov, Pirandello, Shaw, and O'Neill, among others. Films will demonstrate the possibilities of visualization.

ENG 4013 (formerly ENG 4814) LITERARY CRITICISM (4)

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 4906 INDIVIDUAL RESEARCH (1-4)

Directed study in special projects. Special permission of chairperson required.

ENG 4907 (formerly ENG 4900) DIRECTED READING (4)

Readings in special topics.

ENL 3012 (formerly ENL 3030) SURVEY OF BRITISH LITERATURE TO 1750 (4)

An introductory course consisting of selected highlights of English literature from the Middle Ages to 1750.

ENL 3022 (formerly ENL 3041) SURVEY OF BRITISH LITERATURE 1750 TO 1945 (4)

An introductory course consisting of selected highlights of English literature from 1750 to 1945.

ENL 3201 (formerly ENL 3010) EARLY ENGLISH LITERATURE (4)

A survey of representative works of poetry, prose, and drama of the Old English, Middle English and early Renaissance to 1557, including *Beowulf*, Chaucer, Malory, More, Hooker, Skelton, Wyatt, among others.

ENL 3220 (formerly ENL 3320) LITERATURE OF THE ENGLISH RENAISSANCE (4)

A survey of representative works of poetry, prose, and drama of the English Renaissance, from approximately 1558 to 1649, including Sidney and Spenser to Donne and Marvell, with special attention to the emergence of the New Poetry.

ENL 3230 (formerly ENL 3351) LITERATURE OF THE RESTORATION AND EIGHTEENTH-CENTURY (4)

A survey of Neoclassical English literature beginning with Marvell and the late work of Milton, and ending with the late Neoclassicism of Johnson, Boswell, and Goldsmith.

ENL 3241 (formerly ENL 3401) ROMANTIC LITERATURE (4)

The poetry and poetics of Blake, Wordsworth, Coleridge, Byron,

Shelley, and Keats; with attention to the lesser figures, the eighteenth century background, and the continuing importance of romantic thinking in contemporary affairs and letters.

ENL 3250 (formerly ENL 3430) VICTORIAN AND EDWARDIAN LITERATURE (4)

A survey of representative figures of the Victorian and Edwardian periods, ending in 1914, including poetry, prose, and drama of such authors as Carlyle, Tennyson, Browning, Swinburne, Rossetti, Dickens and Wilde.

ENL 3273 (formerly ENL 3441) BRITISH LITERATURE FROM 1914 TO 1945 (4)

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, among others.

ENL 3333 (formerly ENL 3133) SHAKESPEARE (4)

Reading of eight to ten representative plays, with special attention to developing the students' ability to read and interpret the text.

ENL 3334 (formerly ENG 3133) SHAKESPEARE: TEXTS AND FILMS (4)

An introduction to the art of William Shakespeare through a comparative analysis of four of his most famous dramas and modern film adaptation of them; *Hamlet*, *King Lear*, *Romeo and Juliet* and *Henry V*.

ENL 4112 (formerly ENG 4321) EIGHTEENTH-CENTURY BRITISH NOVEL (4)

A study of the emergence of modern realistic prose fiction in the eighteenth century, with emphasis on Fielding, Richardson, Smollett, and Sterne.

ENL 4122 (formerly ENG 4325) NINETEENTH-CENTURY BRITISH NOVEL (4)

A study of such major British novelists as Austen, Scott, Thackeray, Dickens, the Brontës, Eliot, Meredith, and Hardy.

ENL 4131 (formerly ENG 4227) TWENTIETH CENTURY BRITISH NOVEL (4)

A critical study of British fiction, from 1900 to the present, with emphasis on such writers as Conrad, Lawrence, Joyce, Woolf, Forster, Huxley, Waugh, Durrell, Burgess, Powell, and others.

ENL 4171 (formerly ENG 4424) HISTORY OF BRITISH DRAMA TO 1912 (4)

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, among others.

ENL 4202 (formerly ENL 4300) ANGLO SAXON LITERATURE (4)

A study of English heroic culture as presented in the literature occurring before 1066, such as *Beowulf*, *the Battle of Maldon*, *the Seafarer*, and Selected Charms and Spells.

ENL 4210 (formerly ENL 4311) MIDDLE ENGLISH LITERATURE (4)

An intensive study of one or more formal types occurring between 1066 and 1500, such as Arthurian Romance, The Dream Vision, the drama, and lyrics and ballads.

ENL 4221 (formerly ENL 4344) RENAISSANCE LITERATURE: SELECTED STUDIES (4)

Study of one or more types, genres, modes, and themes of English literature; 1600-1660, such as Metaphysical Poetry, Cavalier Mode, Devotional Literature, New Philosophy, Analytical Prose, Verse Satire. Specific topics will vary.

ENL 4232 (formerly ENG 4113) RESTORATION AND EIGHTEENTH CENTURY: SELECTED STUDIES (4)

An intensive study of one or more types, genres, modes, and themes of 18th century British Literature. Specific topics may vary.

ENL 4242 (formerly ENL 4406) ROMANTIC LITERATURE: SELECTED STUDIES (4)

An intensive study of one or more formal types of British literature occurring between 1785 and 1832, such as Romantic Nature Poetry, Romantic Historical Novels and Poems, etc. Specific topics will vary.

ENL 4251 (formerly ENL 4415) VICTORIAN LITERATURE: SELECTED STUDIES (4)

An intensive study of one or more formal types of Victorian literature, such as the essay, the lyric, the longer poem, prose, fiction, etc. Specific topics will vary.

ENL 4303 (formerly ENL 4062) MAJOR AUTHORS (4)

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 (formerly ENL 4112) CHAUCER (4)

An intensive study of *The Canterbury Tales* and major critical concerns.

ENL 4341 (formerly ENL 4121) MILTON (4)

Study of the poetry and major prose of John Milton, with special emphasis on *Paradise Lost*.

LIN 4100 (formerly ENG 4512) HISTORY OF THE ENGLISH LANGUAGE (4)

The evolution of language from Anglo-Saxon through Middle English to Modern English. Changes in the pronunciation, syntactic, and semantic systems; discussion of the forces which influenced them; a consideration of how these changes may influence the interpretation of literature.

LIN 4370 STRUCTURE OF AMERICAN ENGLISH (4)

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 2000 INTRODUCTION TO LITERATURE: GENERAL (4)

The nature and significance of literature in its various forms: fiction, drama, poetry; emphasis on the techniques of reading literature for intelligent enjoyment. Will not be counted toward the English major.

LIT 2021 (formerly ENG 2231) CURRENT SHORT FICTION (4)

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 2091 (formerly ENG 2300) CURRENT NOVELS (4)

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 (formerly ENG 2460) DRAMA: TEXTS AND FILMS (4)

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 3022 (formerly ENG 3294) MODERN SHORT NOVEL (4)

A study of the novella from the nineteenth century to the present. Writers included are: Flaubert, Conrad, Lawrence, Mann, Kafka, Bellow, Roth, and others.

LIT 3073 (formerly LIT 3135) CONTEMPORARY BRITISH AND AMERICAN LITERATURE FROM 1945 TO THE PRESENT (4)

An introduction to the fiction, poetry, and drama of such writers as Beckett, Ginsberg, Nabokov, Roethke, Plath, Vonnegut, Welty, Malamud, Durrell, Mailer, MacLeish, and others.

LIT 3101 (formerly LIT 3252) LITERATURE OF THE WESTERN WORLD THROUGH THE RENAISSANCE (4)

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 (formerly LIT 3254) LITERATURE OF THE WESTERN WORLD SINCE THE RENAISSANCE (4)

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 (formerly ENG 3371) MODERN EUROPEAN NOVEL (4)

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 (formerly ENG 3152) TWENTIETH-CENTURY BEST SELLERS (4)

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 (formerly LIT 3442) FANTASY AND SCIENCE FICTION (4)

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 (formerly LIT 3311) THE BIBLE AS LITERATURE (4)

Major emphasis on literary types, literary personalities of the Old and

New Testaments, and Biblical archetypes of British and American literary classics.

LIT 3383 (formerly LIT 3414) THE IMAGE OF WOMEN IN LITERATURE (4)

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 (formerly LIT 3431) RELIGIOUS AND EXISTENTIAL THEMES (4)

Theological and philosophical ideas, allusions, and symbols in the writings of Dostoevsky, Nietzsche, Mann, Joyce, Eliot, Camus, Sartre, and others.

LIT 3451 (formerly LIT 3446) LITERATURE AND THE OCCULT (4)

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 3931 (formerly LIT 3930) 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 (formerly ENG 4204) THEORY OF FICTION (4)

Intensive study of the genres and varieties of fiction to ascertain the theoretical and technical problems involved in the work of fiction.

LIT 4032 (formerly ENG 4742) TWENTIETH-CENTURY BRITISH AND AMERICAN POETRY (4)

Study of selected Modern British and American Poets from Hopkins to the present, with attention to poetic theory.

LIT 4043 (formerly ENG 4464) CONTEMPORARY DRAMA (4)

A study of recent forms and themes in drama from Theatre of the Absurd to the present, including representative works by Brecht, Beckett, Ionesco, Genet, Pinter, Albee, Weiss, and Shepard, among others.

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 for different topics.

REA 0105 DEVELOPMENTAL READING (2)

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 3505 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.

GRADUATE COURSES

AML 6017 (formerly AML 6132) STUDIES IN AMERICAN LITERATURE TO 1860 (3)

PR: Graduate standing. Selected focused studies in American literature before 1860: the Puritans, Franklin, Cooper, Irving, Poe, Emerson, Hawthorne, Melville, and others. May be retaken with different subject matter three times.

AML 6018 (formerly AML 6137) STUDIES IN AMERICAN LITERATURE 1860 to 1920 (3)

PR: Graduate standing. Selected focused studies in American literature: Whitman, Twain, Howells, James, Crane, Dreiser, and others. May be retaken with different subject matter three times.

AML 6027 (formerly AML 6138) STUDIES IN MODERN AMERICAN LITERATURE (3)

PR: Graduate standing. Modern American drama, poetry, fiction, and literary criticism; authors include Faulkner, Hemingway, Fitzgerald, O'Neill, Anderson, Wolfe, Cummings, Frost, and Eliot. May be retaken with different subject matter three times.

- ENG 6009 (formerly ENG 6062) BIBLIOGRAPHY FOR ENGLISH STUDIES** (1)
PR: Graduate standing. Detailed study of bibliographies of cultural milieus, genres, periods, and authors.
- ENG 6017 (formerly ENG 6837) STUDIES IN STYLE** (3)
(Advanced Composition for Teachers)
PR: Graduate standing. Poetics, rhetoric, dramatic style, prose style, short fiction, the novel, and the essay. May be retaken with different subject matter three times.
- ENG 6018 (formerly ENG 6832) SCHOLARSHIP AND CRITICISM** (3)
PR: Graduate standing. Selected focused study of research approaches to English. May be retaken with different subject matter once.
- ENG 6916 (formerly ENG 6917) DIRECTED RESEARCH** (var.)
PR: GR. Master's level. Repeatable. (S/U only.)
- ENG 6939 (formerly ENG 6937) GRADUATE SEMINAR IN ENGLISH** (3)
PR: Consent of graduate adviser. May be retaken with different subject matter to a maximum of six hours.
- ENG 6971 THESIS: MASTER'S** (var.)
Repeatable. (S/U only.)
- ENG 7916 (formerly ENG 7917) DIRECTED RESEARCH** (var.)
PR: GR. Ph.D. level. Repeatable. (S/U only.)
- ENG 7939 (formerly ENG 7938) DOCTORAL SEMINAR** (3)
PR: Admission to Ph.D. Program. This seminar provides intensive small-group discussion as well as shared and individual guided research in a student's area of doctoral specialty. Repeatable up to six credit hours.
- ENG 7980 DISSERTATION: DOCTORAL** (var.)
PR: Must be admitted to Doctoral Candidacy. Repeatable. (S/U only.)
- ENL 6206 (formerly ENL 6304) STUDIES IN OLD ENGLISH** (3)
PR: Graduate standing. A study of Old English language, prose style, poetry. May be retaken with different subject matter three times.
- ENL 6216 (formerly ENL 6315) STUDIES IN MIDDLE ENGLISH** (3)
PR: Graduate standing. Selected focused studies in language and in various authors and writings, 1100-1500: Chaucer, the *Pearl* poet, *Everyman*, ballads, drama. May be retaken with different subject matter three times.
- ENL 6227 (formerly ENL 6333) STUDIES IN SIXTEENTH-CENTURY BRITISH LITERATURE** (3)
PR: Graduate standing. Selected focused studies in sixteenth-century British literature; Shakespeare, Sidney, Spenser, Marlowe, and others. May be retaken with different subject matter three times.
- ENL 6228 (formerly ENL 6349) STUDIES IN SEVENTEENTH-CENTURY BRITISH LITERATURE** (3)
PR: Graduate standing. Selected focused studies in British literature, 1600-1660: Bacon, Donne, Jonson, Herbert, Milton, and others. May be retaken with different subject matter three times.
- ENL 6236 (formerly ENL 6392) STUDIES IN RESTORATION AND EIGHTEENTH-CENTURY BRITISH LITERATURE** (3)
PR: Graduate standing. Selected focused studies in Restoration-Eighteenth-Century British literature: Dryden, Defoe, Pope, Swift, Fielding, Sheridan, Johnson, Boswell, and others. May be retaken with different subject matter three times.
- ENL 6246 (formerly ENL 6407) STUDIES OF THE ENGLISH ROMANTIC PERIOD** (3)
PR: Graduate standing. A study of pre-Romantic and Romantic prose, fiction, nonfiction, and poetry. May be retaken with different subject matter three times.
- ENL 6256 (formerly ENL 6418) STUDIES IN VICTORIAN LITERATURE** (3)
PR: Graduate standing. A study of Victorian poetry, Victorian fiction, Victorian non-fictional prose, and Victorian drama. May be retaken with different subject matter three times.
- ENL 6276 (formerly ENL 6447) STUDIES IN MODERN BRITISH LITERATURE** (3)
PR: Graduate standing. A study of Irish and English drama, the modern novel, poetry, criticism, and the short story. May be retaken with different subject matter three times.
- LAE 6375 PROBLEMS IN COLLEGE ENGLISH INSTRUCTION: COMPOSITION** (3)
PR: Graduate standing. An examination of the objectives of freshman English and an investigation of current techniques for achieving those objectives, emphasizing the problems of developing critical reading

and the techniques of expository writing at the college level.

- LAE 6389 PROBLEMS IN COLLEGE ENGLISH INSTRUCTION: LITERATURE** (3)
PR: Graduate standing. A course that allows the prospective college English teacher to experiment with teaching techniques that will determine the most effective ways to teach literature and that will teach college English teachers the variety and importance of literary techniques and their relevance to subject matter.
- LAE 7376 PROBLEMS IN ADVANCED ENGLISH INSTRUCTION OF COMPOSITION** (3)
PR: Admission to the Ph.D. program in English. Apprenticed, closely supervised study of and practice in teaching of college and university advanced composition. Student may elect to work with nonfiction, fiction, or poetry.
- LAE 7390 PROBLEMS IN ADVANCED ENGLISH INSTRUCTION AND SCHOLARLY RESEARCH** (3)
PR: Ph.D. Candidacy. This course provides closely supervised training in upper-level college English instruction and experience with professional research. Experience in the lecture, seminar discussion, examining, evaluation, conferences, directing undergraduate research, course development, use of secondary materials, publication procedure, and collation.
- LIN 6107 (formerly ENG 6516) STUDIES IN ENGLISH LANGUAGE AND LINGUISTICS** (3)
PR: LIN 4100 and LIN 4370, or CI. An advanced study of the origin, historical development, and contemporary structure of British and American English in its social and cultural milieu, with emphasis upon modern techniques for linguistic analysis and description.
- LIT 6096 (formerly LIT 6167) STUDIES IN CONTEMPORARY LITERATURE** (3)
PR: Graduate standing. Drama, poetry, fiction, and literary criticism; authors to be studied include Ionesco, Thomas, Miller, T. Williams, Beckett, Camus, and Burgess. May be retaken with different subject matter three times.
- LIT 6105 (formerly LIT 6208) STUDIES IN CONTINENTAL LITERATURE** (3)
PR: Graduate standing. General areas include the Renaissance, the Enlightenment, the Novel in Europe, the Romantic Movement on the Continent, and Classical Comedy. May be retaken with different subject matter three times.
- LIT 6934 SELECTED TOPICS IN ENGLISH STUDIES** (1-6)
PR: Graduate standing. Current topics offered on a rotating basis include The Nature of Tragedy; The Nature of Comedy and Satire; The Nature of Romanticism and Classicism; and The Nature of Myth, Allegory, and Symbolism. Other topics will be added in accordance with student demand and instructor interest.

HUMANITIES

Chairperson: T. B. Hoffman; *Professors:* T. B. Hoffman, H. Juergensen, G. S. Kashdin, E. M. MacKay (Emeritus), D. Rutenberg, L. L. Shackson (Emeritus); *Associate Professors:* C. B. Cooper, S. L. Gaggi, H. B. Gowen, A. J. Sparks, S. A. Zylstra; *Assistant Professor:* J. R. Spillane.

UNDERGRADUATE COURSES

- HUM 2930 SELECTED TOPICS: AMERICAN MOSAIC** (4)
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 and 5000 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 3236 STUDIES IN CULTURE: THE RENAISSANCE AND THE NINETEENTH CENTURY** (3)
Analyses of selected fiction, drama, painting, architecture, music, and other art forms. Typical course focus is on painting and music.

- HUM 3251 STUDIES IN CULTURE: THE TWENTIETH CENTURY** (3)
Analyses of selected works of 20th Century art, primarily emphasizing film, with secondary emphasis on painting and fiction.
- HUM 3271, 3273 THE CULTURE OF THE EAST AND WEST** (4,4)
Masterpieces of music, visual arts, theatre, literature, and philosophy in varying cultural and historical situations.
- HUM 3580 THE 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 4433 CLASSICAL ARTS AND LETTERS** (4)
PR: Sophomore standing or CI. Case studies in the arts and letters of the ancient world.
- HUM 4434 CLASSICAL ARTS AND LETTERS** (4)
PR: Sophomore standing or CI. Case studies in the arts and letters of the ancient world.
- HUM 4435 MEDIEVAL ARTS AND LETTERS** (4)
PR: Sophomore standing or CI. Case studies in the arts and letters of the middle ages.
- HUM 4436 MEDIEVAL ARTS AND LETTERS** (4)
PR: Sophomore standing or CI. Case studies in the arts and letters of the middle ages.
- HUM 4437 RENAISSANCE ARTS AND LETTERS** (4)
PR: Sophomore standing or CI. Case studies in the arts and letters of the Renaissance.
- HUM 4438 RENAISSANCE ARTS AND LETTERS** (4)
PR: Sophomore standing or CI. Case studies in the arts and letters of the Renaissance.
- HUM 4440 THE ENLIGHTENMENT** (4)
PR: Sophomore standing or CI. Case studies in the arts and letters of the Enlightenment.
- HUM 4442 ARTS AND LETTERS OF THE ROMANTIC PERIOD** (4)
PR: Sophomore standing or CI. Case studies in the arts and letters of the romantic period.
- HUM 4444 NINETEENTH CENTURY ARTS AND LETTERS** (4)
PR: Sophomore standing or CI. Case studies in the arts and letters of the nineteenth century.
- HUM 4471, 4473 TWENTIETH-CENTURY ARTS AND LETTERS** (4,4)
PR: Sophomore standing or CI. Case studies in the arts and letters of the twentieth century.
- HUM 4813 HUMANITIES: THEORY AND PRACTICE** (2)
PR: Humanities major or CI. Study of theory and methodology of interdisciplinary Humanities, including workshop in which student begins planning Senior paper. (S/U only.)
- HUM 4905 DIRECTED STUDY** (1-4)
Specialized individual study determined by the student's needs and interests.
- HUM 4906 SENIOR ESSAY** (3)
Problems in the interrelationships among the fine arts and the natural, social and behavioral sciences. A senior essay for humanities majors.
- 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 1920's. Topics will vary; course may be repeated for credit with change of content.

GRADUATE COURSES

- HUM 5412 HUMANITIES IN THE ORIENT: INDIA** (4)
Examples from the arts and letters of India and the relationship of these arts to the Hindu and Buddhist philosophy-religions.
- HUM 5414 HUMANITIES IN THE ORIENT: CHINA** (4)
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 5415 HUMANITIES IN THE ORIENT: JAPAN** (4)
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 5452, 5456 HUMANITIES IN AMERICA** (4,4)
Case studies in the arts and letters of the United States.

- HUM 5465 LATIN AMERICAN ARTS AND LETTERS** (4)
Analysis of selected Latin American works of art in their cultural context.
- HUM 5485 SELECTED NON-WESTERN HUMANITIES** (4)
Materials chosen from arts and letters of Asia, Oceania, and the Middle East. May be repeated for credit with change of content.
- HUM 6475 STUDIES IN CONTEMPORARY ARTS AND LETTERS** (3)
Concentration on major artists and recent trends.
- HUM 6493 STUDIES IN CLASSICAL ARTS AND LETTERS** (3)
PR: Graduate standing. Examples from the arts and letters of ancient Greece and their relationships to Aegean myths, religions and philosophies. Classical Greek influences on later cultures.
- HUM 6494 STUDIES IN MEDIEVAL ARTS AND LETTERS** (3)
PR: Graduate standing. Studies in medieval philosophies, visual arts, music, literature and architecture, and their inter-relationships.
- HUM 6495 STUDIES IN RENAISSANCE ARTS AND LETTERS** (3)
PR: Graduate standing. Masterpieces and major artists of the Renaissance in Continental Europe and England.
- HUM 6496 STUDIES IN ENLIGHTENMENT ARTS AND LETTERS** (3)
PR: Graduate standing. Studies in painting, sculpture, music, literature, and architecture in relation to philosophical determinism and political absolutism.
- HUM 6497 STUDIES IN NINETEENTH CENTURY ARTS AND LETTERS** (3)
PR: Graduate standing. Examples from the arts and letters of the nineteenth century, their relationship to philosophical, social, and historical developments, and to the arts and letters of the twentieth century.
- HUM 6909 INDEPENDENT STUDY** (var.)
Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)
- HUM 6915 DIRECTED RESEARCH** (var.)
PR: GR. Master's level. Repeatable. (S/U only.)
- HUM 6934 SELECTED TOPICS IN HUMANITIES** (1-3)
Each topic is a course of study in a subject not covered by a regular course. May be repeated for credit with change of content.

LANGUAGE

Director: R.A. Preto-Rodas; *Professors:* C.W. Capsas, E.F. McLean, E.J. Neugaard, R.A. Preto-Rodas, R.A. Stelzmann; *Associate Professors:* C.J. Cano, R.A. Cherry, Jr., W.H. Grothmann, W.R. Hampton, D. Ierardo, V.E. Peppard, D.P. Schenck, C.E. Scruggs, J.C. Tatum; *Assistant Professors:* M. Esformes, A. Héchiche.

General Foreign Languages

UNDERGRADUATE COURSES

- FOL 3100 GENERAL FOREIGN LANGUAGE I** (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 in professional translation.
- FOL 4200 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.

GRADUATE COURSES

- FOL 5906 DIRECTED STUDY** (1-3)
PR: FOL 4200 or equivalent.

Arabic

UNDERGRADUATE COURSES

- ARA 3110 MODERN ARABIC I** (4)
An intensive study of basic skills: pronunciation, listening comprehension, speaking and some composition.
- ARA 3111 MODERN ARABIC II** (4)
PR: ARA 3110 or its equivalent. A continuation of ARA 3110. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

French

UNDERGRADUATE COURSES

Courses in Translation

- FRT 3110 HIGHLIGHTS OF FRENCH LITERATURE IN TRANSLATION** (3)
A study in *English* of French life through writers since the revolution. Elective for students in all departments.

- FRE 1060 FRENCH FOR READING** (3)
Designed to provide a reading ability in French that will support research in other disciplines. Primarily for graduate students.
- FRE 1100 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 1101 BEGINNING FRENCH II** (4)
PR: FRE 1100 or equivalent. A continuation of FRE 1100.
- FRE 2200 INTERMEDIATE FRENCH I** (3)
PR: FRE 1101 or equivalent. A review of the basic structure of French. May be taken concurrently with FRE 2201.
- FRE 2201 INTERMEDIATE FRENCH II** (3)
PR: FRE 1101 or equivalent. Readings in French on the intermediate level. May be taken concurrently with FRE 2200.
- FRE 3240 CONVERSATION I** (4)
PR: FRE 1101. For development of basic conversational skills.
- FRE 3420 COMPOSITION I** (3)
A fundamental composition course for students who have completed FRE 2200 or FRE 2201.
- 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 4241 CONVERSATION II** (4)
PR: FRE 3240 or equivalent proficiency. Conversation practice with concentration on current idiomatic usage. May be repeated for a total of 8 hours.
- FRE 4421 COMPOSITION II** (3)
Continuation of French composition. This course is designed to follow FRE 3420.
- FRE 4905 DIRECTED STUDY** (1-3)
Departmental approval required.
- FRE 4930 SELECTED TOPICS** (1-3)
Study of an author, movement, or theme.
- FRT 3110 See above—COURSES IN TRANSLATION**
- 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.

GRADUATE COURSES

- FLE 6829 GRADUATE INSTRUCTION METHODS** (1-4)
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of four credits per student. (S/U only.)
- FRE 5422 ADVANCED WRITTEN EXPRESSION** (3)
PR: FRE 4421, or equivalent. Course is designed to give advanced training in free composition in French.
- FRE 5564 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.
- FRE 6910 DIRECTED RESEARCH** (var.)
PR: GR. Master's level. Repeatable. (S/U only.)
- FRE 6971 THESIS: MASTER'S** (var.)
Repeatable. (S/U only.)
- 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 5283 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 5410 LITERATURE OF THE MIDDLE AGES** (3)
PR: FRW 4100 or 4101. Major genres, including eipis, Arthurian romances, drama, and lyric poetry. Reading in modern French translation.
- FRW 5420 LITERATURE OF THE RENAISSANCE** (3)
PR: FRW 4100 or 4101. A study of Renaissance French humanism including Rabelais, Montaigne, and the Pleiade poets.
- FRW 5440 18TH CENTURY LITERATURE** (3)
PR: FRW 4100. The classical tradition and the new currents of thought in the Age of Enlightenment.
- FRW 5530 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 AND EARLY REALISM** (3)
PR: FRW 4101. A study of the romantic and early realistic movements with emphasis on Lamartine, Vigny, Musset, Hugo, and Balzac.
- FRW 5558 NATURALISM AND REALISM** (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.
- FRW 6319 SEMINAR ON CLASSICAL DRAMA** (3)
PR: Graduate standing. A study of the works of Corneille, Racine, or Moliere.
- FRW 6405 OLD FRENCH** (3)
PR: Graduate standing. An introduction to the Old French language and literature. Readings from representative texts. Required of all M.A. candidates.
- FRW 6411 MEDIEVAL LITERATURE** (3)
PR: Graduate standing. A study in depth of Old French literature of the Middle Ages.
- FRW 6938 GRADUATE SEMINAR** (3)
Topics vary. May be repeated.

German

UNDERGRADUATE COURSES

Courses in Translation

- GET 3111 HIGHLIGHTS OF GERMAN LITERATURE IN TRANSLATION** (3)
An analysis in *English* based on translations of the most significant

works of the middle ages, of Luther, Grimmshausen, Lessing, Goethe, Kant, Hegel, Nietzsche, Mann, Heidegger, Kafka, Hesse, and contemporary writers of current interest. Elective for students in all departments.

- GER 1060 GERMAN FOR READING** (3)
Designed to provide a reading ability in German that will support research in other disciplines.
- GER 1100 BEGINNING GERMAN I** (4)
Development of basic skills in listening and reading comprehension, speaking and writing of German.
- GER 1101 BEGINNING GERMAN II** (4)
PR: GER 1100 or equivalent. Continued development of basic skills in listening and reading comprehension, speaking and writing of German.
- GER 2200 INTERMEDIATE GERMAN I** (3)
PR: GER 1101 or equivalent. A review of the basic structure of spoken and written German. May be taken concurrently with GER 2201.
- GER 2201 INTERMEDIATE GERMAN II** (3)
PR: GER 1101 or equivalent. Readings in German on the intermediate level. May be taken concurrently with GER 2200.
- GER 3240 CONVERSATION I** (3)
PR: GER 1101. 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 4241 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.
- GET 3111 See above—COURSES IN TRANSLATION**
- 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.

GRADUATE COURSES

- GER 5845 HISTORY OF THE GERMAN LANGUAGE** (3)
A diachronic approach to the study of the German language. The course traces the history and development of the language from Indo-European through Germanic, Old, Middle, and New High German.
- GER 6908 INDEPENDENT STUDY** (var.)
Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)
- GEW 5485 20TH CENTURY LITERATURE TO 1945** (3)
A study of major styles in German literature from 1900 to WWII 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, Dürrenmatt, Böll, Uwe, Johnson, Grass, Aichinger, Eich Enzensberger, Bachmann.
- GEW 5515 THE ENLIGHTENMENT** (3)
Selected dramas and critical writings by Lessing, Wieland, Kant.
- GEW 5541 ROMANTICISM** (3)
Jenaer circle and Heidelberger circle; the late romantic period, the writers between Classicism and Romanticism.
- GEW 5551 REALISM** (3)
Selected works by Grillparzer, Grabbe, Büchner, Hebbel, Heine, Immerman, Stifter, Keller, Meyer, Storm, Raabe, Hülshoff, and Morike.

- GEW 5600 GOETHE** (3)
Selected novels, poems: Werther, Wahlverwandschaften, Wilhelm Meister, Westöstlicher Divan.
- GEW 5603 FAUST** (3)
Sources, form, content, and literary significance of Urfaust and Faust.
- GEW 5610 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.
- GEW 6915 DIRECTED RESEARCH** (var.)
PR: GR. Master's level. Repeatable. (S/U only.)
- GEW 6934 SELECTED TOPICS** (1-3)
Study of an author, movement or theme.

Hebrew

UNDERGRADUATE COURSES

- HEB 3110 MODERN HEBREW I** (4)
An intensive study of basic skills: pronunciation, listening, comprehension, speaking, and some composition.
- HEB 3111 MODERN HEBREW II** (4)
PR: HEB 3110 or equivalent. A continuation of HEB 3110. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

Italian

UNDERGRADUATE COURSES

Courses in Translation

- ITT 3110 ITALIAN CLASSICS IN TRANSLATION** (3)
The works of the fathers of the Renaissance—Dante, Petrarch, Boccaccio, Machiavelli, Castiglione and others—are read and discussed in English.
- ITA 1100 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 1101 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 1101 or equivalent. Readings in Italian on the elementary level. A review of the basic structure of spoken and written Italian.
- ITA 2201 INTERMEDIATE ITALIAN II** (3)
PR: ITA 1101 or equivalent. Readings in Italian on the intermediate level. May be taken concurrently with ITA 2200.
- 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 3500 ITALIAN CIVILIZATION** (3)
Readings and discussion on the cultural history of Italy.
- ITA 3560 ITALIAN CINEMA AND LITERATURE** (3)
A parallel study of fiction and film from post-war Neo-realism to the present time. This course will be conducted in English with film viewing and lectures.
- 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.

- ITA 4930 SELECTED TOPICS** (1-3)
Study of an author, movement, or theme.
- ITT 3110 See above—COURSES IN TRANSLATION**
- 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.

GRADUATE COURSES

- ITW 6910 DIRECTED RESEARCH** (var.)
PR: GR. Master's level. Repeatable. (S/U only.)

Portuguese

UNDERGRADUATE COURSES

- POR 3210 INTENSIVE PORTUGUESE** (4)
PR: 2 years of another Romance language or Latin, or CI. An accelerated study of the fundamentals of listening, speaking, reading, and writing.
- POR 3470 OVERSEAS STUDY** (1-6)
PR: POR 3210. An intensive study-travel program in a Portuguese-speaking country. Prior departmental approval and early registration are required.
- POR 3500 THE LUSO-BRAZILIAN WORLD** (3)
An introduction to the culture and civilization of Portugal and Brazil.
- POW 4905 DIRECTED STUDY** (1-3)
Departmental approval required. May be repeated.

GRADUATE COURSES

- POW 6910 DIRECTED RESEARCH** (var.)
PR: GR. Master's level. Repeatable. (S/U only.)

Romance

GRADUATE COURSES

- FOW 6800 BIBLIOGRAPHY** (1)
PR: Graduate standing. Research methods. Includes familiarity with major journals and bibliographies, with a practicum. (S/U only.)

Russian

UNDERGRADUATE COURSES

Courses in Translation

- RUT 3110 RUSSIAN CLASSICS IN TRANSLATION** (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** (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.

- RUS 1100 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 1101 BEGINNING RUSSIAN II** (4)
PR: RUS 1100 or CI. The second course in the study of elementary Russian. Emphasis on the development of basic skills in comprehension, speaking, and reading.
- RUS 3400 CONVERSATION AND COMPOSITION I** (4)
PR: First year Russian or equivalent. Development of basic skills in conversation, composition, and reading.
- RUS 3500 RUSSIAN CIVILIZATION** (3)
A survey of the cultural history of Russia.
- RUS 4401 CONVERSATION AND COMPOSITION II** (4)
PR: Previous course in series or equivalent. Continuation of RUS 3400.
- RUS 4900 SELECTED TOPICS** (1-3)
Study of an author, movement, or theme.
- RUS 4905 DIRECTED STUDY** (1-3)
Departmental approval required.
- RUT 3110 See above—COURSES IN TRANSLATION**
- RUT 3111 See above—COURSES IN TRANSLATION**
- RUW 4624 DOSTOEVSKY** (3)
Reading and discussion of the major works of Dostoevsky.

Spanish

UNDERGRADUATE COURSES

Courses in Translation

- SPT 3110 SPANISH MASTERPIECES IN TRANSLATION** (3)
Outstanding literary works of Spain, in *English*. Open to all non-majors.
- SPT 3131 SPANISH AMERICAN LITERATURE IN TRANSLATION** (3)
Outstanding works of Spanish America, in *English*. Open to all non-majors.

- SPN 1100 BEGINNING SPANISH I** (4)
Development of basic skills in listening and reading comprehension, speaking and writing of Spanish.
- SPN 1101 BEGINNING SPANISH II** (4)
PR: SPN 1100 or equivalent. Continued development of basic skills in listening and reading comprehension, speaking and writing of Spanish.
- SPN 2200 INTERMEDIATE SPANISH I** (3)
PR: SPN 1101 or equivalent. A review of the basic structure of spoken and written Spanish. May be taken concurrently with SPN 2201.
- SPN 2201 INTERMEDIATE SPANISH II** (3)
PR: SPN 1101 or equivalent. Readings in Spanish on the intermediate level. May be taken concurrently with SPN 2200.
- SPN 2240 CONVERSATION I** (3)
PR: SPN 1101. For development of basic conversational skills.
- SPN 3241 CONVERSATION II** (3)
PR: SPN 2240 or equivalent. To improve fluency in spoken Spanish.
- SPN 3300 COMPOSITION** (4)
PR: SPN 2200-2201. A study of syntax, grammar and writing.
- SPN 3470 OVERSEAS STUDY** (1-6)
PR: SPN 1101. An intensive study-travel program in a Spanish-speaking country. Prior departmental approval and early registration are required.
- SPN 3500 SPANISH CIVILIZATION** (3)
PR: SPN 1101. 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** (4)
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.
- SPT 3110 See above—COURSES IN TRANSLATION**
- SPT 3131 See above—COURSES IN TRANSLATION**
- SPW 3200 INTRODUCTION TO HISPANIC LITERATURE** (3)
PR: SPN 2201 or equivalent. Fiction, drama, poetry; emphasis on the techniques of reading literature for critical analysis.

- SPW 4100 SURVEY OF SPANISH LITERATURE I** (3)
PR: SPW 3200 or equivalent. A study of Spanish literature from its origins through the 17th century.
- SPW 4101 SURVEY OF SPANISH LITERATURE II** (3)
PR: SPW 3200 or equivalent. A study of the later periods of Spanish literature.
- SPW 4130 SURVEY OF SPANISH-AMERICAN LITERATURE I** (3)
PR: SPW 3200 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 3200 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.

GRADUATE COURSES

- SPN 5567 CONTEMPORARY SPAIN** (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 5790 PHONOLOGY AND PHONETICS** (3)
PR: SPN 3300. A study of the Spanish sound system.
- SPN 5845 HISTORY OF THE SPANISH LANGUAGE** (3)
Traces the development of Spanish from its Latin origins to the present.
- SPN 6940 GRADUATE INSTRUCTION METHODS** (1-3)
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of three credits per student. (S/U only.)
- SPW 5245 THE PICARESQUE NOVEL** (3)
Realistic prose-fiction of the Renaissance and Golden Age.
- SPW 5313 GOLDEN AGE DRAMA** (3)
PR: SPW 4100. Lope de Vega, Alarcon, Tirso, Calderon, and others.
- SPW 5400 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 5482 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 THE QUIJOTE** (3)
Cervantes' masterpiece *Don Quijote de la Mancha*.
- SPW 5725 GENERATION OF 1898** (3)
PR: SPW 4101. The major figures of the period and their main followers.
- SPW 5726 GENERATION OF 1927** (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 literatures.
- SPW 5934 SELECTED TOPICS** (3)
PR: Upper-level or graduate standing. Study of an author, movement, or theme.
- SPW 6910 DIRECTED RESEARCH** (var.)
PR: GR. Master's level. Repeatable. (S/U only.)
- SPW 6936 GRADUATE SEMINAR** (3)
Topics vary. May be repeated.
- SPW 6971 THESIS: MASTER'S** (var.)
Repeatable. (S/U only.)

LIBERAL STUDIES

Program Director: J.B. Camp.

UNDERGRADUATE COURSES

- IDS 3300 STRUCTURES OF KNOWLEDGE AND KNOWING** (4)
Distinguishing the modalities of human knowledge and awareness as reflected in the classic distinctions: sensory/motor/emotive; normative/descriptive/non-rational; logical/mathematical; ethical/physical/moral; qualitative/quantitative; mind/will/body; substance and function.
- IDS 3310 PROGRESS AND UTOPIA** (4)
Examination of the modern backgrounds of contemporary awareness: particularly the development of historical awareness of ourselves as scientifically, technologically, and socially "progressive"—in relation to both utopic and non-utopic futures.
- IDS 3320 FREEDOM AND THE SELF** (4)
Analysis of the idea of freedom in relation to the idea of self, involving comparative treatment of the variety of standpoints of conceiving the individual personality in relation to the social context.
- IDS 4344 SEMINAR: MAN AND NATURE** (3)
PR: Senior standing or CI. Examination of aspects of contemporary theories of nature and man deriving in the liberal arts, to the purpose of developing a general assessment of contemporary knowledge and methods of knowing.
- IDS 4930 SELECTED TOPICS** (1-4)
Course content determined by students' and instructor's interests and needs.

LINGUISTICS

Professors: R.W. Cole, R.C. O'Hara; Associate Professors: J.C. Cafilisch III, J.B. Camp; Assistant Professor: C.J. Cargill-Power.

UNDERGRADUATE COURSES

- ESL 1383 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.
- ESL 1384 ENGLISH FOR FOREIGN STUDENTS II** (3)
PR: ESL 1383 or CI. Intensive study and drill in American English pronunciation and listening comprehension. Emphasis on diction and speaking skills.
- 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** (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 4377 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 4701 PSYCHOLINGUISTICS** (3)
PR: LIN 3010. The nature of linguistic structure and its correlates in behavior and perception. Examination of the hypotheses of Whorf, Chomsky, and others.

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 non-verbal 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 student's needs and instructor's interest and may range over the entire field of linguistics.

GRADUATE COURSES**LIN 5231 COMMUNICATION SCIENCE: THEORY AND PRACTICUM (3)**

PR: LIN 2200 or CI. Intensified instruction in neuroanatomy of oral-nasal cavities, ear, pharyngeal, laryngeal, and thoracic areas. Includes topics in phonological theory such as feature composition and markedness. Practice in IPA and identification of segments through Sona-Graph work.

LIN 5245 EXPERIMENTAL PHONETICS (3)

PR: LIN 2200 or CI. Intensified training in auditory discrimination of the sounds of American English. Detailed use of research findings, instruments, and methodologies in the laboratory study of normal speech. Development of phonetic skills of discrimination and reproduction of speech sounds.

LIN 6081 INTRODUCTION TO GRADUATE STUDY IN LINGUISTICS (3)

Required of all M.A. candidates. An introduction to the aims and methodologies of linguistics as a graduate discipline: The field of linguistics, its sub-disciplines, and its relationship to adjacent arts and sciences; bibliographical resources; methods of research and research writing; and a brief survey of the historical development of linguistics and current issues in the field.

LIN 6110 DIRECTED RESEARCH (var.)

PR: GR. Master's level. Repeatable. (S/U only.)

LIN 6117 HISTORY OF LINGUISTIC THOUGHT (3)

Survey of the development of language study in the West from Antiquity to the present: Classical and medieval theories of language; origins of traditional grammar; rationalist linguistic theory and philosophical grammar, and an examination of the origin of contemporary linguistic controversies.

LIN 6128 HISTORICAL LINGUISTICS (3)

An advanced survey of the principles and methodology of historical linguistics.

LIN 6139 TOPICS IN THEORETICAL LINGUISTICS (3)

Offerings will include current issues in any area of linguistic theory.

LIN 6146 COMPARATIVE LINGUISTICS (3)

The principles and methodology of comparative linguistics, focusing upon a major Indo-European subfamily, such as Romance, Germanic, or Balto-Slavic.

LIN 6233 ADVANCED PHONETICS (3)

PR: LIN 5231 or equivalent. Intensified training in close phonetic transcription. Work on dialects, intonation, distinctive feature theory and acoustic phonetics.

LIN 6240 PHONOLOGICAL DESCRIPTION (3)

Analysis of the phonological component of a grammar, its role and formal structures. The generative model is compared to taxonomic descriptions. Theory and data-solution problems.

LIN 6377 THE STRUCTURE OF A SPECIFIC LANGUAGE (3)

Analysis of the linguistic structures of both common and uncommon languages. May be repeated up to six credit hours with change in content/title.

LIN 6380 SYNTACTIC DESCRIPTION (3)

Analysis of syntactic descriptions of various languages through data-solution problems in co-occurrence relations, agreement, permutation, conjoining, and embedding. Feature grammars and other models are discussed.

LIN 6405 CONTRASTIVE ANALYSIS (3)

PR: LIN 4377. Comparison and contrast of the structures of American English with corresponding structures in selected foreign languages.

LIN 6407 APPLIED LINGUISTICS (3)

Analysis of the phonological, morphological and syntactic features of English as a basis for linguistic application to problems of English language acquisition by non-native speakers.

LIN 6425 FORMAL STYLISTICS (3)

Studies in the relationship between the development of language study and literary criticism; developments in modern linguistic theory and their application to problems of aesthetics, literary structure, and style.

LIN 6435 FIELD METHODS (3)

PR: LIN 4040 and LIN 5231. An introduction to the techniques of gathering language data in the field and to make an analysis of such data. Native informants are brought on campus to replicate the field experience; students will become familiar with equipment and tools used by linguists in the field.

LIN 6601 SOCIOLINGUISTICS (3)

Detailed analysis of the phenomenon of language variation with emphasis upon the research methodology of sociolinguistics and the implications of its findings for current linguistic theory.

LIN 6715 LANGUAGE ACQUISITION (3)

PR: LIN 3010, LIN 4377 or CI. A survey of current research and theory in the processes of normal language acquisition and development.

LIN 6810 SEMIOTICS (3)

PR: CI. Introduction to kinesics and paralinguistics; the linguistic structure of gesture, proxemics, and other significant areas of nonverbal communication and signaling behavior.

LIN 6820 STUDIES IN SEMANTICS (3)

Selected problems in the area of meaning and the relationship between linguistic structure and cognition. Mappings of presupposition, kinship fields, emotive concepts, and other problems are surveyed. Theories such as Fodor-Katz-Chomsky, Ross-Lakeoff-McCawley, and others are contrasted.

LIN 6908 INDEPENDENT STUDY (var.)

Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

LIN 6932 SELECTED TOPICS (1-4)

Content will depend upon instructor's interests and students' needs. Such topics as neurolinguistics, bilingualism, and discourse analysis may be taught.

LIN 6940 GRADUATE INSTRUCTION METHODS (1-4)

Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of four credits per student. (S/U only.)

LIN 6971 THESIS: MASTER'S (var.)

Repeatable. (S/U only.)

PHI 6226 LANGUAGE AND NATURE (3)

A study of the development of language as an instrument for ordering human consciousness in terms of European ideas of Nature, with special emphasis upon the dialectic, relational, and popular modalities of conceptual representation.

PHI 6228 LANGUAGE AND LIMIT (3)

Introduction to the principles of the logic of natural languages including semantic analysis of logical relations between selected syntactic structures (active/passive, raising, case relations, etc.); logical dominance in semantic structure; application of logic to questions of linguistic meta-theory.

TSL 6371 METHODS OF TEACHING ENGLISH AS A SECOND LANGUAGE I (3)

Analysis of the methods of teaching English pronunciation and structure to speakers of other languages.

TSL 6372 METHODS OF TEACHING ENGLISH AS A SECOND LANGUAGE II (3)

PR: TSL 6371. Analysis of the methods of teaching English reading and listening comprehension and composition to speakers of other languages.

TSL 6945 INTERNSHIP (1-6)

PR: TSL 6371 and TSL 6372. Required of all candidates for the M.A. degree in TESL. Supervised teaching of English as a second language to non-native speakers at appropriate levels and settings. May be repeated up to six credit hours. (S/U only.)

MASS COMMUNICATIONS

Chairperson: E.L. Sasser; *Professors:* M. Garcia, W.E. Griscti, R.L. Kerns, M. Lucoff, E.L. Sasser; *Associate Professors:* W.G. Fudge, L.

Stalnaker Jr; *Assistant Professors*: D.S. Bagley III, T.M. Counts, D.L. Dickerson, R.W. Friedman, J.L. Ghiotto, N.C. James, R.A. Logan, G.H. Meyer, W.F. Moyse, D.E. Vogel; *Lecturers*: K. Storr, D. Togie Jr; *Professor Emeritus*: A.M. Sanderson; *Courtesy Professor*: H.J. Skornia; *Courtesy Lecturer*: D.K. Baldwin.

UNDERGRADUATE COURSES

- 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 3101 ADVERTISING COPY** (3)
PR: ADV 3000, ECO 2023 or MAR 3023. 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: ADV 3000. 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 4801 ADVERTISING CAMPAIGNS** (3)
PR: ADV 3101, ADV 3300, MAR 3613 or MAR 4403 or MAR 4203 or MAR 4243. 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: Senior standing and 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 non-verbal 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 3201 THE FILM AS MASS COMMUNICATION III: WORKSHOP** (3)
PR: FIL 3200. Practical exercises, demonstrations, and experiences in applying material covered in FIL 3004 and FIL 3200.
- FIL 4205 ADVANCED CAMERA TECHNIQUES** (3)
PR: FIL 3004. Advanced camera technology, professional procedures, emulsion selection, color control, studio and location shooting, laboratory methods, matte shooting, and special effects.
- 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 4208 FILM DIRECTING** (3)
PR: FIL 3004. Introduction to the techniques of film direction.
- FIL 4209 CINEMA DYNAMICS** (3)
PR: FIL 3004. Techniques for the description and analysis of intra-frame movement. Concurrent laboratory in subject and camera movement.
- FIL 4300 THE DOCUMENTARY FILM** (3)
PR: Sophomore standing. The development of the documentary

movement; earliest newsreels; Flaherty, Grierson and the GPO Unit. U.S. Government-sponsored films, the Canadian Film board, Cinema Verite; study of about 60 fact-films from some 20 countries. Stresses objective criteria, critical analysis.

- FIL 4403 SOCIAL HISTORY OF THE FILM TO 1945** (3)
PR: MMC 3100 and MMC 3602. The industrial, technological, philosophical, and social factors bearing on the rise and development of the motion picture as a popular art. Intensive study of a series of films through screenings and readings.
- FIL 4404 SOCIAL HISTORY OF THE FILM, 1945 TO THE PRESENT** (3)
PR: MMC 3100 and MMC 3602. A continuation of FIL 4403, covering the development of the film from 1945 to the present. (FIL 4403 is not a prerequisite.)
- 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, 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 3205 TYPOGRAPHY I** (3)
PR: MMC 3100 and MMC 3602. The history and design of type, major classifications of type faces, typographic nomenclature, printer's measurements, and the science of type design and identification. Laboratory work.
- JOU 3206 TYPOGRAPHY II** (3)
PR: JOU 3205. A study of the history of typesetting, the emergence of computers and coldtype composition; extensive study and use of copyfitting methods for body type, display, and headlines; principles of typography and photocomposition including readability and legibility. Laboratory work.
- JOU 3300 MAGAZINE ARTICLE AND FEATURE WRITING** (3)
PR: CRW 3100, 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 writing art, drama, music, and book reviews and satire, sports, or personal columns.
- JOU 3940 REPORTING PRACTICUM** (1)
PR: JOU 4104 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 SOC 1020. 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 4202 NEWS EDITING II** (3)
PR: JOU 4200, POS 2041. Continuation of JOU 4200, with more intensive practice on the copydesk in evaluating, processing, editing, and headlining live wire copy and local copy; experimental makeup; managing the copy desk. Current events and analysis of selected daily newspapers.
- JOU 4208 MAGAZINE EDITING AND PRODUCTION** (3)
PR: JOU 3300, JOU 4200. A study of magazines in America: prepara-

tion of copy, photographs and art for printing; issue planning and design; examination of production methods, including printing, typography and mechanicals. Preparation of a detailed proposal and comprehensive for a hypothetical magazine.

JOU 4500 NEWSPAPER ORGANIZATION AND MANAGEMENT (3)

PR: JOU 3101 and senior standing. An introduction to the work of newspaper managers; advertising, business, circulation, news editorial, production, research and promotion, with guest lecturers from the press. Newspaper ethics responsibility, and performance. Research in current newspaper problems.

JOU 4800 MASS MEDIA STUDIES (3)

PR: Junior standing. JOU 3100, MMC 3602. Intensive review of mass communications theory, practice, and content as they relate to teaching mass media in secondary schools, with some emphasis also on supervision of school publications. *Not open to Mass Communications majors.*

JOU 4941 EDITING PRACTICUM (1)

PR: Senior standing JOU 4202 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 3000 SURVEY OF MASS COMMUNICATIONS (2)

The functions of agencies of mass communications and their impact upon society; critical analyses of press performance in relation to current events; evaluation of the press through a study of its history. *Not open for credit to Mass Communications majors.*

MMC 3100 WRITING FOR THE MASS MEDIA (3)

PR: Sophomore standing; 2.5 GPR; grade of "C" in ENC 1101, ENC 1104, 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 3700 THE POPULAR ARTS IN AMERICA (3)

A survey of the growth of the popular arts (motion pictures, radio, television, art best sellers, jazz and other forms of music, the comics, etc.) as mirrors, transmitters and transformers of American cultural values.

MMC 3936 SELECTED TOPICS IN MASS COMMUNICATIONS STUDIES (1-3)

Courses designed to meet current or specific topics of interest to the instructor and students.

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 4201 GOVERNMENT AND THE MEDIA (3)

PR: MMC 4200. The relationships between government and the media, with emphasis on current activities of such regulatory agencies as the Federal Communications Commission, the Federal Trade Commission and other commissions; the courts, the Congress and the Executive; examination of the media and industry codes and standards.

MMC 4300 INTERNATIONAL COMMUNICATION (3)

Mass communications as internal and international systems; flow of the news; international news communications networks; satellite communications, overseas activities of American media interests; international propaganda; communication and national development, international media organizations and their activities.

MMC 4420 RESEARCH METHODS IN MASS COMMUNICATIONS (3)

PR: MMC 3100, MMC 3602, and/or CI. 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.)

PUR 3000 PRINCIPLES OF PUBLIC RELATIONS (3)

PR: ECO 2013 and MAN 3010, 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 3000 and PUR 4100. 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 4601 PUBLIC INFORMATION (3)

PR: POS 2041, POS 2112, and PUR 4100. The nature of government public information organization, practices, and criticisms thereof; the role of information specialists in reporting government at all levels to the public; conceptual differences in approach and techniques between governmental and private sector public relations.

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 credits 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 3100, 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 or CI. 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 or THE 2020. Development of skills required for effective announcing and other appearances before microphone and camera.

RTV 3300 BROADCAST NEWS (3)

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 4205 ADVANCED TV PRODUCTION AND DIRECTION (3)
PR: RTV 4220 and junior standing. Intensive study and practice of the techniques of TV production and direction with emphasis on both creative and experimental aspects of TV programming.

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. Techniques in writing and filming for television news.

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. A study of the 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 3100 PHOTOJOURNALISM I (3)
PR: MMC 3100 and MMC 3602. Camera operation, darkroom techniques, picture composition; editing, ethics, history, and laws in connection with photojournalism.

VIC 3102 PHOTOJOURNALISM II (3)
PR: VIC 3100. 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 newspapers. Emphasis is placed on student production.

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.)

VIC 4103 COLOR PHOTOGRAPHY (3)
PR: VIC 3102. 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.

GRADUATE COURSES

ADV 6503 MEDIA AND MARKET ANALYSIS (3)
An advanced study of the demographic, geographic, and social-psychographic descriptions of media and markets to analyze mass media audiences, costs and uses to aid in solving marketing communications problems for advertisers.

ADV 6602 ADVERTISING MARKETING DECISIONS (3)
A study of managerial problems in planning, controlling, and evaluation of advertising with emphasis on the decisions concerning products, pricing, competitive positioning, distribution and promotion.

JOU 6107 ADVANCED URBAN AFFAIRS REPORTING (3)
Problems and methods of reporting urban affairs, including municipal government and politics: city, county and state. Research/analyses of current issues.

JOU 6191 SEMINAR: CONTEMPORARY NEWSPAPER PROBLEMS (3)
A study of the role of the free press in a democratic society and its efforts to fulfill its social and ethical responsibilities by analyses and discussions of the problems which face the reporter, the editor, and the publisher.

MMC 6303 INTERNATIONAL COMMUNICATIONS SEMINAR (3)
Mass Communications as national and international systems; flow of the news; international news communications networks; satellite communications; overseas activities of American media interests; international propaganda; communication and national development; international media organizations and their activities.

MMC 6401 MASS MEDIA STRUCTURES (3)
The study of mass communications theories, structures, influences, and their relationships to institutions in American society.

MMC 6421 RESEARCH METHODS IN MASS COMMUNICATIONS (3)
The theory and practice of quantitative, historical, and critical research methods, and their applications to the study of mass communication. Emphasis on experimental and survey research, statistical analysis, and evaluation of data.

MMC 6605 PUBLIC OPINION AND THE MASS MEDIA (3)
The influence of public opinion on private and public institutions in a democratic society and the role of the mass media in opinion formation. The nature of persuasion in establishing or modifying public opinion, and perspectives on the social responsibilities of communicators.

MMC 6612 SEMINAR: GOVERNMENT AND THE MEDIA (3)
PR: MMC 4200 or equivalent. Interrelationships of the media and government at the judicial, executive and legislative levels. Focus is on legal limitations and privileges of the media theory and philosophy of the First Amendment; research procedures in court and administrative agency documents.

MMC 6900 DIRECTED READINGS IN MASS COMMUNICATIONS (1-3)
PR: CI and graduate adviser. Readings in specialized areas of Mass Communications as agreed to by the instructor and the student by contract. May be repeated up to 3 credit hours. (S/U only.)

MMC 6910 INDIVIDUAL RESEARCH IN MASS COMMUNICATIONS (1-3)
PR: CI and graduate adviser. Independent study in which the student must have a contract with the instructor to study an area not covered by other courses in the graduate curriculum. May be repeated up to 3 credit hours. (S/U only.)

MMC 6936 SELECTED TOPICS IN MASS COMMUNICATIONS (3)
Courses designed to meet current, specific topics of interest to students and instructors.

MMC 6945 PROFESSIONAL PRACTICUM (3)
PR: Minimum of 12 graduate hours in Mass Communications. Practicum will consist of placement with a media related organization selected by the student and approved and supervised by the graduate adviser. (S/U only.)

MMC 6971 THESIS: MASTER'S (var.)
Repeatable. May be taken for varying credit in successive semesters up to 6 credit hours. (S/U only.)

PUR 6603 PUBLIC RELATIONS COUNSELING (3)
Relationship of the public relations counselor to the client or employer; counseling in corporate, non-profit and governmental organizations; writing and presenting PR programs to the client; management and operation of counseling firms.

PUR 6604 STANDARDS OF PUBLIC RELATIONS PRACTICE (3)
Historical perception of ethical practice; the professional's role as advocate for the client and ombudsman between the client and his public; codes of conduct; administrative and statutory law governing the practice; progress towards professional status.

RTV 6400 HISTORY AND CRITICISM OF BROADCASTING (3)
The origin and development of broadcast programming stressing how radio and television content affect social, cultural, and political values. Study will also include critical examination of broadcast aesthetics and those factors which determine program form and function.

RTV 6702 TELECOMMUNICATIONS AND PUBLIC POLICY (3)
An exploration of the emerging problems of telecommunications policy, especially the regulation of news systems of communications, and the development of communications policy in a post-industrial age.

VIC 6005 SEMINAR IN VISUAL COMMUNICATIONS (3)
Development of message preparation in the integration of visual and verbal images, emphasis on the management and planning of still photography, video, film, graphic design, and typography in effective communication.

PHILOSOPHY

Chairperson: W.H. Truitt; *Professors:* J.A. Gould, W.H. Truitt; *Professor Emeritus:* C.H. Chen; *Associate Professors:* J.A. Bell, B.R. Boxill,

B. Silver, R.C. Weatherford; *Assistant Professors:* J. Beil, R.N. Taylor;
Courtesy Assistant Professors: M. Ferrandino, M. Myerson.

UNDERGRADUATE COURSES

PHH 3000 INTRODUCTION TO PHILOSOPHICAL

TRADITIONS (3)
 An historical introduction to selected philosophical traditions through readings from representative thinkers.

PHH 3100 ANCIENT AND MEDIEVAL PHILOSOPHY (3)

A survey of philosophy from the pre-Socratics through Plotinus.

PHH 3420 MODERN PHILOSOPHY (3)

A survey of Western philosophy from Descartes through Thomas Reid.

PHH 3440 RECENT PHILOSOPHY (3)

A survey of philosophy from Kant through nineteenth century philosophy.

PHH 4600 CONTEMPORARY PHILOSOPHY (3)

PR: Eight hours of philosophy or CI. Selected schools of twentieth century thought such as idealism, positivism, pragmatism, realism, and existentialism.

PHH 4700 AMERICAN PHILOSOPHY (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 PRACTICAL LOGIC (2)

Elementary theory and application of logical fallacies, deductive and inductive logic. Not for majors.

PHI 3011 INTRODUCTION TO PHILOSOPHICAL PROBLEMS (3)

An introduction to major philosophical problems through readings from representative thinkers.

PHI 3100 LOGIC (4)

Language analysis and classical modern formal logic, including the logic of classes and propositions, and discussion of philosophical issues.

PHI 3404 SCIENTIFIC METHOD (3)

Probability, inductive inference, the hypothetico-deductive method, experimentation, and selected topics in the philosophy of science.

PHI 3600 ETHICS (3)

An examination of the writing of the philosophers: Plato, Aristotle, Kant, Sartre, etc., about moral problems and principles.

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 3700 PHILOSOPHY OF RELIGION (3)

Analysis of religious experience and activity and examination of principal religious ideas in light of modern philosophy.

PHI 3905 DIRECTED STUDY (1-4)

PR: CI. Individual study directed by a faculty member. Approval slip from instructor required.

PHI 3930 SELECTED TOPICS (1-4)

PR: CI. Selected topics according to the needs of the student.

PHI 4320 PHILOSOPHY OF MIND (3)

PR: Eight hours of philosophy or CI. 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 problem of other minds, the physical basis for intelligence, etc.

PHI 4360 THEORY OF KNOWLEDGE (3)

PR: Eight hours of philosophy, PHI 3300, or CI. 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 4800 AESTHETICS (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.

phases 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.

PHM 3100 SOCIAL PHILOSOPHY (3)

An analysis of rival theories of social order and their philosophical foundations.

PHM 3222 PHILOSOPHIES OF THE CITY (3)

A study of the current issues in the philosophy of the city including the nature of community, alienation and the city, art and the city, political philosophy of the city, the city and business, nature versus the city, the city and beauty, etc.

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 (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 (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 (3)

A survey of political philosophy in the twentieth century, including an examination of the ethical, metaphysical and epistemological bases on these philosophies.

PHP 3786 EXISTENTIALISM (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 (3)

PR: Eight hours of philosophy or CI. The examination of Plato will include the dialogues *Protagoras*, *Georgias*, *Meno*, *Republic*, etc.

PHP 4010 ARISTOTLE (3)

PR: Eight hours of philosophy or CI. Study of Aristotle's philosophy.

PHP 4410 KANT (3)

PR: Eight hours of philosophy or CI. Lecture and discussion of Kant's philosophy, especially *The Critique of Pure Reason*.

PHP 4740 RATIONALISM (3)

A careful study of the epistemologies of Descartes, Spinoza, Leibniz, and Malebranche.

PHP 4745 EMPIRICISM (3)

A careful study of the epistemologies of Locke, Berkeley, Hume, and Thomas Reid.

PHP 4784 ANALYTICAL PHILOSOPHY (3)

PR: Eight hours of philosophy, PHI 3100. 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 (3)

PR: CI. 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.

GRADUATE COURSES

PHH 6938 SEMINAR IN THE HISTORY OF PHILOSOPHY (3)

PR: Graduate standing or CI. A seminar in the history of philosophy. The instructor will determine the subject matter. Variable titles: Ancient, Modern, Recent, Contemporary. Repeatable up to 12 credit hours.

PHI 5135 SYMBOLIC LOGIC (3)

PR: PHI 3100 or CI. Mathematical treatment of formal logic, including methods of proof, quantification, the logic of relations and an introduction to properties of deductive systems.

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.
- PHI 6105 SEMINAR IN LOGIC** (3)
PR: Graduate standing or CI. Foundations and basic problems of logic. This course may be taken more than once for credit with CI and departmental approval. Seminar format.
- PHI 6305 SEMINAR IN EPISTEMOLOGY** (3)
PR: Major in philosophy or psychology and CI. This course may be taken more than once for credit with CI and departmental approval. Seminar format.
- PHI 6405 SEMINAR IN THE PHILOSOPHY OF NATURAL SCIENCE** (3)
PR: Graduate standing or CI. A study of the nature and status of physical theories, some basic problems associated with scientific methodology, and the philosophical implications of modern science. This course may be taken more than once for credit with CI and departmental approval. Seminar format.
- PHI 6425 SEMINAR IN THE PHILOSOPHY OF SOCIAL SCIENCES** (3)
PR: Eight hours of philosophy or CI. Philosophic issues arising in the social sciences; value assumptions, laws and theories, models, etc. Seminar format.
- PHI 6605 SEMINAR IN ETHICS** (3)
PR: Graduate standing and CI. Advanced study of the problems of moral philosophy. May be repeated up to 9 credit hours.
- PHI 6506 SEMINAR IN METHAPHYSICS** (3)
PR: Graduate standing or CI. An analysis of fundamental religious concepts in terms of contemporary philosophy. This course may be taken more than once for credit with CI and departmental approval. Seminar format.
- PHI 6706 SEMINAR IN PHILOSOPHY** (3)
PR: Graduate standing or CI. An analysis of fundamental religious concepts in terms of contemporary philosophy. This course may be taken more than once for credit with CI and departmental approval. Seminar format.
- PHI 6808 SEMINAR IN AESTHETICS** (3)
PR: Graduate standing or CI. An analysis of fundamental special problems of aesthetics; value, perception, communication, technique, context. This course may be taken more than once for credit with CI and departmental approval. Seminar format.
- PHI 6908 DIRECTED RESEARCH** (var.)
PR: GR. Master's level. Repeatable. (S/U only.)
- PHI 6934 SELECTED TOPICS** (1-3)
PR: Graduate standing and CI. Selected topics according to the needs of the student. Approval slip from instructor required.
- PHI 6945 GRADUATE INSTRUCTION METHODS** (1-3)
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of three credits per student. (S/U only.)
- PHI 6971 THESIS: MASTER'S** (var.)
Repeatable. (S/U only.)
- PHM 6105 SEMINAR IN SOCIAL PHILOSOPHY** (3)
PR: Graduate standing or CI. A detailed study of the philosophical theories of society, class societies (Capitalism), advanced technocracy, (all types). This course may be taken more than once for credit with CI and departmental approval. Seminar format.
- PHM 6305 SEMINAR IN POLITICAL PHILOSOPHY** (3)
Graduate standing or CI. An examination of the main political philosophies. This course may be taken more than once for credit with CI and departmental approval. Seminar format.
- PHM 6406 SEMINAR IN THE PHILOSOPHY OF LAW** (3)
PR: Graduate standing or CI. A study of the metaphysical, ethical and epistemological bases of law. This course may be taken more than once for credit with CI and departmental approval. Seminar format.
- PHM 6506 SEMINAR IN PHILOSOPHY OF HISTORY** (3)
PR: Graduate standing or CI. The analysis of language and logic of historical explanation, historical idealism, historic materialism, positivism, and historical sociology. This course may be taken more than once for credit with CI and departmental approval. Seminar format.

RELIGIOUS STUDIES

Chairperson: W.C. Tremmel; *Coordinator of Ancient Studies:* A.M. Gessman; *Professors:* A.M. Gessman, W.C. Tremmel, J. F. Strange; *Associate Professor:* W.M. Shea; *Assistant Professors:* D.E. Bassuk, T.J. Burns; *Visiting Assistant Professor:* M.G. Mitchell; *Visiting Instructors:* R. Akers, R. DeHainaut, R. Giannini, C. Kilgore, F.N. Sundheim; *Other Faculty:* J.S. Hatcher, E.E. Smith.

UNDERGRADUATE COURSES

- GRE 3040 NEW TESTAMENT GREEK I** (4)
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** (4)
Intermediate readings and grammar of the Greek New Testament.
- REL 3000 INTRODUCTION TO RELIGION** (4)
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** (4)
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** (4)
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** (4)
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 3201 LAND OF THE BIBLE** (4)
A survey of the natural features, historical forces, and cultural movements of the Holy Land that shaped its peculiar role in history with respect to the ancient Hebrews. particular attention will be paid to the period from the Hebrew Conquest to time of Jesus.
- REL 3210 INTRODUCTION TO THE 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 3243 INTRODUCTION TO THE NEW TESTAMENT** (4)
An introduction to the critical study of the New Testament in context of Christian beginnings in the first century A.D. REL 3243 and REL 4244 may not both be credited toward the major.
- REL 3280 BIBLICAL ARCHAEOLOGY** (4)
An examination in depth 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 3332 BUDDHISM** (4)
The study and comparison of Theravada and Mahayana Buddhism in their philosophical and psychological dimensions.
- REL 3335 RELIGIONS OF CHINA AND JAPAN** (4)
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 3342 THE RELIGIONS OF INDIA** (4)
The sources of Hindu philosophic thought, an understanding of the psychology of the Yogas, and a study of the Hindu holy men and women are the three main concerns of this course.

REL 3420 CONTEMPORARY RELIGIOUS THOUGHT (4)

An examination of the central ideas of recent theological thinkers; such men as Barth, Brunner, Bultmann, Bonhoeffer, Rahner, Tillich, Cox, Altizer, Buber, Niebuhr.

REL 3501 HISTORY OF CHRISTIANITY (5)

The historical development of Christianity, its ideas and institutions, from the first century to the rise of "religious modernism" in the 19th century.

REL 3508 SOURCES OF CHRISTIANITY (3)

An investigation of the pre-Christian influences, in addition to the influences of Judaism, that shaped the theology and practices of Christianity up to the end of the 4th century; influences, many of which continue to be evident in the traditional Roman and Eastern Orthodox churches.

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 3936 SELECTED TOPICS (1-4)

PR: CI. Course contents depend on students' needs.

REL 4158 RELIGION AND DEPTH PSYCHOLOGY (4)

PR: One psychology course or CI. This course is designed to enhance the student's understanding of human existence by investigating the interrelationship between human dynamics and religion.

REL 4182 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 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 BIBLE II: PROPHETS, 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 4235 APOCRYPHA AND PSEUDEPIGRAPHA (3)

A critical study of the books written "between the Testaments", a few of which (the Apocrypha) are sometimes regarded as canonical by some groups, but most of which (the Pseudepigrapha) are not. Special attention will be paid to the role of these books in the development of early Christianity and post-Biblical Judaism.

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 3243 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 4295 DEAD SEA SCROLLS (4)

PR: CI. A survey and study of the literature of the Dead Sea Scrolls in English translation. Examination of the literary, historical, and archaeological evidence for the identification of the Qumran people with the Essenes. Possible connections with the New Testament and early Christian theology.

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.

GRADUATE COURSES**REL 5937 SELECTED TOPICS (1-4)**

PR: Senior standing and CI. Course contents depend on students' needs.

REL 6015 PROSEMINAR: THE GRADUATE STUDY OF RELIGION (3)

PR: Graduate standing in the Department of Religious Studies. An introduction to and research methods used in Religious Studies proper and those borrowed from other disciplines. In the former are to be found Comparative Religion, religious hermeneutics, and theological analysis. Among the latter are included comparative literature, literary criticism, and historiography.

REL 6107 SEMINAR: RELIGION AND THE HUMAN EXPERIENCE (3)

The study of religion with emphasis on the human experience through modern thinkers such as Tillich, Ricoeur, etc. May be retaken with different subject matter once.

REL 6126 RELIGION IN AMERICA (3)

Studies in the history of native American religions, of the rise of American denominations, churches, and sects, of the relationship between church and state, and of religious thought in America. May be retaken with different subject matter twice. Open to non-majors.

REL 6183 CLASSICS OF THE WESTERN MYSTICAL TRADITION (3)

An analysis of major works in spirituality in the medieval to modern periods in Christianity and Judaism. Special attention is paid to the psychology of the mystical experience and the mystics' relationship to their community and tradition. Open to non-majors. May be retaken with different subject matter once.

REL 6184 COMPARATIVE MYSTICISM (3)

An in-depth survey of different types of mystical consciousness, in the West and the East, medieval and modern.

REL 6246 STUDIES IN THE GOSPELS (3)

An examination in detail of a select problem in Gospel research such as the Synoptic Problem, the social world of earliest Palestinian Christianity as inferred from the documents, life of Jesus research, or structural criticism of gospel narrative. May be retaken with different subject matter twice.

REL 6285 STUDIES IN BIBLICAL ARCHAEOLOGY (3)

A study of various problems in Biblical Archaeology including excavation techniques, principles of interpretation, problems in correlation of the text of the Bible and specific finds, chronology, reconstruction of culture from archaeological evidence, and others.

REL 6304 SEMINAR: ISSUES IN COMPARATIVE RELIGION (3)

PR: One course in Western religions and one course in Eastern religions. An analysis of areas of mutuality between religions of the East and West so that comparisons and dialogue can occur. May be retaken with different subject matter twice.

REL 6317 SEMINAR: STUDIES IN EASTERN RELIGIONS (3)

This course provides the student with sources and ideas for research in Oriental religions and with an interdisciplinary approach. May be retaken with different subject matter once.

REL 6327 SEMINAR: ANCIENT RELIGIONS AND LITERATURES (3)

A research seminar in some aspect of ancient religion and literature: Hebrew Bible, New Testament, Mithraism, Mystery Religions,

Pseudepigraphica, and others taught in translation. May be retaken with different subject matter three times.

REL 6385 NATIVE AMERICAN RELIGIONS (3)

An in-depth research seminar on the myths and religious beliefs of the American Indian, particularly of Meso-America and North America.

REL 6426 20TH CENTURY THEOLOGICALS (3)

An examination of certain modern theologians representing theological movements such as liberal Protestantism, Catholic modernism, fundamentalism, liberation theologies, etc. and Jewish reactions to modernity such as orthodoxy, conservatism, and reconstruction, etc. May be retaken with different subject matter once.

REL 6491 SEMINAR: RELIGIOUS THOUGHT (3)

A study of the origins, development and role of reflective thought in religion and of the relations between various statements of religious meaning such as scripture, creeds, dogmas, etc. May be retaken with different subject matter twice.

REL 6507 RELIGIOUS IDEAS OF THE MIDDLE AGES (3)

A historical survey of the religious factors of the period from the emergence of Islam in Europe through the rise of the Papacy, through the Crusades, to the development of the Papal University and the Reformation.

REL 6906 INDEPENDENT STUDY (1-3)

PR: Graduate Standing, Master's Level. Independent study in which the student must have a contract with the instructor. Open to non-majors.

REL 6911 DIRECTED RESEARCH (1-3)

PR: Graduate Standing, Master's Level. Individual guidance in concentrated reading in a carefully delimited area of religious studies research skills. Repeatable. Majors only.

REL 6938 SPECIAL TOPICS IN RELIGIOUS STUDIES (2-4)

PR: Graduate standing. Open to non-majors. Variable titles offered periodically on topics of special interest. May be retaken with different subject matter twice.

REL 6940 GRADUATE INSTRUCTION METHODS (1-4)

Offered primarily for the supervision of Graduate Teaching Assistants. Variable credits.

REL 6971 THESIS, MASTER'S (Var.)

PR: GR. Master's level. Repeatable. (S/U only.)

Ancient Studies Sequence

UNDERGRADUATE COURSES

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 3851 MID-EASTERN MYTHOLOGY (2)

Study of the more important myths and religious concepts of Egypt, the Fertile Crescent, Crete, Anatolia, and Persia, and of their impact on the Hebrew and Graeco-Roman mythologies as well as on later Western art, literature, and religion.

CLA 4100 GREEK CIVILIZATION (3)

Detailed study of the Aegean and Greek civilizations from their beginning in Crete and Mycenae to the Roman period. Greek discoveries, explorations, and colonization. (Alternate years.)

CLA 4120 ROMAN CIVILIZATION (3)

Prehistoric Italy and Etruscan civilization. History of the civilization of Rome and the Empire with emphasis on the Etruscan, Greek, Carthaginian, and Mid-Eastern influences. (Alternate years.)

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 3100, 3101 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.

HEB 4250, 4251 ADVANCED HEBREW I, II (4,4)

PR: HEB 3100, HEB 3101, or equivalent. Study and analysis of selected passages from pre-Exilic, Exilic, and post-Exilic Biblical and extra-Biblical Hebrew texts to the second century B.C.E. Survey of the Hebrew literature from its beginning to the end of the Second Commonwealth.

GRADUATE COURSES

The following entries are intended as service courses for students in related graduate programs, in particular Anthropology, History, and Linguistics. In all of these, permission from the coordinator is required prior to enrollment.

CLA 5900 DIRECTED READINGS (1-4)

Readings in special topics chosen by the student in cooperation with the instructor. Reading of literature also possible in English translation.

CLA 5910 INDIVIDUAL RESEARCH (1-4)

Specialized individual work in particular areas of student's interest.

CLA 5930 SELECTED TOPICS (1-4)

Course contents depend on student demand and instructor's interest and may range over the whole field of Ancient languages (including comparative studies), literatures, civilizations, and epigraphy.

NOTE: In any of the numbers CLA 4900, CLA 4930, CLA 5900, CLA 5910, CLA 5930, enrollment is repeatable for different subject matters.

COLLEGE OF BUSINESS ADMINISTRATION

ACCOUNTING/LAW

Chairperson: R. J. West; *Professor Emeritus:* L. C. Jurgensen; *Professors:* R. G. Cox, R. M. Keith, G. McClung, K. W. Merriam, J. L. Smith, R. J. West; *Associate Professors:* J. F. Bussman, D. M. Dennis, L. C. Harris, S. C. Kahn, W. H. Parrott, J. D. Seibel, W. L. Stephens, R. F. Welker, G. F. Whittaker; *Assistant Professors:* K. Hooks, G. H. Lander, J. Lasseter, Jr., G. A. H. Laursen; *Instructors:* S. M. Callan, J. R. Colley, D. Even, M. A. Hasbini; *Lecturers:* W. T. Elder, A. W. Fisher, C. J. Jozsi.

UNDERGRADUATE COURSES

ACC 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.

ACC 2021 FINANCIAL AND MANAGERIAL ACCOUNTING II (3)

PR: ACC 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 ac-

countant in assisting management in the planning and controlling of operations.

ACC 3101 INTERMEDIATE ACCOUNTING I (4)

PR: ACC 2021. 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.

ACC 3121 INTERMEDIATE ACCOUNTING II (4)

PR: ACC 3101. Continuation of theory and principles underlying financial statements: current and long term liabilities, stockholders' equity, earnings-per-share, income taxes, pensions, leases, accounting changes, inflation, the statement of changes in financial position.

ACC 3401 COST ACCOUNTING AND CONTROL I (3)

PR: FIN 3403, GEB 3121. Deals with relevant costs for decision making, standards and job order costing, flexible budgeting direct and absorption costing, regression analysis and decision models.

ACC 3730 ACCOUNTING INFORMATION SYSTEMS (3)

PR: ACC 3101, and COC 2201. 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.

ACC 4501 FEDERAL TAXES I (3)

PR: ACC 2021. An introduction to the federal income tax structure. Use of tax services and the concept of taxable income primarily applicable to individuals.

ACC 4521 FEDERAL TAXES II (3)

PR: 4501. Continued study of the federal income tax structure. Special topics and the concept of taxable income as it applies primarily to business enterprises.

ACC 4601 AUDITING (3)

PR: ACC 3121 and GEB 3121. Principles and procedures of internal and public auditing. The ethics, responsibilities, standards, and reports of professional auditing.

ACC 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.)

ACC 4914 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.

ACC 4934 SELECTED TOPICS IN ACCOUNTING (1-4)

PR: CI. The course content will depend on student demand and instructor's interest.

GRADUATE COURSES

ACC 5211 ADVANCED ACCOUNTING (4)

PR: ACC 3121. Accounting for business combinations, preparation of consolidated financial statements, home office and branch operations, accounting for international operations and partnership.

ACC 5315 FINANCIAL/MANAGERIAL ACCOUNTING (3)

This course provides students in the M.S. degree in Management with a basic knowledge of financial and managerial accounting in both the public and private sectors. The course concentrates on the uses and limitations of accounting data for planning, control, and other decision making activities.

ACC 5451 MANAGEMENT ACCOUNTING AND CONTROL (3)

PR: 20 semester hours of accounting or CI. Measurement, interpretation, planning, and control or costs by means of predetermined standards and variance analysis. Use of accounting and statistical information in preparing budgets and controlling operations.

ACC 5631 CONTEMPORARY ISSUES IN AUDITING (3)

PR: ACC 4601. This course is designed to discuss and illustrate the professional pronouncements that govern the professional practice of Auditing practice and emerging issues related to the field of Auditing are considered.

ACC 5805 CONTEMPORARY ACCOUNTING THOUGHT (3)

PR: Intermediate Accounting II or equivalent. An in-depth coverage of selected topics in accounting. Emphasis is placed on current significant developments that have taken place in the profession which the student should have for a well-rounded background in accounting but have not been exposed to in previous courses. Available to majors and non-majors.

ACC 5866 NONPROFIT ORGANIZATION ACCOUNTING (3)

PR: ACC 2021. Application of accounting principles and theory of governmental units and nonprofit institutions. Available to majors and Master of Business Administration students.

ACC 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.

ACC 6412 MANAGEMENT ACCOUNTING AND CONTROL (3)

PR: GEB 6705. The relevancy and limitation of cost information in: (1) planning and controlling current operations; (2) special decisions and long-range planning; (3) inventory valuation and income determination. Not available for credit for graduate students in the Master of Accountancy program.

ACC 6511 FEDERAL TAX RESEARCH AND PLANNING (3)

PR: ACC 4501 or CI. A study of the development of tax law and its implication in business decisions. Tax planning and tax research are emphasized.

ACC 6745 SYSTEMS THEORY AND QUANTITATIVE APPLICATIONS (3)

PR: ACC 3730 or equivalent. The design and operation of contemporary accounting systems including the relevance of data processing and statistical methods to the system of financial information and control.

ACC 6811 DEVELOPMENT OF ACCOUNTING THOUGHT (3)

PR: 20 semester hours of accounting or CI. A study and evaluation of the development and evolution of current account theory and measurement concepts. The definition of accounting objectives and goals and the development of measurement models.

ACC 6905 INDEPENDENT STUDY (var.)

Independent Study in which student must have a contract with an instructor. Repeatable (S/U only.)

ACC 6910 DIRECTED RESEARCH (var.)

PR: GR. Master's level. Repeatable. (S/U only.)

ACC 6930 SELECTED TOPICS IN ACCOUNTING (1-4)

PR: CC. The course content will depend on student demand and instructor's interest. May be repeated up to 6 hours.

COMMON BODY OF KNOWLEDGE

GRADUATE COURSES

GEB 6705 FINANCIAL ACCOUNTING FOR MANAGERS (3)

PR: Graduate standing. Study of (1) accounting concepts and standards applicable to presentation of financial information to interested users, (2) structure, uses and limitations of financial statements and (3) measurement systems related to income determination and asset valuation. Discussion of internal and external influences on accounting decisions.

GEB 6716 MICROECONOMIC ANALYSIS (3)

PR: Graduate standing. Study of the theories of economic behavior in the market system and an appreciation of the role of economic organizations in achieving private and social goals. Topics covered: consumer behavior, demand analysis, factor markets, theories of production and cost.

GEB 6717 MACROECONOMIC ANALYSIS (3)

PR: GEB 6716. A study of the interaction of aggregate demand and supply in the determination of output, employment, prices, wages, and interest rates.

GEB 6725 FINANCIAL MANAGEMENT (3)

PR: GEB 6705 or its equivalent. The study of processes, the decision structures, and the institutional arrangements concerned with the utilization and acquisition of funds by a firm. The course will include the management of the asset structure and the liability structure of the firm both certain and risky situations and considering the problems of time and the decision makers preferences. The financial decision processes will include and recognize the international as well as domestic aspects of financial management.

GEB 6735 SOCIAL, LEGAL, AND POLITICAL ENVIRONMENT OF BUSINESS (3)

PR: 12 hours of MBA Foundation Courses. A study of the influence of social, cultural, legal, and political environment of institutional behavior, including the changing nature of the business system, the public policy process, corporate power, legitimacy and managerial autonomy, and organizational reactions to environmental forces.

GEB 6745 MARKETING MANAGEMENT (3)

PR: GEB 6716. Analysis of operational and strategic planning problems confronting marketing managers. Topics include buyer behavior, market segmentation, information systems, product selection and development, pricing, distribution, promotion and sales force management.

GEB 6756 STATISTICAL METHODS FOR MANAGEMENT (3)

PR: College algebra. A study of probability and statistics as applied to administrative problems of choice estimation and prediction under conditions of uncertainty.

GEB 6757 QUANTITATIVE METHODS FOR OPERATIONS MANAGEMENT (3)

PR: Graduate standing, college algebra. The study and application of management science techniques to problems in resource allocation, scheduling, inventory control, etc.

GEB 6775 INFORMATION SYSTEMS FOR MANAGEMENT (3)

A study of the analysis and application of management information systems; the impact of computers on decision making; the utilization of computer languages, statistical packages, research and business analysis.

GEB 6836 THE MANAGEMENT PROCESS (3)

PR: Graduate standing. An examination of the theory and practice of management, including the study of goals and means, the functions of management, and the administrative process in general.

GEB 6895 BUSINESS POLICY (3)

PR: All MBA Foundation Courses. Advanced study of business decision-making processes under conditions of risk and uncertainty, including integrating analysis and policy formulation at the general management level.

ECONOMICS

Chairperson: J. W. Rowe, Jr.; *Professors:* G. Brunhild, T. D. Curtis, H. S. Dye, W. J. Herman, J. S. Hodgson, J. W. Rowe, Jr., E. W. Shows; *Associate Professors:* R. H. Burton, J. P. Cooke, E. J. Ford, E. A. Hanni, R. J. Murphy, R. F. Shannon, G. C. Steinike; *Assistant Professors:* G. Bennett, K. W. Davey, C. A. Green, M. G. Herander, R. L. Moss, R. L. Pupp, J. B. Schwartz, J. G. Spence, C. R. Thomas, R. M. Wilson.

UNDERGRADUATE COURSES

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 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. 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 2013, ECO 2023. 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 4264 THEORY OF ECONOMIC DYNAMICS (3)

PR: ECO 3203. Examination of macroeconomic processes as they occur through time. The determination and characteristics of long run growth paths based upon both Keynesian and Neoclassical models are discussed. Empirical studies, forecasting, and policy issues are also considered.

ECO 4303 HISTORY OF ECONOMIC THOUGHT (3)

PR: ECO 3101, or CI. 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 GEB 3121, MAC 2243 or CI. Economic processes expressed as equations and economic systems as mathematical models. Investigation of static and dynamics properties by mathematical analysis and computer simulation.

ECO 4402 SELECTED TOPICS IN QUANTITATIVE ECONOMICS (3)

PR: CI. Analysis of relevant problems of social policy by application of economic criteria and econometric method. Survey of contemporary research.

ECO 4504 PUBLIC FINANCE (3)

PR: ECO 3101. 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 4723 INTERNATIONAL COMMERCIAL POLICIES (3)

PR: ECO 3101. 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 3003 BUSINESS-GOVERNMENT RELATIONSHIPS (3)

PR: ECO 2023. Analysis of the three public policy approaches: competitive, regulatory, and ownership; in terms of ability to bring about economically desirable price-cost relationships, reductions in cost, invention and innovation and an optimal allocation of resources.

ECP 3203 LABOR ECONOMICS (3)

PR: ECO 3101 or CI. History of the trade union movement; economic analysis of trade union philosophies and practices; examination of basic influences affecting labor force, real wages, and employment; collective bargaining and labor law.

ECP 3433 ECONOMICS OF TRANSPORTATION (3)

PR: ECO 2013 and ECO 2023. Functions of transporting agencies, rate structure of transportation companies, problems of state and federal regulations and coordination of transportation facilities.

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.

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 is 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.

GEB 2111 BUSINESS AND ECONOMIC STATISTICS I (3)
PR: MAC 2243. Description of sample data; calculation of probabilities, frequency functions of random variables; the binomial and normal distributions; sampling theory and estimation; tests of hypotheses; elements of Bayesian decision theory.

GEB 3121 BUSINESS AND ECONOMIC STATISTICS II (3)
PR: MAC 2243, GEB 2111. Theory and use of statistical inference. Point and interval estimation; criteria for choosing estimators and decision rules; hypotheses tests; analysis of variance; correlation and regression.

GRADUATE COURSES

ECO 5404 ECONOMIC PROGRAMMING AND CONTROL (3)
PR: GEB 3121, MAC 2244 or CI. 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 (3)
PR: ECO 3203 or GEB 6717 and GEB 3121 or GEB 6756, or CI. 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 6115 MICROECONOMICS (3)
PR: ECO 3101 or GEB 6716. Advanced analysis of microeconomic behavior of consumers, producers and resource suppliers. Topics covered: general concept of scarcity, conceptual models of demand, production, cost, and the firm and market organization.

ECO 6206 AGGREGATE ECONOMICS (3)
PR: ECO 3203 or GEB 6717. Advanced analysis of macroeconomic interrelationships determining the level of income, employment, prices, interest rates and economic growth rates as well as the impact of government policy upon these variables.

ECO 6216 MONETARY THEORY (3)
PRE: ECO 3203 or GEB 6717. Advanced discussion of the impact of the financial sector upon real and nominal economic magnitudes. The course emphasizes theoretical and empirical contributions found in the current literature as an extension of earlier work done in the field of monetary theory.

ECO 6305 HISTORY OF ECONOMIC THOUGHT (3)
PR: ECO 3101 or GEB 6716, or CI. Analysis of the main currents of modern economic thought during the last one hundred years.

ECO 6414 MANAGERIAL STATISTICS (3)
PR: GEB 6756. Techniques for statistical decisions under incomplete information. Prior probabilities, likelihoods and revised probabilities. Loss functions, Bayesian decision rules. Sequential decision strategies. Optimal decision revision.

ECO 6435 APPLIED FORECASTING (3)
PR: GEB 6756. Use of time series and cross sectional data for managerial control forecasting. Construction of index numbers. Extraction of time series components. Leading economic indicators, diffusion indices and intentions surveys. Cyclical fluctuations and spectral analysis. Input-output models, econometric studies and linear forecasts.

ECO 6436 ADVANCED BUSINESS FLUCTUATION & ECONOMIC FORECASTING (3)
PR: ECO 3203 or GEB 6717 and GEB 6756. Applications of statistical techniques to forecasting aggregate business activity, GNP and GNP components. Critical analysis of forecasting techniques and applications of forecasting methods to business decisions.

ECO 6506 PUBLIC FINANCE (3)
PR: ECO 3101 or GEB 6716. Examination of the role of the public sector and its contribution to economic welfare. Tax and expenditure policies are examined in relation to their effects on resource allocation and income distribution.

ECO 6507 SEMINAR IN PUBLIC FINANCE (3)
PR: ECO 6506. Contemporary public finance problems will be studied within a seminar format.

ECO 6706 INTERNATIONAL ECONOMICS (3)
PR: ECO 3203 or equivalent. International trade and monetary relations and their influence on macro and microeconomic activity. Policy issues in international economic relations are emphasized.

ECO 6906 INDEPENDENT STUDY (var.)
Independent study in which student must have a contract with an instructor. Repeatable (maximum of 6 hours). (S/U only.)

ECO 6916 RESEARCH METHODOLOGY (3)
PR: CI. Theoretical and empirical research. Selection of assumptions. Model construction. Specification of critical hypotheses. Design of experimental tests. Sources of data. Model evaluation and revision in light of test results. Scientific reporting.

ECO 6917 DIRECTED RESEARCH (var.)
PR: GR. Master's level. Repeatable (maximum of 6 hours.) (S/U only.)

ECO 6936 SELECTED TOPICS IN ECONOMICS (1-4)
PR: Graduate standing and CI. The course content will depend on student demand and instructor's interest.

ECO 6971 THESIS: MASTER'S (var.)
Repeatable. (S/U only.)

ECP 5403 INDUSTRIAL ORGANIZATION (3)
PR: ECO 3101 or GEB 6716. The economics of industrial organization. The study of the behavior of firms and the implications of such behavior on economic performance. The relationship between structure of industry and performance.

ECP 5404 SEMINAR IN INDUSTRIAL ORGANIZATION (3)
PR: ECP 5403. Contemporary industrial organization problems will be discussed in a seminar format.

ECP 5614 URBAN ECONOMICS (3)
PR: ECO 3101 or GEB 6716. The economics of urban areas including analysis of their growth and development as well as intraurban location patterns. Advanced economic analysis of urban problems.

ECP 6006 ECONOMICS OF CONFLICT (3)
PR: ECO 6115 or GEB 6716. Stress is placed upon the possible economic warfare and conflict embodied in theories of imperfect competition. The techniques for conflict resolution are analyzed, with emphasis upon bargaining theory, decision theory, and forms of collusion.

ECP 6206 MANPOWER ECONOMICS SEMINAR (3)
PR: ECO 3101 or GEB 6716 or ECO 6115. This course is designed to provide the student with a background in labor demand and supply topics, unemployment and manpower programs, discrimination in the labor market, labor market institutions, and labor force statistics.

ECP 6705 ADVANCED MANAGERIAL ECONOMICS (3)
PR: ECO 6115 or GEB 6716 and GEB 6756. Advanced study of decision-making in households, firms and not-for-profit institutions. Topics cover demand, production and cost, organizational goals, and efficiency vs. effectiveness.

FINANCE

Chairperson: P. Kares; *Professor Emeritus:* J. A. Close; *Professors:* A. Beenhakker, S. E. Bolten, R. G. Cox, J. R. Longstreet; *Associate Professors:* D. A. Johnson, S. D. Kapplin, R. L. Meyer, F. B. Power, R. J. Rivard, C. T. Smith, K. F. Wieand; *Assistant Professors:* M. Antia, W. G. Modrow; *Distinguished Lecturers:* C. Arlt, R. B. Brown, J. Hart; *Instructors:* J. B. Hooper, M. Kaplan, J. Rader, A. Waters, A. Winters, D. Wurst.

UNDERGRADUATE COURSES

FIN 2100 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.

FIN 2105 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.

FIN 3233 MONEY AND BANKING (3)
PR: ECO 2013. Examines the structure and operations of our monetary system, commercial banking, central banking, money, an capital markets, and provides an introduction to monetary theory and policy.

FIN 3403 PRINCIPLES OF FINANCE (3)

PR: ACC 2201 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 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 4524 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 4834 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 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 3040 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 4100 REAL ESTATE APPRAISAL (3)

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 4204 REAL ESTATE FINANCE (3)

PR: REE 4310. 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 4310 REAL ESTATE INVESTMENT ANALYSIS (3)

PR: FIN 3403, REE 3040. 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 of urban development patterns, and the role of taxation will be studied along with the application of analytical techniques for decision making. The course is not restricted to Finance majors.

RMI 3010 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 con-

cept, contracts, and institutions involved in insurance are examined in relationship to the socio-economic environment.

RMI 4110 LIFE, HEALTH, AND DISABILITY INSURANCE (3)

PR: GEB 3121, RMI 3010. 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 3010. 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 workmens compensation, public liability, auto liability, suretyship and crime insurances. Not limited to Finance majors.

RMI 4210 PROPERTY INSURANCE (3)

PR: RMI 3010. Course dealing with recognition of personal and business property risks, and coverages which may be used in dealing with these risks. Considers the underwriting, marketing, and social problems associated with these coverages. Topics include commercial and residential fire insurance, inland marine and transportation coverages, and multiperil contracts. Not limited to Finance majors.

GRADUATE COURSES**FIN 6246 ADVANCED MONEY AND CAPITAL MARKETS** (3)

PR: Macroeconomic Analysis or equivalent. The study of the role of financial markets in the economy. The course will investigate and analyze the effects and relationship between financial theory, financial institutions, and financial markets and their interactions and impacts on the economy. It includes the study of flow of funds, interest rate determination, and the pricing of capital assets.

FIN 6375 FINANCIAL PLANNING FOR HEALTH ORGANIZATIONS (3)

PR: Financial/Managerial Accounting. An examination of tools and techniques of financial management in the administration of Health Care Organizations. Cannot be taken for credit by students who have taken GEB 6725.

FIN 6446 FINANCIAL POLICY (3)

PR: GEB 6725 or CI. A case study approach to financial policy and strategy with an emphasis on major financial decisions in the area of external financing, mergers, acquisitions, recapitalization, and reorganization.

FIN 6605 INTERNATIONAL FINANCIAL MANAGEMENT (3)

PR: Financial Management or equivalent. The course provides a foundation for the understanding and appreciation of financial management of international business. The subject areas covered relate to: international finance, multinational business finance, and financial market theory.

FIN 6718 GOVERNMENTAL FINANCIAL PLANNING AND BUDGETING (3)

PR: Basic understanding of accounting and CI. A thorough investigation of planning, budgeting, and control for government, including: Budgeting procedures and methods for services and capital improvements (e.g., zero base budgeting); estimating local revenues and expenditures; methods of financing capital facilities, debt financing and administration; measures of efficiency and effectiveness; and management of cash.

FIN 6804 THEORY OF FINANCE (3)

PR: Financial Management or CI. A systematic and rigorous course in the theory of finance. Topics will include the theory of choice and the allocation of financial resources, the theory of optimal investment decisions, and the theory of risk and uncertainty in financial decisions. It will also cover the theoretical concepts underlying financing decisions and the cost of capital.

FIN 6816 INVESTMENTS (3)

PR: Financial Management. An examination of the risks and returns of alternative investment media within the framework of various valuation models. Special attention is given to the investment process and the criteria for investment decisions.

FIN 6906 INDEPENDENT STUDY (var.)

Independent study in which students must have a contract with an instructor. Repeatable. (S/U only.)

FIN 6915 DIRECTED RESEARCH (var.)

PR: GR. Master's level. Repeatable. (S/U only.)

FIN 6934 SELECTED TOPICS IN FINANCE

(1-4)

PR: Graduate standing and CI. A variable credit course depending upon the scope and magnitude of the work required. Includes special lecture series.

GENERAL BUSINESS ADMINISTRATION**UNDERGRADUATE COURSES****BUL 2111 LAW AND THE INDIVIDUAL**

(3)

A study of the nature, functions, sources, formulation, and administration of law with the special emphasis on the practical aspects of criminal, tort, estate, divorce, property, business, constitutional, and other areas of law. Not available for credit to students who have been admitted to the College of Business. (No credit for students with credit in BUL 3112.)

BUL 3112 BUSINESS LAW I

(3)

The nature of legal institutions, essentials of binding contract, remedies granted in event of breach of contract, and rights acquire by assignment of contracts.

BUL 3122 BUSINESS LAW 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.

COC 2201 COMPUTERS IN BUSINESS

(3)

A study of the use and impact of computers in all areas of business organizations. Course includes hands-on experience and the use of software packages for business analysis.

GEB 3211 BUSINESS COMMUNICATIONS

(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 3612 INFORMATION SYSTEMS: ANALYSIS AND DESIGN

(3)

PR: COC 2201. An advanced interdisciplinary examination of the impact of information systems on the business enterprise. Concepts of business systems analysis, information theory, transaction editing, file design, and update systems are developed.

GEB 4511 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 4901 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 4911 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.

GRADUATE COURSES**BUL 5665 LAW AND THE ACCOUNTANT**

(3)

PR: BUL 3112 or CI. A comprehensive study of commercial law as it affects the practice of accounting.

GEB 6905 INDEPENDENT STUDY

(var.)

Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

GEB 6915 DIRECTED RESEARCH

(var.)

PR: GR. Master's level. Repeatable. (S/U only.)

GEB 6971 THESIS: MASTER'S

(var.)

Repeatable. (S/U only.)

MAN 5806 ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT COUNSELING

(3)

Small business management consulting to an on-going firm or development of a business plan for a new enterprise. Emphasis on developing consulting skills and recognizing implications of entrepreneurs capabilities and attitudes for success.

MAN 5925 CBA WORKSHOP

(1-4)

Professional application workshop in various areas of finance, marketing, economics, accounting, management. May be repeated when subjects differ.

MAN 6721 INTEGRATIVE SEMINAR

(3)

PR: CC. The course is intended to provide a unifying, integrating, and coordinating opportunity to tie together concepts, principles, and skills learned separately in order, more specialized courses in Business Administration.

MANAGEMENT

Chairperson: H. M. Schroder; *Professors:* A. C. Bartlett, S. J. Birkin, R. E. Dutton, D. N. Harlow, M. Karling, H. M. Schroder, J. J. Sherman, K. R. Van Voorhis; *Associate Professors:* G. A. Balfour, T. E. Johnson, Jr., D. R. Kenerson, J. T. Knippen, J. Koehler, S. L. Roush, R. M. Walsh; *Assistant Professors:* H. C. Allen, F. Bruno, R. R. McGarth, R. L. Nixon, J. P. Vincelette, A. J. Waltz, M. J. White; *Instructor:* S. Moore; *Lecturers:* R. Gaiennie, C. McIntosh, Jr., H. W. Sterling.

UNDERGRADUATE COURSES**MAN 3010 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 3150 ORGANIZATIONAL BEHAVIOR ANALYSIS

(3)

PR: MAN 3010. 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 PERSONAL 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. Required course for Management majors.

MAN 3810 INTRODUCTION TO MANAGEMENT SCIENCE

(3)

A survey of management science techniques and their application to problem solving and decision making. Competency in college algebra is necessary. Required course for all business majors.

MAN 4120L MANAGERIAL BEHAVIORAL LABORATORY

(3)

PR: MAN 3150 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 4201 ORGANIZATIONAL ASSESSMENT

(3)

PR: MAN 3150. 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 4210 ORGANIZATIONAL DEVELOPMENT AND CHANGE

(3)

PR: MAN 3150 or CI. This course should be taken simultaneously with or after MAN 4201. 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 4410 LABOR RELATIONS LAW

(3)

A survey of the various legal constraints applicable to labor-management relations. Includes substantial library research. Assumes familiarity with industrial relations system.

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 4504 OPERATIONS MANAGEMENT: A SYSTEMS APPROACH (3)

PR: MAN 3810 or equivalent. Deals with problems of "operations" in all kinds of enterprises in both the public and private sectors. Emphasis is placed on the application of various decision science methodologies to problem situation.

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.

QMB 4600 QUANTITATIVE APPROACH FOR BUSINESS DECISIONS (3)

PR: MAN 3810. 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: MAN 3810 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.

GRADUATE COURSES**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 6055 HUMAN RESOURCE MANAGEMENT (3)

Course focuses on the complex decision-making processes involved in the management of human resources within an organizational system geared to meeting both individual needs and organizational objectives.

MAN 6061 ORGANIZATIONAL THEORY AND MEASUREMENT (3)

PR: GEB 6836 or CI. The identification and measurement of variables which influence the effectiveness of public and private organization including the assessment of managerial skills, organizational behavior, control systems, and work design.

MAN 6107 MANAGERIAL BEHAVIOR (3)

PR: GEB 6836 or CI. A laboratory approach to the understanding of patterns of interpersonal and inter-group behavior which are significant for the managerial role. Topics include perception expectation, motivation, leadership styles, decision making, conflict and competition.

MAN 6135 MANAGEMENT OF COMMUNICATION (3)

Communication as management is the focus of this course. Examined are the process, nature, and variables which comprise organizational communications.

MAN 6157 MANAGEMENT OF PROFESSIONALS (3)

PR: GEB 6836 or CI. Organizational behavior of professional employees is investigated through available theories and concepts. Concentration is placed on the manager's role, especially that of matching organizational demands with individual talents and expectations.

MAN 6219 THE MANAGEMENT OF ORGANIZATIONAL DEVELOPMENT AND CHANGE (3)

PR: GEB 6836 or CI. This course should be taken simultaneously with or following MAN 6061. A combination laboratory-field course requiring the integration of behavioral science theories, tools, concepts, and techniques learned in the lab to an OB application in a "real" organization.

MAN 6405 LABOR RELATIONS LAW (3)

A survey of the various legal constraints applicable to the employer-employee relationship. Included are such areas as collective bargaining, civil rights, and fair labor standards. Also offered under Economics.

MAN 6409 COLLECTIVE BARGAINING (3)

An examination of the historical, legal, and behavioral aspects of collective bargaining. Not open to students who have had a previous course in Industrial Relations.

MAN 6569 QUANTITATIVE APPLICATIONS FOR MANAGEMENT DECISIONS (3)

PR: GEB 6756 and GEB 6757. The integration of quantitative approaches and management science tools into the decision making process at various organizational levels and in various organizational settings involved in the production and dissemination of goods and services.

MAN 6601 INTERNATIONAL MANAGEMENT (3)

PR: GEB 6846 or CI. A study of the characteristics of the international and multinational company, environmental constraints, personnel and labor relations factors, and strategic planning and policies.

MAN 6851 SIMULATION OF ADMINISTRATIVE SYSTEMS (3)

PR: GEB 6757. A study of manual and computer simulation techniques and their application to administrative problem solving. The course emphasizes model design and construction; data collection and analysis; model validation; and implementation problems.

MAN 6905 INDEPENDENT STUDY (var.)

Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

MAN 6911 DIRECTED RESEARCH (var.)

PR: Graduate, Master's level. Repeatable. (S/U only.)

MAN 6930 SELECTED TOPICS (3)

Designed to be taken either under general guidance of faculty member on some facet of management not offered in a regular course, or with regularly scheduled graduate courses for more in-depth study.

MAN 6971 THESIS: MASTER'S (var.)

Repeatable. (S/U only.)

MARKETING

Chairperson: T. E. Ness; *Professors:* D. C. Sleeper, W. D. Stevens; *Associate Professors:* R. L. Anderson, S. A. Baumgarten, W. A. DeBord, J. S. Hensel, T. E. Ness, H. H. Towery; *Assistant Professors:* J. D. Carmichael, W. D. Haueisen, D. J. Ortinuau, M. T. Stith; *Instructor:* J. W. Oescher; *Lecturers:* W. E. Cook, D. E. Futhy; *Visiting Professors:* J. M. Bertotti, H. A. Lipson, M. I. Mandell, C. E. Vicent.

UNDERGRADUATE COURSES**MAR 3023 BASIC MARKETING (3)**

PR: ACC 2001, ECO 2013, ECO 2023, or CI. Survey of the marketing of goods and services within the economy. The integration of functional, commodity, and institutional approaches from the consumer and managerial viewpoints.

MAR 3613 MARKETING RESEARCH (3)

PR: GEB 3121, 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 3722 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 4153 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 4203 CHANNELS MANAGEMENT (3)

PR: MAR 3722. 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 3722, MAN 3810, GEB 3121. 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 4243 INTERNATIONAL MARKETING (3)

PR: MAR 3722. 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 4343 PROMOTION MANAGEMENT (3)

PR: MAR 3722 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 3722 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 3722. 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 3613, MAR 3722. A study of the basic concepts and research procedures utilized in investigating pre- and post-purchase buyer behavioral patterns, with emphasis on the impact of various behavioral factors on a buyer's decision-making process. Includes managerial applications in a variety of marketing situations.

MAR 4713 MARKETING MANAGEMENT PROBLEMS (3)

PR: MAR 3722, 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

ed 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.

GRADUATE COURSES

MAR 6216 LOGISTICS AND PHYSICAL DISTRIBUTION MANAGEMENT (3)

PR: GEB 6745, GEB 6756, GEB 6757, or CI. A study of managerial methods focusing on the establishment and control of optimum customer service levels in the areas of inventory, transportation, fixed facility location, material handling, and information. Component parts of each system are analyzed quantitatively. Reading, lecture, case analysis.

MAR 6257 INTERNATIONAL MARKETING MANAGEMENT (3)

PR: GEB 6745. A study of marketing management activities from the perspective of firms doing business across national boundaries. Emphasis is upon aspects of marketing which are unique to international business, and upon problem-solving within an international context.

MAR 6346 PROMOTIONAL MANAGEMENT (3)

PR: GEB 6745. Management of the promotional function as part of the total marketing program. Includes a study of relevant buyer behavior concepts, resources and budgets, media, creative aspects, and effectiveness measurements as they relate to the management tasks of developing, implementing and evaluating promotional strategy.

MAR 6406 SALES MANAGEMENT (3)

PR: GEB 6745. A study of the sales function of the firm approached from the perspective of the sales manager. Emphasis is placed upon the development of the student's problem-solving, decision-making, and analytical skills.

MAR 6316 RESEARCH FOR MARKETING MANAGERS (3)

PR: GEB 6745, GEB 6756, GEB 6775. A study of marketing research methods and information systems and their relationship to marketing decision making. Topics include value and cost of information, sample design, questionnaire design, statistical analysis, and report presentation. Lecture, reading, case analysis, project.

MAR 6706 MARKETING STRATEGY (3)

PR: GEB 6745. A study of the strategic marketing planning and problem-solving process as practiced by the modern market-oriented firm. The course is designed to develop marketing problem-solving, decision-making, and planning skills through the extensive use of case analysis.

MAR 6907 INDEPENDENT STUDY (var.)

Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

MAR 6916 DIRECTED RESEARCH (var.)

PR: GR. Master's level. Repeatable. (S/U only.)

MAR 6936 SELECTED TOPICS IN MARKETING (1-4)

PR: CC. The content and organization of this course will vary according to the interests of the faculty and students involved in any given term. May be repeated when subjects differ.

COLLEGE OF EDUCATION

ADULT AND VOCATIONAL EDUCATION

Chairperson: R. Hill; *Professors:* W. P. Danenburg, J. Selman; *Associate Professors:* H. G. Brady, C. H. Collier, M. W. Durso, R. Hill, F. F. Johnson, R. E. Palmer, G. E. Patterson, S. Thompson, C. Welter; *Assistant Professor:* W. E. Blank; *Visiting Professor:* R. Andreyka; *Visiting Assistant Professor:* A. Kerns; *Visiting Instructor:* D. Gibbs; *Visiting Coordinator:* W. Taylor.

ART EDUCATION

Chairperson: P. V. Czyzewski; *Professor:* R. L. Loveless; *Associate Professors:* H. C. Bryant, P. V. Czyzewski, J. B. Kase, B. J. Kazanis, A. Unruh

CHILDHOOD/LANGUAGE ARTS EDUCATION

Chairperson: L. C. Greabell; *Professors:* J. A. Chambers, L. C. Greabell, R. Linder, J. Long, L. McClellan; *Associate Professors:* B. C. Brantley, S. Forseth, F. S. Goforth, M. L. Mann, J. T. Polito; *Assistant Professors:* J. Clayback Linder, C. Spillman, A. Hanley; *Instructors:* W. E. Pearcey, C. J. Schwartz; *Visiting Assistant Professor:* J. Gelfer

COUNSELOR EDUCATION

Chairperson: V. J. Drapela; *Professors:* W. K. Bott, V. J. Drapela, D. G. Ferguson, E. E. Panther; *Associate Professor:* C. M. Story

EDUCATIONAL LEADERSHIP

Chairperson: A. Shapiro; *Professors:* W. W. Beasley, W. F. Benjamin, J. C. Bondi, P. E. McClendon, R. C. Ober, D. E. Orlosky, D. D. Peterson, D. M. Purdom, A. Shapiro, L. Tuttle, J. Wiles; *Associate Professors:* L. P. Cleary, L. T. Karns, T. W. Keene, R. F. Pride, M. G. Villeme

EDUCATIONAL MEASUREMENT AND RESEARCH

Chairperson: J. L. Mazur; *Professors:* B. W. Hall, W. G. Katzenmeyer, J. L. Mazur, J. H. Robinson, D. E. Stone, R. Wilk; *Associate Professor:* E. Caldwell, R. C. Blair, G. Hutchcraft; *Visiting Assistant Professor:* L. Carey

ELECTIVE PHYSICAL EDUCATION

Chairperson: R. Heesch; *Professors:* R. Heesch, G. Hertz; *Associate Professors:* R. Grindey, S. Prather, S. Taylor, J. Young; *Assistant Professor:* I. Trice

EXCEPTIONAL CHILD EDUCATION

Chairperson: A. J. Mauser; *Professors:* H. F. Boyd, R. C. Dwyer, G. O. Johnson, B. Lax, A. J. Mauser, S. P. Singh, D. D. Sisk; *Associate Professors:* R. Cline, E. Guetzloe, C. D. Lavelly, J. A. Merica, H. A. Sproles, M. Smitzes; *Lecturer:* J. C. Moore

LIBRARY, MEDIA, AND INFORMATION STUDIES

Chairperson: J. A. McCrossan; *Professor:* A. G. Smith, C. W. Engel; *Associate Professors:* J. K. Gates, J. M. Knejo, J. A. McCrossan, F. C. Pfister, T. C. Wilson; *Assistant Professors:* G. R. Barkholz, L. G. Chrisman, M. S. Lary

MATHEMATICS, SCIENCE AND HEALTH EDUCATION

Chairperson: E. R. Phillips; *Professors:* J. T. Bullock, B. K. Lichtenberg, D. R. Lichtenberg, L. E. Monley, E. R. Phillips, H. E. Steiner, A. M. Troutman, A. E. Uprichard; *Associate Professors:* F. D. Breit, R. G. Bruce, F. L. Prince, G. M. Weeks

MUSIC EDUCATION

Chairperson: L. Cullison; *Professors:* V. A. Bridges, L. Cullison

PROFESSIONAL PHYSICAL EDUCATION

Chairperson: L. E. Bowers; *Professors:* L. E. Bowers, H. A. Hoffman, S. E. Klesius, C. D. Smith; *Associate Professors:* B. L. Beasley, H. Weinberg; *Assistant Professors:* S. J. Bratt, W. D. Hall, J. F. Young; *Visiting Instructor:* W. T. Price

PSYCHOLOGICAL AND SOCIAL FOUNDATIONS

Chairperson: J. C. Follman; *Professors:* E. C. Anderson, J. Barnard, J. A. Battle, D. E. Bostow, W. W. Burley, J. C. Dickinson, J. C. Follman,

O. G. Geiger, E. V. Johanningmeier, E. B. Kimmel, D. L. Lantz, C. C. Manker, W. L. Musgrove, S. H. Silverman; *Associate Professors:* D. L. Carroll, G. H. Kincaid, W. T. Bridges

READING EDUCATION

Coordinator: E. F. Searls; *Professors:* A. J. Lowe, D. D. Neville; *Associate Professors:* F. W. Freshour, H. P. Pfost, E. F. Searls, G. M. Towery; *Assistant Professors:* B. K. Clarke, J. P. Klesius; *Visiting Assistant Professor:* S. P. Homan

SOCIAL SCIENCE/LETTERS

Chairperson: R. E. Johnson; *Professors:* R. E. Johnson, H. G. Karl, P. J. Newcombe, D. J. Puglisi, W. W. West; *Associate Professors:* M. S. Holland, J. W. Levy, V. W. Whitney

ADMINISTRATION/SUPERVISION

GRADUATE COURSES

EDA 6061 PRINCIPLES OF EDUCATIONAL ADMINISTRATION (4)

Educational administration as a profession. Consideration or organization, control, and support of the educational system.

EDA 6106 ADMINISTRATION ANALYSIS AND CHANGE (4)

A competency based course on the application of function analysis, the Critical Incident technique and the Delphi technique to the identification, assignment, and evaluation of administrative tasks within selected organizational settings.

EDA 6232 SCHOOL LAW (4)

Basic essentials of school law. A review of court decisions affecting American education, with emphasis on Florida State Statutes.

EDA 6242 SCHOOL FINANCE (4)

PR: EDA 6061 or CI. Financial support of public education by local, state, federal sources, with emphasis on Florida; introduction to educational budgeting.

EDA 6243 SCHOOL FISCAL RESOURCE

ALLOCATION (3)

PR: CI. Concepts and practices in allocation and accountability of financial resources in the schools. The use of systems concepts in school budgeting, including prioritizing of alternatives, PPBS and zero-based budget techniques, school-based management allocation models. Also available in workshop version. Available to majors and non-majors.

EDA 6262 PLANNING EDUCATIONAL FACILITIES (4)

PR: CI. Problems in the planning, construction, and use of educational facilities. Visitation and/or evaluation of selected schools.

EDA 6910 DIRECTED RESEARCH (var.)

PR: GR. Master's level. Repeatable. (S/U only.)

EDA 6931 CASE STUDIES IN SCHOOL ADMINISTRATION (4)

PR: CI or EDA 6061. Case studies to help prospective administrators understand administrative problems, propose feasible solutions, and evaluate courses of action. The course develops skill in decision making.

EDA 6945 ADMINISTRATION PRACTICUM (3-8)

PR: Completion of a significant amount of the student's program. Field experiences in school systems for the purpose of identifying and analyzing educational problems. Application of concepts developed in the student's program to the solution of these problems.

EDA 7222 ADMINISTRATION OF SCHOOL PERSONNEL

POLICIES AND PRACTICES (4)

PR: Certification in Administration/Supervision and/or CI. Administration of school personnel policies and practices relating to professional staff, supporting staff, and students.

EDA 7233 LEGAL DIMENSIONS OF SCHOOL

ADMINISTRATION (4)

PR: CI, EDA 6232 School Law or equivalent recent course. Historical perspective in law and education with in-depth reviews of case law showing the evolution of courts as educational policy makers.

EDA 7247 ADVANCED SCHOOL FINANCE (4)

PR: EDA 6242 or CI. Advanced treatment of school finance. Development, implementation, and evaluation of financial resource and allocation systems. Emphasis is on intradistrict allocation.

EDS 6050 PRINCIPLES AND PRACTICES OF EDUCATIONAL SUPERVISION (4)

Principles and practices of instructional supervision including role definitions of supervision, analysis of role conflict, needs assessments, supervising the planning of instruction, and observing the delivery of instruction.

EDS 6239 PROBLEMS IN SUPERVISION (4)

PR: CI or EDS 6050. The analysis of instructional problems in schools. Emphasis of the course is directed to supervisory tasks, case studies, and the application of problem solving techniques and strategies.

EDS 7130 TEACHER EVALUATION: PROCESS AND INSTRUMENTS (4)

PR: Certification in Educational Administration/Supervision and/or CI. Study of the development of teacher evaluation theory and the application of that theory to the practice of teacher evaluation.

ADULT EDUCATION**UNDERGRADUATE COURSES****ADE 4360 METHODS OF TEACHING: ADULT EDUCATION (3)**

Methods, techniques, and materials for instruction.

ADE 4361 SPECIAL TEACHING METHODS: ADULT EDUCATION (4)

Methods, techniques, and materials for skill development.

ADE 4945 SUPERVISED FIELD EXPERIENCE: ADULT 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.

GRADUATE COURSES**ADE 5160 PROGRAM MANAGEMENT: ADULT EDUCATION (4)**

This course examines the establishment of organizational climate and structure, assessing needs and interest, designing, operating and evaluating comprehensive adult programs.

ADE 5161 CURRICULUM CONSTRUCTION: ADULT EDUCATION (4)

Curriculum scope, the process of planning and organizing instructional programs with emphasis on task analysis and process evaluation.

ADE 5385 THE ADULT LEARNER (4)

The physiological and psychological changes in the adult life span and the implications which these changes have for adult learning capabilities. Significant research in adult learning are identified and analyzed. Course is available to majors and non-majors.

ADE 6080 ADULT EDUCATION IN THE UNITED STATES (4)

PRL: ADE 5385 or equivalent or CI. A study of the adult education movement in the United States from its beginnings to the present life long learning enterprise it has become. Economic and cultural factors of the past are examined with a view toward implications for the future.

ADE 6197 ADULT BASIC EDUCATION: ADULT EDUCATION (4)

An overview of adult basic education with emphasis on current issues and problems of curriculum and instruction in program development with emphasis on culturally different adults.

ADE 6380 ADMINISTRATION OF LOCAL PROGRAMS: ADULT EDUCATION (4)

A study of the organization, selection of personnel, assignment of duties and responsibilities, and establishment of policies and procedures to accomplish the objectives of the local program within the federal, state, and local requirements.

ADE 6387 SUPERVISION OF LOCAL PROGRAMS: ADULT EDUCATION

A study of the factors involved in the supervision of instruction including plans for teacher education, improvement of instruction, coordination of activities, and personnel relations.

ADE 6946 PRACTICUM: ADULT EDUCATION (3-6)

A problem-centered field study in the local community, school, government, office, social agency, business or industry.

ADE 7185 COMMUNITY EDUCATION AND PROGRAM DEVELOPMENT (4)

Examines the sociological and economical forces affecting community education programs and activities. Also the concept of lifelong learning and its relationship to the development of community educational programs is examined.

ADE 7388 ADULT DEVELOPMENT AND LEARNING (3)

PR: ADE 5385, The Adult Learner or equivalent. This is an advanced graduate course which provides an in-depth study of the distinctive characteristics of adult life and adult learning.

ART EDUCATION**UNDERGRADUATE COURSES****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 4411 EDUCATION THROUGH FILM (3)

A study of basic experimental film techniques and laboratory experiences with children in the public schools, community centers, and non-school arts programs.

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 4905 INDEPENDENT STUDY: ART 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.)

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.)

ARE 4945 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 year experiences when taken in Fall Semester. S/U only.

ARE 4946 INTERNSHIP (1-2)

PR: Admission to the College of Education and/or department approval. Internship with an accredited public or private school which will include the end of an academic year or program closing. S/U only.

EDG 4451 EDUCATION THROUGH DRAMA (3)

A study of the dramatic process as intrinsic in human development, this course is designed to enrich the education of pre-service teachers by providing training in the use of creative drama and related forms of improvised drama in the classroom.

EDG 4452 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.

EDG 4453 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.

EDG 4454 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.

GRADUATE COURSES

ARE 6262 MANAGEMENT DESIGN FOR ART INSTITUTIONS (3)

Principles of administration and supervision of art programs in the school.

ARE 6706 BASIS OF INQUIRY IN THE ARTS (3)

PR: ARE 6844 or CI. Literature and research in art education. Various approaches to problem solving and evaluation with emphasis on individual research.

ARE 6844 EXPERIENTIAL AND THEORETICAL BASIS OF ARTISTIC MIND (3)

Past and contemporary philosophies and practices in art education.

ARE 6944 FIELD WORK IN ART EDUCATION (1-4)

For students with degree-seeking status. Supervised participation in activities related to art education in community centers, nonschool arts program, planned workshop and research.

EDG 6455 EDUCATION THROUGH ADVANCED DRAMA (3)

Theories and methods of teaching creative drama and related forms of improvised drama and playmaking with supervised teaching of creative dramatics in a school environment.

BUSINESS AND OFFICE EDUCATION

UNDERGRADUATE COURSES

BTE 2060 BASIC TYPEWRITING (3)

Basic keyboarding introduced during the first two weeks. Thereafter, the psychological principles of skill building and basic keyboarding applications are emphasized.

BTE 3031 OFFICE INFORMATION PROCESSING (3)

PR: BTE 2060 or equivalent competencies. 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 non-majors.

BTE 3032 OFFICE INFORMATION PROCESSING II (3)

PR: BTE 3031. 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.

BTE 3061 TYPEWRITING APPLICATIONS (3)

PR: BTE 2060 or equivalent competencies. Advanced keyboard applications; study of the methods and psychological principles appropriate to the teaching of advanced typewriting courses.

BTE 3363 BUSINESS AND OFFICE MACHINES (3)

PR: Basic Typewriting. Instruction and practice on selected business and office machines to acquaint students with capabilities and limitations of the machines.

BTE 3365 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. Also includes the methodology necessary for teaching these areas in either separate courses or integrated block programs.

BTE 4063 PRINCIPLES OF SHORTHAND (4)

PR: Completion of upper level competency test or CI. Relation of techniques for teaching basic principles of response and temporal continuity as related to basic shorthand theory. Includes concurrent lab.

BTE 4064 INTERMEDIATE SHORTHAND (3)

PR: BTE 4063 or equivalent competency to include teaching strategies for theory sequencing. Advanced course in theoretical applications with emphasis on teaching techniques for development of speed, kinesthetic chained response, and specialized pre-transcription techniques. Includes concurrent lab.

BTE 4151 SHORTHAND DICTATION & TRANSCRIPTION (3)

PR: BTE 4064 or equivalent competency levels. Comparative symbol shorthand systems and teaching methodology in developing advanced dictation and transcription skills within a selected symbol system. Emphasis on teaching shorthand as a language tool, development of decision making skills, and factors which affect production rate. Includes concurrent lab.

BTE 4360 METHODS OF TEACHING: BUSINESS EDUCATION (4)

PR: Introduction to Computers I or equivalent. Satisfactory competencies in Office Administration Concentration, or CI. Methods, techniques and materials for instruction.

BTE 4364 SPECIAL TEACHING METHODS: BUSINESS EDUCATION (4)

PR: Speech Improvement and Phonetics, satisfactory competencies in Office Technology Concentration, or CI. Methods, techniques, and materials for skill development.

BTE 4369 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.

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 4945 SUPERVISED FIELD EXPERIENCE: BUSINESS 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.

BTE 4946 INTERNSHIP (1-2)

PR: Admission to College of Education and/or departmental approval. Internship in an accredited public or private school which will include the end of an academic year or program closing. (S/U only.)

BTE 4948 FIELD-BASED SEMINAR IN BUSINESS EDUCATION (3)

CR: BTE 4360 and BTE 4364. Supervised field experience and orientation to broad field business education. Specifically designed to be preparatory for the internship which occurs the following term. (S/U only.)

GRADUATE COURSES

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.

BTE 6385 IMPROVEMENT OF METHODS OF TYPEWRITING INSTRUCTION

(3)

PR: EDF 6431, EDF 6481 or CI. Research-based study of methodology and psychology of teaching typewriting. Includes techniques for developing specialized instructional materials and equipment for the exceptional student.

BTE 6386 THEORIES OF BASIC BUSINESS & ACCOUNTING INSTRUCTION

(3)

PR: Methods of Teaching or equivalent, EDF 6481 or CI. This course contains a research-based study of theory and methodology in teaching basic business and accounting subjects. The course is available to majors and non-majors and for credit and non-credit workshops and seminars.

BTE 6387 RESEARCH IMPLICATIONS FOR SHORTHAND PEDAGOGY

(3)

PR: EDF 6481 or CI. Research-based study of methodology and prognosis in the teaching of shorthand as a language skill. Available for credit and non-credit workshops and seminars.

BTE 6944 PRACTICUM: BUSINESS EDUCATION

(3-6)

A problem-centered field study in the local community, school, government, office, social agency, business or industry.

SPEECH

COMMUNICATION EDUCATION

GRADUATE COURSES

EDG 7365 RESEARCH IN COMMUNICATION EDUCATION

(3)

PR: Master's Degree in Communication Education Area or CI. A survey of exemplary research studies in Communication/Speech Education, English Education, Language Development and Analysis, Mass Communication Education, and Theatre Education, including analysis of design and methodologies.

SED 4945 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 year experiences when taken in Fall Semester. S/U only.

SED 4946 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 an academic year of program closing. S/U only.

SED 6070 SEMINAR IN THE HISTORY OF SPEECH COMMUNICATION IN EDUCATION

(3)

PR: CI. Studies in selected courses, critical writings, and research which have contributed to the development of speech communication as an academic discipline.

SED 6670 CURRENT TRENDS IN TEACHING SPEECH COMMUNICATION

(3)

PR: CI. Curricular patterns; preparation of personnel; instructional materials, facilities and practices used in teaching speech communication.

COUNSELOR EDUCATION

UNDERGRADUATE COURSES

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.)

GRADUATE COURSES

EGC 5101 HUMAN RELATIONS SKILLS IN GUIDANCE

(4)

Introduction to the theory of human relations dynamics and development of skills required for effective interpersonal relations. Lecture sessions and laboratory training.

EGC 6006 PRINCIPLES AND ORGANIZATION OF GUIDANCE

(4)

Required first course for majors in guidance and counseling; an elective for students in other programs. Guidance as a profession; its philosophical framework; its scope and functions; its organization and administration in various settings.

EGC 6105 COMPARATIVE GUIDANCE AND COUNSELING

(3)

PR: CI. Study of guidance theories and practices in selected foreign countries as compared with the American guidance model. Evaluation of foreign guidance through critical analysis of primary sources. For example: guidance philosophy and practice in countries of the Soviet Bloc, Western Europe, and Latin America.

EGC 6225 APPRAISAL PROCEDURES IN GUIDANCE

(4)

PR: EDF 6431, EGC 6005. A study of test and non-test techniques of appraisal with emphasis on the use of standardized test data in guidance programs and the use of the individual case study approach.

EGC 6306 INFORMATION SERVICE AND CAREER GUIDANCE

(4)

PR: EGC 6006. Study of the information service in guidance as it relates to the total life style and career development. Theories dealing with career planning. Application of educational, vocational, and personal-social information resources to lifelong human development.

EGC 6435 COUNSELING THEORIES AND PRACTICES

(4)

PR: EDF 6354 and EGC 6005. Nature of the counseling process with emphasis on major theoretical approaches, supervised practice, and application. Focuses upon working with adolescents and adults; includes attention to (a) philosophic bases of helping relationships and (b) consultation theory and practice.

EGC 6464 THE COUNSELING SERVICE IN GUIDANCE AND ELEMENTARY SCHOOLS

(4)

PR: EDF 6354 and EGC 6005. Nature of the counseling process with emphasis on major theoretical approaches, supervised practice, and application. Focuses upon working with elementary age children, and consultations with parents and teachers.

EGC 6472 COUNSELING SPECIAL POPULATION GROUPS

(2)

PR: EGC 6435 or EGC 6464. Application of counseling theory to work with clients from special population groups, e.g., ethnic minorities, women reentering the labor force, and older persons. Each student will select a specific population group for supervised research.

EGC 6509 GROUP THEORY AND PRACTICUM: ELEMENTARY SCHOOL

(4)

PR: EGC 6464. Experiential study of group structures, group dynamics, methodology, and leadership models applicable to counseling and guidance in the elementary schools. Skill building through supervised practicum in leading groups of elementary school children.

EGC 6510 GROUP THEORY AND PRACTICUM: ADOLESCENTS AND ADULTS

(4)

PR: EGC 6435. Experiential study of group structures, group dynamics, methodology, and leadership models applicable to counseling adolescents and adults. Skill building through supervised practicum in leading groups of adolescents or adults.

EGC 6830 PRACTICUM IN ELEMENTARY GUIDANCE COUNSELING AND CONSULTING

(4)

PR: CC. Supervised counseling experiences for integration of knowledge and skills gained in didactic study. Focus upon working with elementary age children, parent and teachers. (S/U only.)

EGC 6835 PRACTICUM IN SECONDARY SCHOOL GUIDANCE COUNSELING

(4)

PR: CC. Supervised counseling experiences for integration and application of knowledge and skills gained in didactic study. Focus is upon working with adolescents and adults. (S/U only.)

EGC 6905 INDIVIDUAL STUDY (1-4)

PR: CI. Independent study, research and experience relating to guidance and pupil personnel services under the supervision of a member of the Counselor Education faculty. May be repeated for a maximum of four hours.

EGC 6935 SEMINAR IN GUIDANCE (1-2)

PR or CR: EGC 6006, CI. Significant issues in the field of guidance; topics for discussion will vary according to needs and interests of students. May be repeated for credit for a maximum of four hours. (S/U only.)

EGC 6947 INTERNSHIP I: COUNSELING PRACTICUM (4)

PR: CC. Initial internship experience for graduate students in Plan II. It is to coincide with the beginning of instruction (fall) in the public schools. A field experience involving orientation activities for pupils in the elementary or secondary setting; counseling with students individually; consultation with parents, teachers, administrators and fellow professionals. The total time spent in the school setting must be at least 45 hours. (S/U only.)

EGC 6948 INTERNSHIP II: COMPREHENSIVE GUIDANCE (6)

PR: CC. Field experience involving one semester of full-time participation in all guidance-related activities in an elementary or secondary school setting (classroom guidance, individual and group counseling, assessment/evaluation, staffing, record keeping, etc.). Internship II has to include guidance activities typically offered to pupils at the end of the school year. (S/U only.)

EGC 7437 ADVANCED COUNSELING: THEORIES AND PRACTICUM (5)

PR: CC. Advanced study of major counseling theories and their application in therapeutic work with individual clients and with groups in a variety of settings. Supervised practice in individual and group counseling with emphasis on integration of theory and practice.

EGC 7446 CONSULTATION AND SUPERVISION: THEORIES AND PRACTICUM (5)

PR: CC. Theory and methodology of consultation; the role of the counseling professional as consultant and as supervisor of counselor trainees and counseling practitioners. Practice learning experiences in consulting and supervision under faculty direction.

EGC 7894 ADVANCED INTERNSHIP IN COUNSELOR EDUCATION (2-8)

PR: CC. Supervised field experiences in an approved agency, educational institution or industrial setting: counseling, consulting, supervision, applied research, administration, and evaluation of counseling/guidance services. (Repeatable up to eight semester hours. S/U only.)

EGC 7935 ADVANCED SEMINAR IN COUNSELOR EDUCATION (2)

PR: CI. Seminar for advanced graduate students in counselor education. Issues and trends in Guidance and Counseling will be studied and discussed. May be repeated for two additional credit hours. (S/U only.)

CURRICULUM

UNDERGRADUATE COURSES

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 (S/U only.)

EDG 4200 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.

EDG 4901 DIRECTED READINGS (1-3)

May be repeated for a total of 3 semester hours.

EDG 4905 INDEPENDENT STUDY (1-4)

PR: CI. Specialized independent study determined by the students' needs and interests. May be repeated when subjects vary. (S/U only.)

EDG 4909 DIRECTED STUDY (1-3)

PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

EDG 4910 INDIVIDUAL RESEARCH (1-3)

PR: Senior standing and consent of program coordinator.

EDG 4936 SENIOR SEMINAR IN EDUCATION (2)

PR: Senior standing. Synthesis of teacher candidate's courses in complete college program. Required concurrently with internship.

EDG 4940 INTERNSHIP (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.)

GRADUATE COURSES

EDE 5391 CREATIVE PROBLEM SOLVING FOR THE CHILD (4)

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.

EDG 6205 SCHOOL CURRICULUM: ELEMENTARY (4)

PR: EDG 4200 or equivalent. Designed to examine the organization, curriculum, and instruction of the elementary school with special emphasis on the nature of the student served in the elementary school. Open to all education graduate students.

EDG 5206 CURRICULUM AND INSTRUCTION (4)

A study of a systematic approach to making curriculum and instructional decisions in the classroom.

EDG 5925 EDUCATION WORKSHOP (1-4)

Workshop for the improvement of the curriculum of an elementary or secondary school. Open only to teachers in service. Complete faculty participation required.

EDG 6250 FOUNDATIONS OF CURRICULUM AND INSTRUCTION (4)

PR: EDG 4200 or 5206 or equivalent. An introductory course in curriculum and instruction at the graduate level, basic to all specialized courses in the field. Emphasis on foundations, design, basic concepts, and theory and trends of curriculum from early childhood through secondary levels. The course is open to all graduate students.

EDG 6251 SCHOOL CURRICULUM IMPROVEMENT (3)

Workshop for the improvement of the curriculum of an elementary or secondary school. Open only to teachers in service. Complete faculty participation required.

EDG 6693 PROBLEMS IN CURRICULUM AND INSTRUCTION: ELEMENTARY (1-4)

PR: EDG 4200 or equivalent. For teachers, supervisors, and administrators. Curricular and instructional problems of the elementary school. Common problems or problems of special interest to the participants. Normally, for certification requirements only.

EDG 6694 PROBLEMS IN CURRICULUM AND INSTRUCTION: MIDDLE SCHOOL (1-4)

PR: EDG 4200 or equivalent. For teachers, supervisors, and administrators. Curricular and instructional problems of the middle school. Common problems or problems of special interest to the participants. Normally, for certification requirements only.

EDG 6695 PROBLEMS IN CURRICULUM AND INSTRUCTION: SECONDARY (1-4)

PR: EDG 4200 or equivalent. For teachers, supervisors, and administrators. Curricular and instructional problems of the secondary school. Common problems or problems of special interest to the participants. Normally, for certification requirements only.

EDG 6906 INDEPENDENT STUDY (var.)

Independent study in which students must have a contract with an instructor. Repeatable. (S/U only.)

EDG 6931 SELECTED TOPICS IN EDUCATION (1-4)

PR: Graduate standing and CI. Each topic is a course under the supervision of a faculty member. The title and content will vary according to the topic.

EDG 6947 INTERNSHIP (1-9)

PR: CI. Open to graduate degree candidates only. Supervised teaching at the secondary or junior college level as appropriate. (S/U only.)

EDG 6971 THESIS: MASTERS/EDUCATION SPECIALIST (var.)

For students in M.A. and Ed.S. programs requiring a thesis. This project is a culminating, integrating experience which aims at relating theory to practice. Repeatable. (S/U only.)

EDG 7325 ANALYSIS OF TEACHING (4)

PR: EDG 6250 or CI. Develops skills in systematic observation. Study and development of related research design models.

EDG 7667 ANALYSIS OF CURRICULUM AND INSTRUCTION (4)
PR: EDG 6250 or equivalent. A study of various theoretical frameworks for analyzing curriculum and instruction. Emphasis on rational models of curriculum inquiry.

EDG 7692 ISSUES IN CURRICULUM AND INSTRUCTION (4)
PR: EDG 6250. Identification and analysis of major problems and issues in curriculum and instruction. Critical examination of efforts to deal with these issues.

EDG 7910 DIRECTED RESEARCH (var.)
PR: GR. Ph.D. level. Repeatable. (S/U only.)

EDG 7931 SELECTED TOPICS (1-4)
PR: CC. Selected topics in advanced Education. May be repeated for credit to a maximum of 12 hours.

EDG 7937 GRADUATE SEMINAR (1-4)
PR: CC. Seminar in advanced Education. May be repeated for credit to a maximum of 12 hours.

EDG 7980 DISSERTATION: DOCTORAL (var.)
PR: Must be admitted to Doctoral Candidacy. Repeatable. (S/U only.)

EDM 6235 SCHOOL CURRICULUM: MIDDLE (4)
PR: EDG 4200 or equivalent. Designed to examine the organization, curriculum, and instruction of the middle school with special emphasis on the nature of the student served in the middle school. Open to all education graduate students.

ESE 6215 SCHOOL CURRICULUM: SECONDARY (4)
PR: EDG 4200 or equivalent. Designed to examine the organization, curriculum, and instruction of the secondary school with special emphasis on the nature of the student served in the secondary school. Open to all education graduate students.

ESE 6306 SUBJECT SPECIALIZATION PLANNING SECONDARY (3)
Individually planned course in a secondary school subject area for in-service teachers.

LAE 5131 CURRICULUM PLANNING AND DEVELOPMENT IN SECONDARY ENGLISH (3)
PR: Certification in English or Mass Communications. Examination of new curricular policies and procedures relating to the teaching of English in the secondary school.

LAE 5137 CURRICULUM EVALUATION IN SECONDARY ENGLISH (3)
PR: Certification in English or Mass Communications. Examination of new evaluation policies and procedures relating to curricula in English in the secondary school.

DISTRIBUTIVE AND MARKETING EDUCATION

UNDERGRADUATE COURSES

DEC 4174 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 4362 SPECIAL TEACHING METHODS: DISTRIBUTIVE EDUCATION (4)
Methods, techniques, and materials for skill development.

DEC 4382 METHODS OF TEACHING: DISTRIBUTIVE EDUCATION (3)
Methods, techniques, and materials for instruction.

DEC 4905 INDEPENDENT STUDY: DISTRIBUTIVE AND MARKETING EDUCATION
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

DEC 4909 DIRECTED STUDY: DISTRIBUTIVE AND MARKETING EDUCATION (1-3)
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

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 4945 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 year experiences when taken in Fall Semester. S/U only.

DEC 4946 INTERNSHIP (1-2)

PR: Admission to the College of Education and/or departmental approval. Internship is an accredited public or private school which will include the end of an academic year or program closing. S/U only.

GRADUATE COURSES

DEC 5175 PROGRAM MANAGEMENT: DISTRIBUTIVE EDUCATION (3)

Organization, coordination, and budgeting of adult, cooperative, and special programs.

DEC 5185 CURRICULUM CONSTRUCTION: DISTRIBUTIVE EDUCATION (3)

Curriculum scope, the process of planning and organizing instructional programs with emphasis on task analysis and process evaluation.

DEC 6945 PRACTICUM: DISTRIBUTIVE EDUCATION (3-6)

A problem-centered field study in the local community, school, government, office, social agency, business, or industry.

ELEMENTARY EDUCATION

UNDERGRADUATE COURSES

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 Elementary EDG 4200. 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: Successful completion of two semesters of EDE 4942. 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 EDE 4936. (S/U only.)

EDE 4941 CHILDHOOD EDUCATION INTERNSHIP LEVEL I (4)

PR: Application for 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 4200-Elementary section. (S/U only.)

EDE 4942 CHILDHOOD EDUCATION INTERNSHIP LEVEL II (4-8)

PR: Satisfactory completion of EDE 4941. Students spend six hours per week in a supervised internship experience in classroom settings and attend a weekly seminar. Students must enroll in EDE 4942 for two semesters for a total of 8 semester hours. (S/U only.)

EEC 2003 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 4460 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, Number Systems, Basic Algebraic Concepts, Informal Geometry, or equivalent, and a passing score on the College of Education Test of Mathematical Competencies. Methods for teaching number ideas, computation skills, and mathematical reasoning.

MAE 4311 TEACHING ELEMENTARY SCHOOL MATHEMATICS II (2)

PR: MAE 4310. Methods for teaching informal geometry, measurement, and probability and statistics.

MAE 4545 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 4315 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 SCIENCE FOR THE CHILD (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.

GRADUATE COURSES**ARE 6358 ART FOR THE ELEMENTARY SCHOOL TEACHER (3)**

Exploration of various materials and techniques in relationship to current theories about art and the intellectual creative, emotional and esthetic growth of children.

EDE 5541 INDIVIDUALIZED INSTRUCTION IN THE ELEMENTARY SCHOOL (3)

PR: Senior or Graduate standing in the College of Education or CI. A study of selected methods and materials available for the implementation of individualized instruction in grades K-6.

EDE 6305 CREATIVE TEACHING IN THE ELEMENTARY SCHOOL (3)

Creative processes in the teaching of visual arts, music, dance, and drama to elementary school pupils.

EDG 6935 SEMINAR IN CURRICULUM RESEARCH (1-3)

PR: EDF 6481. Critical evaluation of current research and curriculum literature, design and analysis of individual research topics leading to satisfaction of research requirements.

EDS 6930 PROBLEMS IN SUPERVISION (3)

PR: EDF 6481 or equivalent and EDS 6050. Problems in supervising for curriculum improvement within the elementary school.

EEC 5406 SOCIAL GROWTH IN CHILDHOOD (3)

PR: Admission to College of Education. A study of the principal factors which influence the social development of young children with particular emphasis upon those cultural influences which affect both child development and the educational programs for the young child.

EEC 5705 INTELLECTUAL GROWTH IN CHILDHOOD (3)

Intellectual development of the normal child with particular emphasis on the studies of Jean Piaget and how they relate to curriculum for children, ages 0-8. Child study through observation required.

EEC 5926 WORKSHOP IN EARLY CHILDHOOD EDUCATION (3)

PR: Admission to College of Education. Individual problems and innovations related to methods and materials of instruction in the early childhood grades.

EEC 6261 ADVANCED PROGRAMS IN EARLY CHILDHOOD EDUCATION (3)

PR: EDF 6431, EEC 4203 or CI. A study of innovative curriculum designs in Early Childhood Education, with emphasis given to related research.

EEC 6405 HOME-SCHOOL-COMMUNITY INTERACTION IN EARLY CHILDHOOD EDUCATION (3)

PR: EDF 6431, EEC 4203 or CI. An intensive study of the roles of parents, teacher aides, and community agencies involved in the education of the young child.

LAE 6301 LANGUAGE LEARNING IN CHILDHOOD (3)

PR: Graduate standing in the College of Education. The study of research which has been used to assess the language behavior of normal children. Attention will also be given to the application of selected research methodology to understanding linguistic behavior of children.

LAE 6415 LITERATURE AND THE LEARNER (3)

This course is designed to acquaint adults with the nature, scope and uses of literature for instructional, information and recreational purposes. The implication of current theory, significant research and issues in literature study will be investigated and examined as they relate to the learner.

LAE 6616 TRENDS IN LANGUAGE ARTS INSTRUCTION (3)

PR: LAE 4314 or equivalent or CI. A study of significant concepts, emerging trends, research and instructional techniques for implementation and utilization of language arts in all areas of the curriculum.

LAE 7617 THEORIES AND PATTERNS OF ADVANCED**LANGUAGE ARTS INSTRUCTION (3)**

PR: LAE 6616 or equivalent. This course is organized to present new research findings and theories relating to language patterns and contemporary programs designed for teaching language arts.

LAE 7746 APPLICATIONS OF THEORIES TO THE**DEVELOPMENT OF LANGUAGE ARTS PROGRAMS (3)**

PR: LAE 6616 or equivalent; and LAE 7617. This course is designed to apply research finding and theories for developing and organizing instructional improvement of the language arts.

LAE 7747 LITERATURE PROGRAM DESIGN (3)

PR: EDF 6481, LAE 6415, or LAE 6336, or equivalent, or CI. Advanced graduate standing. Investigation and analysis of the research in literature instruction and the application of the findings to the development of literature programs.

MAE 6116 CURRENT TRENDS IN ELEMENTARY**MATHEMATICS EDUCATION (3)**

PR: MAE 4310 or equivalent. Philosophy, content and process of qualitative instruction in modern mathematics in elementary school programs.

MAE 6548 ADVANCED DIAGNOSIS AND TREATMENT**OF LEARNING DISABILITIES IN SCHOOL MATHEMATICS (3)**

PR: MAE 4310 or equivalent. Study of the symptoms, etiologies and consequences of children's learning disabilities in mathematics; study and guided application of theoretical models used in diagnosis and treatment; supervised conduct of a case study.

MAE 6549 ADVANCED PRACTICUM IN DIAGNOSIS AND TREATMENT OF LEARNING DISABILITIES IN SCHOOL MATHEMATICS (1-6)

PR: MAE 6548. Supervised conduct of a case study with a student experiencing learning difficulties in mathematics. Procedures used and reporting practice employed developed in MAE 6548 reviewed and extended.

RED 6116 FOUNDATIONS OF ELEMENTARY READING**INSTRUCTION (3)**

PR: RED 4310 or equivalent course. Study of approaches, materials, and procedures in Elementary Reading instruction, with emphasis on pertinent research. Not for undergraduate nor to be used as a first course in Reading.

SCE 6616 TRENDS IN SCIENCE INSTRUCTION (3)

PR: SCE 4310. Topics in the biological and physical sciences appropriate for teaching in excellent elementary school programs. Analysis of modern curriculum materials used in presenting science as a process of inquiry.

SSE 6617 TRENDS IN SOCIAL STUDIES INSTRUCTION (3)

PR: SSE 4313. Crucial concepts drawn from the social sciences. Analysis of the problems approach. Students will select an area of independent study on an advanced level.

EMOTIONAL DISTURBANCE EDUCATION

UNDERGRADUATE COURSES

EED 4011 BEHAVIOR DISORDERS IN THE SCHOOLS (4)

PR: EDF 3214, EEX 3010, or CI. Survey of emotional and social disorders in children and youth manifested as behavior problems in the classroom; definitions, State Guidelines for educational service, service delivery models, intervention philosophies and techniques, implications for management techniques in educational programs and the history and trends of the field.

EED 4321 EDUCATIONAL PROGRAMMING FOR EMOTIONALLY HANDICAPPED STUDENTS (4)

PR: EEX 3010, EED 4011. Basic methods, skills, and techniques for educating emotionally handicapped students; behavior management, consultation skills, individualization of instruction, Individual Education Program development and management. Concurrent enrollment in EED 4941 required.

EED 4905 INDEPENDENT STUDY: EMOTIONAL DISTURBANCE (1-4)

PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

EED 4909 DIRECTED STUDY: EMOTIONAL**DISTURBANCE (1-3)**

PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

EED 4936 SENIOR SEMINAR IN EMOTIONAL**DISTURBANCE (2)**

PR: Senior standing. Synthesis of teacher candidate's course in complete college program. Required concurrently with internship.

EED 4940 INTERNSHIP: EMOTIONAL**DISTURBANCE (1-12)**

One full semester of internship in a public or a private school. Intern takes Senior Seminar in Education concurrently. In special program 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.)

EED 4941 UNDERGRADUATE SUPERVISED**PRACTICUM IN BEHAVIOR DISORDERS (2-4)**

PR: Acceptance in the undergraduate program for Emotional Disturbance. Exceptional Children and Youth and Behavior Disorders in the Schools may be taken concurrently. Supervised undergraduate practicum experiences with children and youth with behavior disorders. A one hour per week seminar is required concurrent with practicum.

EED 4945 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 year experiences when taken in Fall Semester (S/U only.)

EED 4946 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 an academic year or program closing. (S/U only.)

GRADUATE COURSES

EED 6211 EDUCATIONAL PROGRAMMING FOR EMOTIONALLY DISTURBED CHILDREN (3)

PR: EED 6201, EEX 6201. Advanced methods and materials in planning, implementing, and evaluating educational interventions with disturbed students.

EED 6943 SUPERVISED PRACTICUM IN EMOTIONAL**DISTURBANCE (2-4)**

PR: EED 6201 (may be taken concurrently), and acceptance in Master's Degree Program in Emotional Disturbance. Supervised graduate practicum experiences with emotionally disturbed children. A one hour per week seminar is required concurrent with practicum.

ENGLISH EDUCATION

UNDERGRADUATE COURSES

LAE 4335 METHODS OF TEACHING ENGLISH—**LITERATURE AND READING (3)**

CR: EDG 4200, LAE 4335, and LAE 4642 are typically taken concurrently. A survey of materials available to adolescent readers plus an overview of organizational strategies for teaching literature and reading.

LAE 4530 READING SKILLS IN ENGLISH**EDUCATION (2)**

PR: RED 4360 or CI. Methods of dealing with reading problems and application of general reading concepts in English Education. Required of all undergraduate majors in English Education.

LAE 4642 CURRENT TEACHING OF ENGLISH**LANGUAGE AND MEDIA (3)**

PR: Acceptance into College of Education. CR: EDG 4200, LAE 4335, and LAE 4642 are typically taken concurrently. Methods of teaching language and media. Includes current findings on teaching usage, dialect, grammar, and semantics, as well as approaches to media in English.

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 4909 DIRECTED STUDY: ENGLISH**EDUCATION (1-3)**

PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

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 4945 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 year experiences when taken in Fall Semester (S/U only.)

LAE 4946 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 an academic year or program closing. (S/U only.)

GRADUATE COURSES**LAE 5932 SELECTED TOPICS IN THE TEACHING OF ENGLISH**

(3)
PR: Certification in English and/or Mass Communications and approval of graduate adviser. 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 adviser.

LAE 6336 NEW PERSPECTIVES ON THE TEACHING OF LITERATURE IN SECONDARY SCHOOLS

(3)
PR: Certification in English or Mass Communications. Survey of recent investigation into adolescents' perception of and responses to literature and implications for organization and presentation of literature curricula.

LAE 6637 CURRENT TRENDS IN SECONDARY ENGLISH EDUCATION

(3)
Curricular patterns and instructional practices in secondary English.

LAE 6644 CURRENT TEACHING OF THE ENGLISH LANGUAGE

(3)
Application of recent techniques of language study to classroom teaching of English, especially in relation to current textbooks.

EXCEPTIONAL CHILD EDUCATION**UNDERGRADUATE COURSES****EEX 3010 EXCEPTIONAL CHILDREN AND YOUTH**

(4)
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 SYSTEMS FOR INTEGRATING EXCEPTIONAL STUDENTS IN THE REGULAR CLASSROOM

(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.

EEX 4221 EDUCATIONAL ASSESSMENT OF EXCEPTIONAL CHILDREN

(4)
PR: EDF 3214, EEX 3010, EMR 3011, or EED 4011 or ELD 4011 and an Exceptional Child Education major. Introduction to and familiarization with formal and informal techniques used to measure and evaluate all exceptional children. The interpretation of information so derived for utilization in educational programming and individualization of instruction. Lec-lab.

EEX 4905 INDEPENDENT STUDY: EXCEPTIONAL CHILD 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.)

EEX 4909 DIRECTED STUDY: EXCEPTIONAL CHILD EDUCATION

(1-3)
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

EEX 4936 SENIOR SEMINAR IN EXCEPTIONAL CHILD EDUCATION

(2)
PR: Senior standing. Synthesis of teacher candidate's courses in complete college program. Required concurrently with internship.

EEX 4940 INTERNSHIP: EXCEPTIONAL CHILD 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.)

EEX 4945 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.)

EEX 4946 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 an academic year or program closing. (S/U only.)

GRADUATE COURSES**EEX 6201 PSYCHOEDUCATIONAL APPRAISAL OF EXCEPTIONAL STUDENTS**

(4)
PR: Graduate standing, introductory courses in exceptional student education and educational assessment. Advanced educational assessment and staffing procedures for individual exceptional students. Laboratory sessions required.

EEX 6222 EDUCATING THE ADOLESCENT EXCEPTIONAL STUDENT

(4)
PR: Introductory course in educating exceptional students, graduate standing. Procedures in implementing educational programs for the exceptional adolescent. Includes educational programming, alternative programs, community resource coordination, career/occupational education, and advocacy.

EEX 6362 EDUCATING THE AUTISTIC STUDENT

(2)
PR: Graduate standing, introductory course in Educating Exceptional Students; Psycho-educational Assessment. Developing and managing appropriate and effective educational programs and techniques with autistic students.

EEX 6511 ADMINISTRATION OF EXCEPTIONAL CHILD PROGRAMS

(3)
PR: CI. Procedures which local, state, and national administrators may use to implement services for exceptional children.

EEX 6732 CONSULTATION WITH PROFESSIONALS AND PARENTS OF EXCEPTIONAL STUDENTS

(4)
PR: Introductory course in exceptional student education, graduate standing. Knowledge and skills in developing home, school, and community professional partnership in educating exceptional students.

EEX 6934 CURRENT TRENDS AND ISSUES IN THE EDUCATION OF EXCEPTIONAL CHILDREN

(3)
Survey of current trends and issues related to the education of exceptional children.

EEX 6936 SEMINAR IN INTEGRATING EXCEPTIONAL STUDENTS IN REGULAR EDUCATIONAL ENVIRONMENTS

(3)
Designed for non-special education graduate students. Surveys the characteristics of exceptional student populations, identification procedures, and systems for providing appropriate services for "mainstreamed" students in academic and non-academic settings.

EEX 7203 EDUCATIONAL IMPLICATIONS OF PSYCHOSOCIAL ASPECTS OF EXCEPTIONAL CHILDREN

(1-5)
PR: CI. This course will be concerned with the identification of the psycho-social needs and characteristics of exceptional children. Opportunity will also be given to the analysis of the educational implications of these needs and characteristics. May be repeated for a maximum of 5 hours.

EEX 7301 SELECTED TOPICS IN EXCEPTIONAL CHILD EDUCATION

(1-8)
PR: EEX 7341 or CI. Identification and specifications of a research problem in special education. Opportunity will be provided for the student to gather and process data, culminating in a written report and/or oral presentation to fellow student researchers. May be repeated for a maximum of 8 hours.

EX 7341 RESEARCH STUDIES AND THEIR IMPLICATIONS IN THE EDUCATION OF EXCEPTIONAL CHILDREN (3)

PR: EDF 6431, EDF 6481 or equivalent CI. This course will involve a study of current research in exceptional child education. The transition from theory into practice will be made through the examination and discussion of implications to the field of special education that can be drawn from the research.

EEX 7741 PHILOSOPHY AND PROCESS IN THE PREPARATION OF SPECIALISTS IN EXCEPTIONAL CHILD EDUCATION (3)

PR: Admission in the Program for Ed.S. and Ph.D. in Education. In-depth exploration of the philosophy and theory in special education. A theoretical basis for the preparation of specialists in the field of exceptional child education.

EEX 7841 FIELDWORK WITH EXCEPTIONAL CHILDREN (1-5)

PR: CI. Practical field experience in curriculum development, classroom teaching, supervision and/or administrative areas in special education. May be repeated for a maximum of 5 hours.

EEX 7911 SPECIALIZED STUDY IN: MENTAL RETARDATION, EMOTIONAL DISTURBANCE, SPECIFIC LEARNING DISABILITIES, AND GIFTED EDUCATION (1-8)

PR: CI. Exploration and demonstration of knowledge in an area of interest to the student in special education. The specialized study may also include areas for which the student needs to demonstrate a higher level of competency. May be repeated for a maximum of 8 hours.

EEX 7930 SEMINARS IN EXCEPTIONAL CHILD EDUCATION (1-7)

PR: Preliminary admission to the Graduate Program and CI. Seminar Topics will vary to include neurophysiological mechanisms, current trends, issues, and curriculum development in Special Education. May be repeated for a maximum of 7 hours.

FOREIGN LANGUAGE EDUCATION**UNDERGRADUATE COURSES****FLE 4164 FOUNDATIONS OF BILINGUAL EDUCATION (2)**

PR: Proficiency in English and one other language. Introduction to Bilingual/Biculture Education including study of laws, programs, teaching situations and needs of minority groups.

FLE 4333 FOREIGN LANGUAGE TEACHING IN THE SECONDARY SCHOOL (3)

PR: EDG 4200 or concurrent registration. An examination of the nature of language and language learning. Review of the history of foreign language teaching in the United States and an examination of the methods of language teaching. Study of and practice in the sequence of current foreign language instructional processes and examination of the objectives of that instruction. Library research in foreign language teaching practices in secondary schools.

FLE 4334 PRACTICUM IN FOREIGN LANGUAGE TEACHING IN THE SECONDARY SCHOOL (3)

PR: FLE 4333. Research on available literature in the field of foreign language education and the psychology of language learning. Examination of the interdependence of language, culture, and geography. Extended study and practice of the sequential steps of foreign language teaching with emphasis on the audio-lingual approach.

FLE 4905 INDEPENDENT STUDY: FOREIGN LANGUAGE 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.)

FLE 4909 DIRECTED STUDY: FOREIGN LANGUAGE EDUCATION (1-3)

PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

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.)

FLE 4945 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 year experiences when taken in Fall Semester (S/U only.)

FLE 4946 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 an academic year or program closing. (S/U only.)

GRADUATE COURSES**FLE 6665 CURRENT TRENDS IN SECONDARY FOREIGN LANGUAGE EDUCATION (3)**

PR: Consultation with instructor, plus foreign language fluency. Curricular patterns and instructional practices in the teaching of secondary foreign languages.

FOUNDATIONS**UNDERGRADUATE COURSES****EDF 3122 LEARNING AND THE DEVELOPING CHILD (4)**

PR: General Psychology and admission to College of Education. Pre-adolescent child growth and development, learning theory, and behavioral analysis applied to instruction and to the organization and management of the classroom.

EDF 3210 EDUCATIONAL PSYCHOLOGY (3)

PR: Upper level standing. The application of behavioral principles to human behavior in educational institutions, home and community settings. May not be counted for EDF 3214. (For non-education majors only.)

EDF 3214 HUMAN DEVELOPMENT AND LEARNING (3)

PR: Admission to College of Education or CC. Application of respondent and operant learning principles to classroom learning, teaching models for different instructional goals, analysis of teacher behavior, micro-teaching.

EDG 3220 BEHAVIOR MANAGEMENT IN ELEMENTARY SCHOOLS (2)

PR: EDF 3122, Learning and the Developing Child. The application of theory and basic principles of learning design to enhance classroom instruction and child management procedures. Basic concepts of applied behavior analysis including the accurate measurement of child and teacher behavior in the ongoing instructional setting.

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 3554 VALUES CLARIFICATION FOR TEACHERS (3)

PR: Junior standing recommended. Techniques for teachers in identifying and analyzing values and value orientations of individuals and groups of students in the school.

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. Should not be taken concurrently with EDF 3214.

EDF 3710 COMPARATIVE EDUCATION (3)

PR: Upper level standing. A comparison of contemporary educational systems of selected countries with that of the United States.

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.

GRADUATE COURSES

- EDF 5136 ADOLESCENCE** (4)
Study of the educational, intellectual, personality, physical, social and vocational factors in adolescence and their importance for school personnel.
- EDF 5285 PROGRAMMED INSTRUCTION AND TEACHING MACHINES** (3)
Principles for programming in the several academic subjects.
- EDF 5672 AMERICAN DEMOCRACY AND PUBLIC EDUCATION** (3)
Interdependence of the public school and democracy in the United States and the responsibility of the school in fostering and strengthening basic democratic principles.
- EDF 6120 CHILD DEVELOPMENT** (4)
PR: EDF 6211 or CI. Educational, emotional, hereditary, intellectual, social and physical factors influencing child growth and development.
- EDF 6143 MEASUREMENT OF COGNITIVE FUNCTIONING IN CHILDHOOD AND ADOLESCENCE** (4)
PR: A course in measurement and CI. Investigation of theories and measurement of cognitive functioning in childhood and adolescence.
- EDF 6211 PSYCHOLOGICAL FOUNDATIONS OF EDUCATION** (3)
Selected topics in psychology of human development and learning.
- EDF 6213 BIOLOGICAL BASES FOR LEARNING AND BEHAVIOR** (3)
PR: One course in Educational Psychology. A study of human biological development and its influence upon learning and behavior.
- EDF 6215 LEARNING PRINCIPLES APPLIED TO INSTRUCTION** (4)
PR: Graduate Standing. Study of learning principles and their application to classroom instruction.
- EDF 6217 BEHAVIOR THEORY AND CLASSROOM LEARNING** (4)
PR: EDF 6215 or CI. Theoretical and practical applications of behavior modification; introduction to experimental methods for behavior modification; operant methods in behavior and development; analysis and field work.
- EDF 6354 THEORIES OF PERSONALITY FOR SCHOOL PERSONNEL** (4)
Survey and analysis of major personality theories with emphasis on psycho-social and cognitive development throughout a person's life span. Application of relevant theoretical constructs to education and guidance.
- EDF 6517 HISTORICAL FOUNDATIONS OF AMERICAN EDUCATION** (4)
PR: Graduate standing. A study of the history of the origins and development of American education, events and movements that have shaped school policies and practices, and their relationship to contemporary developments and problems.
- EDF 6520 EDUCATION IN WESTERN CIVILIZATION** (4)
PR: Graduate standing; basic course in western history or history of philosophy. Study of educational ideas, institutions, practices and prominent theorists from the western tradition and their continuing influence on modern education.
- EDF 6544 PHILOSOPHICAL FOUNDATIONS OF AMERICAN EDUCATION** (3)
Major philosophies of education which are relevant to an understanding of contemporary educational issues.
- EDF 6606 SOCIO-ECONOMIC FOUNDATIONS OF AMERICAN EDUCATION** (4)
PR: Graduate Standing. A study of socio-economic factors as they relate to the work of professional educators and the role of public education in American society.
- EDF 6712 SEMINAR IN COMPARATIVE EDUCATION** (4)
Contemporary policies and practices in education in selected countries of the world. Methodology in Comparative Education.
- EDF 6805 WOMEN AND EDUCATION** (3)
Course is designed to enable public school personnel, teachers, counselors, administrators and other professionals, to identify those aspects of public education which perpetuate sex role stereotyping. Emphasis will be placed on how the law and formal and informal affirmative action activities can be employed to correct sexism in schools.
- EDF 6830 EDUCATION, COMMUNICATION, AND CHANGE** (4)
PR: Graduate standing or CI. Implications for education of the

developments in communication, emphasizing the role of innovations as a catalyst in the process of social change as it affects students, teachers, and traditional school arrangements.

- EDF 6860 SCHOOLS AND THE FUTURE** (4)
Examination of estimates of future demands upon schools; critique of current paradigms, techniques, and literature.

- EDF 6938 SELECTED TOPICS** (1-4)
PR: CI. Exploration and demonstration of knowledge in an area of special interest to the student and/or in an area for which the student needs to demonstrate a higher level of competence. Defined to fit the needs of each student.

- EDF 6944 FIELD EXPERIENCE** (1-4)
PR: CI. Demonstrate skills in the practice of the student's specialty. Specific objectives will be defined according to the needs of the individual student.

- EDF 7586 CLASSICS IN EDUCATIONAL RESEARCH** (4)
PR: Graduate standing; EDF 6517, EDF 6544, or EDF 6606 or CI. An examination of the context, methodology, and impact of significant research studies in education.

- EDF 7610 SCHOOL REFORM** (3)
Historical critique of causes and effects of school reform efforts.

- EDF 7649 ANALYSIS OF EDUCATIONAL ISSUES** (3)
Socio-cultural, historical, and axiological examination of selected issues in public education.

- EDF 7655 ORGANIZATION DEVELOPMENT IN EDUCATIONAL INSTITUTIONS** (4)
PR: Graduate standing, EDF 6517, EDF 6544, EDF 6606, or CI. The application of social and behavioral science theory to the organizational and developmental problems of schools and school systems.

- EDF 7682 EDUCATION IN METROPOLITAN AREAS** (4)
PR: Graduate standing; EDF 6517; EDF 6544, or EDF 6606 or CI. Study of the school as a formal, socializing institution and its relationship to the various school populations found in metropolitan areas.

- SPS 6197, 6198 PSYCHOEDUCATIONAL DIAGNOSIS AND PRESCRIPTION I, II** (5,5)
PR: Acceptance to graduate program in School Psychology. Content covers comprehensive diagnosis and prescription in school psychology, including critical reviews of relevant research literatures, the professional-client relationship, interviewing, client histories, pluralistic psychoeducational assessment, assessment of educational environments, synthesis and dissemination of diagnostic data, and referral procedures. Appropriate field experiences will be provided. This course must be taken during two consecutive semesters, and the grade will be awarded at the end of the sequence.

- SPS 6806 DEVELOPMENTAL BASES OF DIVERSE BEHAVIORS** (4)
PR: CI. This course covers the major developmental causes and effects of various diverse forms of human behavior.

- SPS 6936 GRADUATE SEMINAR IN SCHOOL PSYCHOLOGY** (1-3)
PR: CI. Seminars to explore current matters of professional concern in school psychology such as trends, problems, legal and ethical issues, empirical bases of techniques. May be repeated up to 9 credit hours (with different subject matter).

GIFTED CHILD EDUCATION

UNDERGRADUATE COURSES

- EGI 3011 INTRODUCTION TO GIFTED CHILDREN** (3)
PR: Junior class standing. Diagnosis, characteristics, and educational provision of the gifted and talented.
- EGI 3941 FIELD WORK WITH GIFTED CHILDREN** (1-4)
Organized, supervised experiences with gifted children. Specific experiences may be either a combination of observation and assistance with gifted children or individualized projects.

GRADUATE COURSES

- EGI 5051 NATURE AND NEEDS OF THE GIFTED** (4)
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 5232 EDUCATIONAL PROCEDURES FOR THE GIFTED (4)**
PR: EGI 5051. Curriculum adjustments, methods and techniques, classroom organization necessary for teaching the gifted. Emphasis will be on the examination of various theoretical models and how these can be utilized to develop appropriate programs for gifted.
- EGI 5942 SUPERVISED PRACTICUM FOR THE GIFTED (1-9)**
Planned supervised participation in activities related to specific areas of the gifted.
- EGI 6416 GUIDANCE AND COUNSELING OF GIFTED CHILDREN AND THEIR PARENTS (4)**
PR: EGI 5051 or CI. Investigation of the guidance needs of gifted children and their parents. Methods of assistance and support for the development of the unique potentials of gifted students.
- EGI 6936 SEMINAR IN EDUCATION OF THE GIFTED: RECENT RESEARCH (3)**
A critical survey of the literature related to the psychological and educational problems of gifted children.

HEALTH EDUCATION

UNDERGRADUATE COURSES

- HES 2000 CONTEMPORARY HEALTH SCIENCE (3)**
A comprehensive approach to health concerns and problems in contemporary society, including methods of assessing individual health needs.
- HES 3122 HUMAN STRUCTURE AND FUNCTION (4)**
PR: Fundamentals of Biology/lab, admission to the program or CI. Major concepts of the structure and function of the human body systems and methods by which these concepts may be taught. Lab included.
- HES 3123 HUMAN STRUCTURE AND FUNCTION II (2)**
PR: HES 3122. A continuation of HES 3122. Course includes the following areas: cardiovascular, digestive and urinary systems balance and stress; metabolism; human inheritance.
- HES 3140 CHILD HEALTH (4)**
PR: Admission to the Health Education Program or CI. Development of curricula, health services, health assessment procedures and health education programs for children.
- HES 3141 PUBESCENT AND ADOLESCENT HEALTH (4)**
PR: Admission to the program and HES 3140 or CI. Health education content and programs relating to pubescents and adolescents.
- HES 3244 HEALTH COUNSELING (3)**
PR: Admission to the Health Education Program or CI. A study and application of theory and methods of health counseling.
- HES 3300 PROCESSES AND PROGRAMS IN HEALTH EDUCATION (2)**
PR: Admission to the Health Education Program or CI. Survey of programs in Health Education in the school and community. Processes in programs and curriculum development will also be emphasized.
- HES 3510 CONSUMER HEALTH (3)**
PR: Admission to the Health Education Program or CI. An investigation of advertising and consumer practices in relation to health care. (S/U only.)
- HES 4143 ADULT HEALTH (4)**
PR: Admission to the program and HES 3141 or CI. Health problems, services and education of the adult population.
- HES 4276 HEALTH CARE DELIVERY SYSTEMS (3)**
PR: Admission to the Health Education Program or CI. An investigative study and evaluation of health care delivery systems in the U.S. and other countries.
- HES 4700 ORGANIZATION AND ADMINISTRATION OF COMMUNITY HEALTH (3)**
PR: Admission to the Program and HES 3143 or CI. Organization and administration of community health programs. A written program plan is required.
- HES 4722 CURRENT PROBLEMS IN HEALTH (3)**
PR: Admission to the Health Education Program or CI. An investigation of current health problems, programs, and research methods.
- HES 4750 RESEARCH IN HEALTH EDUCATION (3)**
PR: Admission to the program and concurrent enrollment in HES 4943. Students are expected to complete a research project for a health agency.

- HES 4905 INDEPENDENT STUDY: HEALTH EDUCATION (1-4)**
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary.
- HES 4909 DIRECTED STUDY: HEALTH EDUCATION (1-3)**
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.
- HES 4940L INTERNSHIP IN HEALTH EDUCATION (1-12)**
PR: Admission to the Health Education Program. Supervised internship in the schools with scheduled seminars. (S/U only.)
- HES 4942 FIELD EXPERIENCE IN HEALTH AGENCIES (2)**
PR: Admission to the program or CI. A field based introduction to the role and responsibilities of a health educator in a community health agency. (S/U only.)
- HES 4943 FIELD EXPERIENCE IN HEALTH AGENCIES (6)**
PR: Acceptance in the Program and HES 4143, HES 4700 (for Non-Cert.) or CI. To be taken concurrently with HES 4750. Supervised field experience in selected health agency programs. (S/U only.)
- HES 4945 INTERNSHIP (1-4)**
Part-time internship in a accredited public or private school. To be taken concurrently with departmental requirements and will include beginning of year experiences when taken in Fall Semester. (S/U only.)
- HES 4946 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 an academic year or program closing. (S/U only.)

GRADUATE COURSES

- HES 5328C HEALTH PROBLEMS OF SCHOOL AGE POPULATION (3)**
A study of health problems and needs of school age students including a health status screening laboratory.

HIGHER EDUCATION

GRADUATE COURSES

- EDH 6061 THE JUNIOR COLLEGE IN AMERICAN HIGHER EDUCATION (4)**
History of higher education, philosophical and cultural bases for definition of its role, and contemporary issues, such as control, financing, and curricular patterns. The place and problems of the community junior college will be central concerns of this course.
- EDH 6938 SEMINAR IN COLLEGE TEACHING (3)**
Implications of learning theory and student characteristics for teaching at the college level. Types of teaching procedures, innovation, evaluation, student freedom and responsibility for learning.

HUMANITIES EDUCATION

UNDERGRADUATE COURSES

- HUM 4870 CURRENT TRENDS IN THE TEACHING OF HUMANITIES (3)**
Curricular patterns, materials, and instructional practices in the teaching of humanities.
- HUM 4909 DIRECTED STUDY: HUMANITIES EDUCATION (1-3)**
PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.
- HUM 4936 SENIOR SEMINAR IN HUMANITIES EDUCATION (2)**
PR: Senior standing. Synthesis of teacher candidate's courses in complete college program. Required concurrently with internship.
- HUM 4940 INTERNSHIP HUMANITIES 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.)

- HUM 4945 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 year experiences when taken in Fall Semester. S/U only.
- HUM 4946 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 an academic year or program closing. S/U only.

INDUSTRIAL/TECHNICAL EDUCATION

UNDERGRADUATE COURSES

- EIV 4314 METHODS OF TEACHING: DIVERSIFIED COOPERATIVE TRAINING** (3)
Methods, techniques, and materials for instruction. This course specializes in Diversified Cooperative Training.
- EVT 3063 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 4061C 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 ITE 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 teachers 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 4176 CURRICULUM CONSTRUCTION: INDUSTRIAL-TECHNICAL EDUCATION** (4)
PR: EVT 4364 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 4254 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.
- 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 4311 TEACHING METHODS: HEALTH OCCUPATIONS** (4)
PR: EVT 4364 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 4364 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 4365 SPECIAL TEACHING METHODS: INDUSTRIAL-TECHNICAL EDUCATION** (4)
PR: EVT 4364 or CI. Instructional techniques in industrial-technical education. Vocational Industrial Clubs of America activities may be included.
- 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 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 to 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.

GRADUATE COURSES

- EIV 5315 PROGRAM MANAGEMENT: DIVERSIFIED COOPERATIVE TRAINING** (3)
Organization, coordination, and budgeting of adult, cooperative, and special programs.
- EVT 5190 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 involvement and public support.
- EVT 5280 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 5366 PREPARATION AND DEVELOPMENT FOR TEACHING** (4)
The development of selected instructional materials, use of new educational media, performance evaluation instruments, and counseling techniques.
- EVT 6191 PLACEMENT OF SEVERELY HANDICAPPED PEOPLE** (3)
A study of the purpose, methods, process and procedures used to plan, implement and operate a Vocational Rehabilitation Cooperative School Counseling Program.
- EVT 6300 INDIVIDUALIZED INSTRUCTION** (3)
Attention is given to individualized instruction to include the special needs students, the slow learner, and the more capable student.
- EVT 6385 ADMINISTRATION OF LOCAL PROGRAMS: VOCATIONAL** (4)
Organization, personnel selection and assignment, and establishment of policies and procedures for local vocational programs within federal, state and local requirements.

EVT 6386 SUPERVISION OF LOCAL PROGRAMS:**VOCATIONAL EDUCATION**

(3)

PR: CI. A study of the factors involved in the supervision of instruction including plans for teacher education, improvement of instruction, coordination of activities, and personnel relations.

EVT 6563 CURRENT TRENDS

(3)

Historical information, issues, current trends, new dimensions and problems in the area of specialization.

EVT 6769 METHODS, PROCEDURES, AND PROCESSES OF VOCATIONAL EVALUATION

(3)

A study of the purposes, methods, processes and procedures used to plan, implement and operate a vocational evaluation program.

EVT 6926 STAFF DEVELOPMENT

(1-5)

Implementation of new procedures addressed to discreet developmental needs of the staff as identified by an educational agency.

EVT 6930 SEMINAR

(4)

PR: EDF 6431 and EDF 6481. Applied research techniques and investigation of important current issues of thesis in the area of specialization.

EVT 6948 PRACTICUM: INDUSTRIAL-TECHNICAL EDUCATION

(3-6)

A problem-centered field study in the local community, school, government, office, social agency, business or industry.

EVT 7066 FOUNDATIONS AND PHILOSOPHY OF VOCATIONAL, TECHNICAL, AND ADULT EDUCATION

(3)

PR: Preliminary admission to the advanced graduate program and/or CI. This course focuses on the historical development and contemporary philosophies, cultural bases and practices of Vocational, Technical and Adult Education.

EVT 7155 CAREER DEVELOPMENT IN VOCATIONAL, TECHNICAL, AND ADULT EDUCATION

(3)

PR: Preliminary admission to the Graduate Program and CI. Course involves the development of a career model designed to facilitate career development of students and articulate vocational education and career guidance.

EVT 7164 VOCATIONAL AND ADULT EDUCATION PROGRAM PLANNING AND IMPLEMENTATION

(3)

PR: EVT 4176, Curriculum Construction, or equivalent. Designed to equip students with the knowledge and skills necessary to participate in the initial determination, planning, organization, and the implementation of new or expanded vocational and technical education programs.

EVT 7168 INSTRUCTIONAL DEVELOPMENT FOR VOCATIONAL, TECHNICAL, AND ADULT EDUCATION

(4)

PR: EDG 5206 or CI. The course is designed to develop competencies in a systematic approach to vocational, technical, and adult education curriculum improvement and instructional development. Students will apply an instructional systems approach to the development of practical solutions to critical teaching and learning problems.

EVT 7760 RESEARCH SEMINAR IN VOCATIONAL, TECHNICAL, AND ADULT EDUCATION

(3)

PR: Completion of program requirements in measurement and research or CI. Examination and critical evaluation of research in a particular specialization area of Vocational, Technical, or Adult Education. Preparation of an individual research prospectus. Available to majors only. Repeatable up to six credit hours.

LIBRARY, MEDIA, AND INFORMATION STUDIES

UNDERGRADUATE COURSES

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 4505 AUDIOVISUAL EQUIPMENT AND MATERIALS

(2)

PR: Upper level standing or CI. Basic skills in selecting, presenting, and evaluating audiovisual programming.

GRADUATE COURSES

COP 6242 COMPUTER PROGRAMMING FOR LIBRARIES AND INFORMATION CENTERS

(3)

Programming of library-oriented computer applications using the PL/C programming language. Emphasis on programming of library technical services operations and information retrieval and dissemination systems.

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 5321 PREPARING SINGLE CONCEPT FILMS

(3)

PR: CI. Techniques and procedures in the preparation of educational films. Ascertaining concepts, script writing, graphics, lighting, filming, editing.

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 and 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

(4)

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.

LIS 6110 HISTORY OF LIBRARIES

(3)

Development of libraries as found from the earliest records to the great libraries of modern times and the library as a social institution.

LIS 6111 HISTORY OF CHILDREN'S LITERATURE

(3)

Historical bibliographical survey of imaginative and informational literature for children.

LIS 6119 CONTEMPORARY PUBLISHING AND PRINTING

(3)

PR: LIS 6520. A survey of book publishing as it is carried on today, primarily in the United States. Emphasis on structure of the industry, economic conditions, technological developments, social functions of book publishing and distribution. Complementary relations between libraries and publishing.

LIS 6202 INTRODUCTION TO BIBLIOTHERAPY

(4)

PR: CI. History, theory and practice of bibliotherapy. Conflicting definitions and their resolutions. For continuing education of librarians, advanced majors and practitioners of related disciplines.

LIS 6203 READING GUIDANCE PROGRAMS IN LIBRARIES AND CLASSROOMS

(3)

Working with factors and forces influencing reading habits of children and youth; programs for teaching investigative and library skills; materials and methods for guidance of reading, listening and viewing.

LIS 6206 ADULT SERVICES IN LIBRARIES

(4)

PR: LIS 6520 or CI. Traditional and innovative services for adults in public and other types of libraries, including those for special groups such as the aging, handicapped, and institutionalized.

LIS 6225 STORYTELLING

(3)

PR: CI or LIS 6586. Building storytelling programs for school and public libraries or other educational institutions. Analysis of historical aspects, material suitable for use and audience reaction.

LIS 6260 INFORMATION SCIENCE IN LIBRARIANSHIP

(4)

Historical overview of the emergence of information science as a discipline. The fundamental concepts of information retrieval systems and subsystems, related information technologies, including indexing and abstracting, and their applications to the field of librarianship.

LIS 6262 LIBRARY SYSTEMS PLANNING

(3)

Application of systems planning and data processing technology to library files. Emphasis on analysis of selected library subsystems.

LIS 6271 RESEARCH METHODS IN LIBRARIANSHIP

(2)

Overview of present status of research in library and information science; introduction to research methods and their application to librarianship; designed to prepare students to evaluate and plan

research studies relating to library and information science.

LIS 6273 ADVANCED RESEARCH METHODS IN LIBRARIANSHIP (2)

PR: LIS 6271. Development and implementation of research proposal relating to library and information science including the collection and analysis of data and preparation of the research report.

LIS 6312 PREPARING INSTRUCTIONAL MEDIA (3)

Fundamentals of preparing and using audiovisuals as they relate to the communication process.

LIS 6402 ADVANCED LIBRARY ADMINISTRATION (4)

PR: CI. Applications of staff management principles to library situations. Includes staff roles in current and future operations, application of library performance measures to determine staff effectiveness; preparation of staff manuals; problems of special classes of library workers such as volunteers and students.

LIS 6409 INTRODUCTION TO LIBRARY ADMINISTRATION (4)

PR: CI. Behavioral approach to libraries as organizations; administrative principles, theories, and problems of all types of libraries; methods of administration; use of case studies; role plays; and in-basket exercises.

LIS 6428 AUDIOVISUAL ADMINISTRATION (3)

PR: LIS 6312 and LIS 6508 or CI. Audiovisual administrative practices in school systems and junior colleges.

LIS 6432 SEMINAR IN ACADEMIC LIBRARIES (3)

PR: LIS 6409. Identification of problems and critical examination of methods in administrative areas of technical, student, and teaching staff services, fiscal and legal responsibilities, staff organization and supervision in academic libraries.

LIS 6445 SEMINAR IN PUBLIC AND INSTITUTIONAL LIBRARIES (4)

PR: LIS 6409 or CI. Critical examination of public and institutional library administration, services, resources, and facilities at the municipal, county, and regional levels. Role of state and federal governments in library development.

LIS 6455 THE ORGANIZATION AND ADMINISTRATION OF THE SCHOOL MEDIA CENTER (4)

PR: CI. Media quarters, facilities, collections, equipment, and services. Principles of organization and administration of media programs in elementary and secondary schools. Field trips to area media centers required.

LIS 6463 LIBRARY NETWORKS AND SYSTEMS (3)

PR: LIS 6409 or LIS 6428 or LIS 6455. Development of library networks at the local, state, regional, and national levels with consideration of organization, administration, services, funding and legislation.

LIS 6472 SEMINAR IN SPECIAL LIBRARIES (4)

PR: LIS 6409. Identification of problems and critical examination of methods in administrative areas of technical and special service clientele; fiscal and legal responsibilities, staff organization and services in special libraries.

LIS 6473 LAW LIBRARIANSHIP (3)

PR: LIS 6608, LIS 6735, or CI. Course designed to give students an understanding of all aspects of law librarianship, including selection, acquisition, organization, and use of information resources of the law researcher. Emphasis on books, microforms, and computerized legal systems used for legal research, and on work products of lawyers.

LIS 6475 HEALTH SCIENCES LIBRARIANSHIP (3)

PR: LIS 6260, LIS 6409, LIS 6608, LIS 6735, or CI. All aspects of health science librarianship, including administration, acquisition, organization, and use of information resources for persons in the health fields such as physicians, medical students, nursing students, allied health personnel and students, and researchers. Field trip may be required.

LIS 6502 SERIAL PUBLICATIONS IN LIBRARIES (2)

PR: LIS 6735 or CI. The organization and management of serial publications in libraries, including principles and practices in cataloging serials.

LIS 6506 AUDIOVISUAL UTILIZATION (3)

Examination (and utilization) of non-print media. Characteristics of media equipment and paradigms of use.

LIS 6508 THE CURRICULUM AND INSTRUCTIONAL TECHNOLOGY (3)

Effective utilization of instructional materials as they relate to specific areas of the curriculum in elementary and high school programs.

LIS 6520 BUILDING LIBRARY COLLECTIONS (4)

PR: LIS 6608 or CI. Developmental approach to building library collections of both print and non-print materials. Emphasis upon evalua-

tion, selection and acquisition of library materials as they uphold the objectives of the institutions for which they are selected and acquired.

LIS 6572 BOOKS AND RELATED MATERIALS FOR YOUNG ADULTS (3)

Young adult materials for use in secondary school libraries, young adult sections of public libraries and other institutions serving youth. Equal emphasis upon 1) selection principles and bibliographical sources as well as upon 2) utilization in terms of service to the young adult.

LIS 6586 MATERIALS FOR CHILDREN (3)

Examination of materials for all institutions in which children are served: school media centers, public libraries, kindergartens, etc. Stress on selection aids, reviewing techniques, utilization.

LIS 6605 ADVANCED INFORMATION SOURCES AND SERVICES (3)

PR: LIS 6608. Reference materials in the humanities, social sciences, science and technology.

LIS 6608 BASIC INFORMATION SOURCES AND SERVICES (3)

An in-depth examination of the basic sources of information in the general library; discussion of bibliographical control of all communication media, with emphasis on those tools which are of most value to general reference services; and the provision of various types of reference services.

LIS 6609 AUTOMATED INFORMATION SOURCES AND SERVICES (3)

PR: LIS 6608, LIS 6260, or CI. Principles of on-line searching and characteristics of machine-readable bibliographic data bases. Includes two credit hours of laboratory providing hands-on researching experience. (S/U Only.)

LIS 6610 INFORMATION SOURCES AND SERVICES IN THE HUMANITIES (3)

PR: LIS 6608 or CI. Detailed consideration of the bibliographical and reference materials in the humanities with training and practice in their use for solving problems arising in the reference service.

LIS 6620 INFORMATION SOURCES AND SERVICES IN THE SOCIAL SCIENCES (3)

PR: LIS 6608. Detailed consideration of the bibliographical and reference materials in the social sciences with training and practice in their use for solving problems arising in reference service.

LIS 6630 INFORMATION SOURCES AND SERVICES IN SCIENCE AND TECHNOLOGY (3)

PR: LIS 6608 or CI. Study of representative reference sources in pure and applied sciences with equal attention given to typical problems encountered in scientific and technological reference service.

LIS 6633 NON-TRADITIONAL SCIENTIFIC INFORMATION MANAGEMENT (3)

PR: LIS 6630 or CI. Explores alternatives to traditional systems of handling biological, pharmaceutical, medical, toxicological, environmental, as well as chemical information. Selected systems not based on words are studied.

LIS 6651 BOOKS AND RELATED MATERIALS OF LATIN AMERICAN COUNTRIES SUITABLE FOR CHILDREN AND YOUNG PEOPLE (3)

Bibliographic sources, aids and tools for the selection and utilization of Latin American books and related materials suitable for children and young people. Examination of representative materials in terms of the basic principles and criteria of selection for libraries.

LIS 6661 GOVERNMENT DOCUMENTS (3)

The nature of state, federal, United Nations, and international documents, their reference and research value; the techniques of acquisition, organization and reference use.

LIS 6724 CLASSIFICATION AND CATALOGING OF NON-BOOK MATERIALS (2)

PR: LIS 6735 or CI. Principles and practices in cataloging and organizing non-book materials.

LIS 6735 TECHNICAL SERVICES IN LIBRARIES (3)

Principles of general library practice in technical services operations. Emphasis on descriptive cataloging; and use of unabridged Dewey Decimal Classification.

LIS 6745 ADVANCED CATALOGING (4)

PR: LIS 6735. Introduction to and practice in using selected schedules of the Library of Congress Classification System and the Library of Congress Subject Heading List; changing policies and procedures in cataloging and an introduction to and use of the MARC format for inputting cataloging data into machine readable files.

- LIS 6906 INDEPENDENT STUDY** (1-4)
PR: 20 hours earned in program and consent of advisor. (S/U only.)
- LIS 6946 SUPERVISED FIELD WORK** (4)
PR: CI. Supervised experience in an approved cooperating library. Includes practice work, seminar sessions and individual conferences, a progress report, and a final report on the field experience.
- LIS 7406 ADVANCED FOUNDATIONS OF LIBRARIANSHIP** (4)
PR: LIS 5404 or CI. Emphasis in this course is upon American libraries and American library education as influenced by legislation, education, censorship, technology, the copyright provisions and other influences.
- LIS 7938 ADVANCED SEMINAR IN LIBRARIANSHIP** (1-4)
PR: CI. Seminar in advanced areas of current importance in library, media, and information science. Primarily for students enrolled in specialist and doctoral programs.

MATHEMATICS EDUCATION

UNDERGRADUATE COURSES

- CAP 4100 COMPUTING DEVICES IN THE EDUCATIONAL PROCESS** (3)
Characteristics of computing devices, flow charting, programming, classroom management techniques, teaching materials, and applications will be discussed.
- MAE 4320 TEACHING JUNIOR HIGH SCHOOL MATHEMATICS** (3)
PR: 18 semester hours of mathematics or CC. Techniques and materials of instruction in junior high school mathematics.
- MAE 4330 TEACHING SENIOR HIGH SCHOOL MATHEMATICS** (3)
PR: EDG 4200 or CR in EDG 4200 and admission to teacher education program in mathematics. Techniques and materials of instruction in mathematics.
- MAE 4885 READING THE LANGUAGE OF MATHEMATICS** (3)
PR: Reading in Secondary Content Areas, Teaching Senior High School Mathematics, or CR in Teaching Senior High School Mathematics. Methods of teaching students to read the language of mathematics.
- MAE 4905 INDEPENDENT STUDY: MATHEMATICS 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.)
- 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.)
- MAE 4945 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 year experiences when taken in Fall Semester. (S/U only.)
- MAE 4946 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 an academic year or program closing. (S/U only.)

GRADUATE COURSES

- MAE 5636C THE UTILIZATION OF LABORATORY TECHNIQUES IN THE TEACHING OF MATHEMATICS** (3)
PR: 12 semester hours of mathematics or CC. In this course students

will make an examination of a variety of sample laboratory lessons along with methods for creating and evaluating such lessons.

- MAE 6136 CURRENT TRENDS IN SECONDARY MATHEMATICS EDUCATION** (3)
PR: MAE 4330 or CC. Curricular patterns and instructional practices in secondary mathematics.
- MAE 6337 TOPICS IN TEACHING ALGEBRA** (1-4)
PR: Undergraduate degree in mathematics or certification in secondary school mathematics. Topics in algebra, philosophy, new trends, and methods of teaching secondary school algebra. May be repeated for a maximum of four hours.
- MAE 6338 TOPICS IN TEACHING GEOMETRY** (1-4)
PR: Undergraduate degree in mathematics or certification in secondary school mathematics. Topics in geometry, philosophy, new trends, and methods of teaching secondary school geometry. May be repeated for a maximum of four hours.
- MAE 6536 TEACHING OF PRE-SECONDARY SCHOOL MATHEMATICS** (3)
PR: 12 semester hours of mathematics or CC. Development of strategies and materials for teaching mathematical concepts and skills appropriate to pre-secondary school years. May be repeated for credit up to 9 hours.

MEASUREMENT-RESEARCH

UNDERGRADUATE COURSES

- 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.

GRADUATE COURSES

- EDF 6431 FOUNDATIONS OF MEASUREMENT** (3)
Fundamental descriptive statistics, basic measurement concepts, role of measurement in education, construction of teacher-made tests and interpretation of standardized tests.
- EDF 6481 FOUNDATIONS OF EDUCATIONAL RESEARCH** (3)
PR: EDF 6431. Major types of educational research, with emphasis upon understanding the experimental method.
- EDF 7407 STATISTICAL ANALYSIS FOR EDUCATIONAL RESEARCH I** (4)
Theory and application of statistical procedures to problems in education; (1) descriptive statistics, (2) probability-sampling distributions, (3) inferential statistics-interval estimation, tests of significance (Z, T, F). Coordinated use of computer may be included.
- EDF 7408 STATISTICAL ANALYSIS FOR EDUCATIONAL RESEARCH II** (4)
PR: EDF 7407 or CI. Theory and application of statistical procedures to problems in education; (1) ANOVA-factorial; ANCOVA; (2) non-parametric statistics; (3) multiple correlation and regression - a specific technique and a general approach to data analysis. Coordinated use of computer may be included.
- EDF 7409 STATISTICAL ANALYSIS FOR EDUCATIONAL RESEARCH III** (3)
PR: EDF 7408 or CI. Theory of and application of experimental design and linear modeling to problems in educational research. Multiple correlation and regression—a specific technique and a general approach to statistical inference (analysis of variance and covariance). Elements of matrix algebra. Coordinated use of computer as a data processing resource.
- EDF 7410 DESIGN OF SYSTEMATIC STUDIES IN EDUCATION** (4)
PR: EDF 7408 or equivalent or CI. Theory and application of major design models to systematic inquiry in education, from experimental to naturalistic models. Nature and role of sampling in systematic studies.
- EDF 7437 ADVANCED EDUCATIONAL MEASUREMENT I** (4)
PR: EDF 6431 or equivalent; EDF 7407 or equivalent. Logical, empirical, and statistical models of measurement processes. Examination of issues relative to scaling with a focus on reliability of measurement. Critique of available instruments for measurement in psychology and education.

- EDF 7438 ADVANCED MEASUREMENT II** (3)
PR: EDF 7437 or equivalent. A second advanced graduate course in measurement. Scaling techniques in measurement. Item analysis theories and practices. Validation theory. Construction and validation of instruments for measurement in education. Criterion-referenced and norm-referenced interpretation of measurements.
- EDF 7484 STATISTICAL ANALYSIS FOR EDUCATIONAL RESEARCH IV** (3)
PR: EDF 7409 or CI. Fundamentals and applications of the following multivariate statistical procedures to problems in educational research: commonality analysis, path analysis, factor analysis, canonical variate analysis, discriminant analysis. Use of packaged computer programs with various multivariate analysis procedures.
- EDF 7485 EVALUATION IN EDUCATION: THEORY AND PRACTICE** (3)
PR: EDF 7493 or CI. Comparative analysis of contemporary evaluation approaches; theory and scientific basis of evaluation; social and political impact of evaluation on educational decision making; and the design, implementation and reporting of evaluation studies.
- EDF 7488 APPLICATION OF COMPUTER LANGUAGE AND PROCEDURES IN EDUCATION** (1)
Development of understanding and technical skill in relation to computer and data processing approaches to solution of educational research, and administrative problems. Training in use of Fortran as a programming language.
- EDF 7493 SYSTEMS APPROACHES FOR PROGRAM PLANNING, EVALUATION AND DEVELOPMENT** (4)
Systems theory applied to problems in program planning, evaluation and development. Analysis of evaluation models. Application in Networking, PERT and Modeling procedures to selected problems in education.
- EDF 7494 SYSTEMS APPROACHES IN EDUCATION** (3)
An introduction to systems theory and techniques emphasizing application to selected problems and situations in education. Development of competence in applying PERT, GANTT, Mission-Function-Task, and Modeling procedures.
- EDF 7940 PRACTICUM IN EDUCATIONAL PLANNING, EVALUATION, AND DEVELOPMENT** (1-8)
PR: EDF 7407, EDF 7408, EDF 7409, EDF 7493. Supervised practicum in which the student assumes major responsibility for a significant planning, evaluation, or development activity. May be repeated up to 12 credit hours. (S/U only.)

MENTAL RETARDATION EDUCATION

UNDERGRADUATE COURSES

- EMR 3011 INTRODUCTION TO MENTAL RETARDATION** (4)
PR: EEX 3010. Introduction to the classification, diagnosis, characteristics, and treatment of the mentally retarded.
- EMR 3800 UNDERGRADUATE SUPERVISED PRACTICUM IN MENTAL RETARDATION** (2-4)
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 8 hours credit.
- EMR 4310 PROCEDURES AND MATERIALS FOR ELEMENTARY AGE EDUCABLE MENTALLY RETARDED CHILDREN** (4)
PR: EMR 3011, RED 4310, a current major in an Exceptional Child program, EMR 3800 either previously or concurrently. Special class organization, curriculum development, procedures and materials for elementary aged educable mentally retarded children.
- EMR 4313 PROCEDURES AND MATERIALS FOR SECONDARY AGE EDUCABLE MENTALLY RETARDED YOUTH AND ADULTS** (4)
PR: EMR 3011 and Exceptional Child Education major. Special class organization, curriculum development, procedures and materials for secondary age educable mentally retarded youth and adults.
- EMR 4321 EDUCATIONAL PROCEDURES FOR THE TRAINABLE MENTALLY RETARDED** (2)
PR: EMR 3011 and an Exceptional Child Education major. Special class organization, curriculum development, methods and techniques of teaching the trainable retarded.

- EMR 4905 INDEPENDENT STUDY: MENTAL RETARDATION** (1-4)
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 4936 SENIOR SEMINAR IN MENTAL RETARDATION** (2)
PR: Senior standing. Synthesis of teacher candidate's courses in complete college program. Required concurrently with internship.
- EMR 4940 INTERNSHIP: MENTAL RETARDATION** (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.)
- EMR 4945 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 year experiences when taken in Fall Semester. (S/U only.)
- EMR 4946 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 an academic year or program closing. (S/U only.)

GRADUATE COURSES

- EMR 5012 THE SLOW LEARNER IN THE SCHOOL** (3)
Characteristics, needs and educational planning for the slow learning child. Appropriate for special class teachers and regular class teachers.
- EMR 5803 GRADUATE SUPERVISED PRACTICUM IN MENTAL RETARDATION** (1-9)
Supervised graduate practicum encompassing teaching and supervising experiences in public school classes for the mentally retarded.
- EMR 6052 SOCIAL, BIOLOGICAL, AND EDUCATIONAL ASPECTS OF MENTAL RETARDATION** (4)
PR: Graduate standing, introductory course in exceptional student education. In-depth exploration of the complex social and biological aspects of mental retardation with particular reference to effects on education.
- EMR 6303 ADVANCED EDUCATIONAL PROCEDURES FOR THE MENTALLY RETARDED** (4)
PR: EMR 4310 or EMR 4321, EEX 6201. In depth study of specific curriculum and methodological problems in teaching the retarded.

MUSIC EDUCATION

UNDERGRADUATE COURSES

- MUE 2420 THEORETICAL BASES OF MUSIC EDUCATION** (1)
The course is designed to investigate music education practices in the schools. It provides the student with experiences and information early in his academic career which will enable him to determine his commitment to professional music education.
- MUE 3411 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 3413 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 3414 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 4050 FOUNDATIONS OF INSTRUMENTAL**MUSIC****(3)**

PR: CI, Junior standing. Introduction to the foundations of instrumental music instruction in the elementary and middle school.

MUE 4130 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 4314 MUSIC IN THE ELEMENTARY SCHOOL**(3)**

A study of principles, techniques, materials, and activities as they relate to a comprehensive music curriculum in Grades K-6.

MUE 4331 CHORAL METHODS IN THE SECONDARY SCHOOL**(3)**

PR: CI, Junior standing. Development and implementation of methods and techniques for teaching secondary school choral music.

MUE 4332 INSTRUMENTAL MUSIC IN THE**SECONDARY SCHOOL****(3)**

PR: CI, Junior standing. Development and implementation of methods and techniques for teaching secondary school instrumental music.

MUE 4480 BAND PAGEANTRY**(1)**

This course is designed as an elective offering for instrumental music majors who expect to direct band activities in a secondary school. It will provide the student with skills in creating half-time shows, and integral part of the band teacher's responsibilities.

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 EDUCATION**(2)**

PR: Senior standing. 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 to 12 semester hours. (S/U only.)

MUE 4945 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 4946 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 an academic year or program closing. (S/U only.)

GRADUATE COURSES**MUE 6080 FOUNDATIONS AND PRINCIPLES OF MUSIC EDUCATION****(3)**

PR: Acceptance into Music Education Graduate Program or CI. Investigation of historical, philosophical and psychological foundations of music education.

MUE 6116 ADVANCED ELEMENTARY SCHOOL MUSIC**(3)**

PR: Acceptance in the Music Education Graduate Program or CI. Study and appraisal of children's musical growth, curriculum plans, materials and teaching techniques essential for the sequential development of musical learnings.

MUE 6189 MUSIC SUPERVISION AND ADMINISTRATION**(3)**

The music curriculum in relation to the total school program; staff and budgetary needs.

MUE 6415 ADVANCED SECONDARY VOCAL MUSIC**(3)**

PR: Acceptance in the Music Education Graduate Program or CI. Course provides for graduate students in music education the opportunity to examine current research related to the teaching of secondary school vocal music, evaluate curricula, music materials, and teaching methods that will enable them to develop a vocal music program

which emphasizes musical sensitivity.

MUE 6418 ADVANCED MATERIALS FOR INSTRUMENTAL MUSIC EDUCATION**(3)**

PR: Acceptance in the Music Education Graduate Program and CI. Course designed to examine published and unpublished materials, develop curricula and resources, including media hardware, appropriate for use in school instrumental music programs.

MUE 6495 INSTRUMENTAL CONDUCTING IN THE SECONDARY SCHOOLS**(3)**

PR: Acceptance in the Music Education Graduate program or CI. Course designed to develop skills of analysis and interpretation needed by school instrumental music teachers. Class activities include laboratory settings and performance practices.

MUE 6496 CHORAL CONDUCTING IN THE SECONDARY SCHOOLS**(3)**

PR: Acceptance in the Music Education Graduate program or CI. Course designed to develop essential conducting competencies required of a choral music director in the secondary schools.

MUE 7630 AESTHETICS IN MUSIC EDUCATION**(3)**

PR: Acceptance in the music education graduate program or CI. A course designed to investigate the nature of philosophical and psychological aesthetics as they relate to aesthetic and educational theories that influence programs in music education.

MUE 7641 FOUNDATIONS OF MUSICAL LEARNING AND TEACHING**(3)**

PR: Acceptance in the Music Education graduate program, a graduate level educational psychology course or its equivalent, or CI. A critical examination of current findings regarding the phenomena of the psychology of musical behaviors, major problems and plausible solutions. Investigation of musical acoustics, the measurement of musical abilities, and a comparative study of theories of learning related to musical learning.

PHYSICAL EDUCATION FOR TEACHERS**UNDERGRADUATE COURSES****HES 2400 FIRST AID****(2)**

Meets the American Red Cross certification requirements in standard and advanced first aid.

LEI 4007 COMMUNITY RECREATION**(3)**

Introduction to recreational outlets in the community and the administrative problems confronting recreational playground leaders and directors of community recreational programs. Offered on Independent Study basis only.

†PEQ 3101C AQUATICS**(2)**

PR: Red Cross beginning swimmer's skills, or equivalent. Includes analysis and methodology of teaching swimming skills, conducting class activities, and the organization and conducting of aquatic programs in the school and the community.

†PET 3001C INDIVIDUAL ASSESSMENT**(2)**

A personal evaluation of various factors related to the effective teaching of physical education. An individual profile that can be used for counseling purposes will be the final product of this course.

†PET 3372 HUMAN KINETICS I**(6)**

The structure and function of the skeletal, muscular, and nervous systems of the human body related to developmental movement and to impairments. The mechanical laws of physics as they contribute to those movements within the body which result in efficient running, jumping, throwing, catching, striking and kicking.

†PET 3381 HUMAN KINETICS II**(6)**

PR: PET 3372. An application of anatomy and physiology related to physical activity. Emphasis is placed on the acute and chronic adaptation of the body activity as reflected at cellular level. The special needs of physical educators in working with different ages, sexes, and atypical persons are considered.

†PET 3434C MOVEMENT EDUCATION THEORY AND APPLICATION I**(3)**

A two course sequence emphasizing movement experiences appropriate for elementary school children. The philosophy, objectives, and analytical framework of movement education are studied relative to basic movement concepts.

†PET 3435C MOVEMENT EDUCATION THEORY AND APPLICATION II

(3)

PR: PET 3434C. A two course sequence emphasizing movement experiences appropriate for elementary school children. The philosophy, objectives, and analytical framework of movement education are studied relative to basic movement concepts.

†PET 3943C SEMINAR AND INTERNSHIP I

(5)

Elementary school physical education teaching experiences are provided for students with added focus on the upper elementary grades. Seminars emphasize planning and teaching methodology. Health and recreation as they relate to elementary school children are studied.

†PET 3944C SEMINAR AND INTERNSHIP II

(5)

Physical education teaching experience is provided at various grade levels. Seminars are concerned with organization, evaluation, and extra-class activities. Individual teaching is analyzed and programmed.

PET 4302 PRINCIPLES AND ISSUES IN COACHING

(4)

The application of principles from philosophy, psychology, sociology, and physiology to competitive athletics and coaching.

†PET 4361C APPLIED HUMAN KINETICS I

(4)

The focus is one the biomechanical analysis of movement in dance and selected sports, physical fitness, and exercise principles as related to teaching. Emphasis is directed to developing competency in teaching all aspects of individual and team sports and in teaching specialized health-related topics such as weight control and individual fitness assessment techniques.

†PET 4362C APPLIED HUMAN KINETICS II

(4)

The biomechanical analysis of movement, principles of psychomotor learning, teaching methodologies, and teaching competencies in individual and team sports and in teaching specialized health-related topics such as weight control and individual fitness assessment techniques.

†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 4909 DIRECTED STUDY: PROFESSIONAL PHYSICAL EDUCATION

(1-3)

PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

†PET 4943C SEMINAR AND INTERNSHIP III

(5)

Supervised teaching experiences in physical education at the secondary school level. On-campus seminars emphasize the influence of various teaching styles on the learning process; the process of individualizing learning experiences in the psychomotor, cognitive, and affective domain.

†PET 4944C SEMINAR AND INTERNSHIP IV

(5)

Supervised internship in physical education in the public schools or allied community-based programs. On-campus seminars explore relevant issues in the physical education profession.

PET 4946 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 an academic year or program closing. S/U only.

†Enrollment in these courses requires admission to the Physical Education Program.

GRADUATE COURSES

PET 6051C PROFESSIONAL ASSESSMENT

(3)

Selected reading of current trends in physical education; discussion of philosophies of teaching; and individual appraisal of knowledge, values attitudes and professional competencies.

PET 6205 SOCIO-PSYCHOLOGICAL ASPECTS OF HUMAN MOVEMENT

(3)

Involves the psychological and sociological implications of movement to historical and contemporary man. Emphasis on concept, role of movement in society and values and attitudes held toward movement.

PET 6296 SPECIALIZED STUDY IN SOCIOPSYCHOLOGICAL ASPECTS OF HUMAN MOVEMENT: (SUBJECT)

(1-4)

Will provide in depth study in specific areas related to sociological and psychological principles of human movement. May be repeated for credit.

PET 6345 BIO-KINETICS OF HUMAN MOVEMENT

(3)

Integration of basic kinesiological foundations applied to teaching

physical education. Specific topics include: physical growth and neuro-muscular development, physical principles of human movement and the effects of exercise on the muscular and cardiorespiratory systems.

PET 6396C SPECIALIZED STUDY IN

BIO-KINETICS OF HUMAN MOVEMENT

(1-4)

Will provide in-depth study in specific areas related to neurological, physiological, and mechanical principles of human development. May be repeated for credit.

PET 6425 CURRICULUM AND INSTRUCTIONAL PROCESS IN PHYSICAL EDUCATION

(3)

Application of learning theory and education innovations, study of structure of subject matter and styles of teaching and investigation of the nature of the learner as these relate to teaching physical education. Fieldwork may be a requirement of this course.

PET 6496 SPECIALIZED STUDY IN CURRICULUM AND INSTRUCTIONAL PROCESS IN PHYSICAL EDUCATION

(1-4)

Will provide in-depth study in specific areas related to the teaching-learning process of physical education. May be repeated for credit.

PET 6645 PHYSICAL EDUCATION FOR THE HANDICAPPED

(4)

The course is concerned with the motor performance and physical fitness of handicapped individuals. Study includes psycho-educational characteristics; planning, conducting, and evaluating individualized programs of physical education; and review of relevant literature. Fieldwork may be required.

PET 6646 PHYSICAL EDUCATION FOR THE HANDICAPPED PRACTICUM

(2-4)

PR: PET 6645 or CI. School or treatment center based on experiences providing evaluation and instructional services. Seminars are conducted to discuss professional literature, teaching strategies and curriculum organization and evaluation. May be repeated for credit.

PET 6901L RESEARCH PROJECT IN PHYSICAL EDUCATION

(1-4)

In-depth research study of selected topics concerning human movement. Topics will vary according to needs and interests of students. May be repeated for credit.

READING EDUCATION

UNDERGRADUATE COURSES

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 4337 READING IN THE SECONDARY SCHOOL

(3)

PR: CI. Basic course in Reading for Secondary school personnel. Work with a student is required.

RED 4360 READING IN SECONDARY CONTENT AREAS

(2)

PR: CI and other content area PR or CR. 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 4515 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.

RED 4905 INDEPENDENT STUDY: READING 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.)

RED 4909 DIRECTED STUDY: READING EDUCATION

(1-3)

PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

RED 4945 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 year experiences when taken in Fall Semester. (S/U only.)

RED 4946 INTERNSHIP

(1-2)

PR: Admission to the College of Education and/or departmental ap-

proval. Internship in an accredited public or private school which will include the end of an academic year or program closing. (S/U only.)

GRADUATE COURSES

RED 6116 FOUNDATIONS OF ELEMENTARY READING INSTRUCTION (3)

PR: RED 4310 or equivalent course. Study of approaches, materials, and procedures in Elementary Reading instruction, with emphasis on pertinent research. Not for undergraduate nor to be used as a first course in Reading.

RED 6247 CURRICULUM AND SUPERVISION PROBLEMS IN READING (3)

PR: EDF 6431, RED 6116, RED 6546, RED 6548, or CI. Planning and administering programs and preparation as consultants in reading. Intensive work on individual project required.

RED 6365 READING IN SECONDARY AND HIGHER EDUCATION (3)

PR: CI and graduate standing; RED 4310, RED 4337, or RED 4360. Designed for students and inservice teachers with appropriate B.A. degrees. Content covers Secondary, Community College and University levels. Organization permits student to work on applications to their levels and disciplines. Research paper required.

RED 6516 CORRECTIVE READING IN THE CLASSROOM (3)

PR: RED 4310 or equivalent. Use of diagnostic and prescriptive procedures with individual and group reading instruction.

RED 6546 DIAGNOSIS OF READING DISABILITIES (3)

PR: EDF 6431, RED 6116. Causes of reading disability; techniques and materials in diagnosis of reading problems, including telebinocular and audiometer screening. Diagnoses of reading disabilities are required.

RED 6548 TECHNIQUES OF REMEDIAL READING (3)

PR: EDF 6431, RED 6116, and RED 6546. Materials and methods in remediation of moderate to severe reading disability cases. Supervised individual tutoring and in-depth evaluation and use of materials.

RED 6747 SURVEY OF READING RESEARCH (2)

PR: EDF 6431, RED 6116, RED 6546, CI. This course will address topics related to the location of research information, to the reading and evaluation of research, and to the identification and understanding of important studies. May be repeated up to 4 hours.

RED 6748 PROJECT IN READING RESEARCH (2)

PR: EDF 6431, EDF 6481, RED 6116, RED 6546, RED 6747, CI. This course continues the study of research in reading and culminates in a written paper reviewing the research in a specific area. May be repeated up to 6 hours.

RED 6838 PRACTICUM IN READING (3)

PR: EDF 6431, RED 6116, RED 6546, RED 6548, and CI. Remediation of severe reading disability cases, tutoring of individuals and smaller groups, interview techniques, preparation of case reports.

RED 7048 READING AS A SYMBOLIC PROCESS (3)

PR: RED 6116 or RED 6365. Advanced graduate standing in Reading/Language Arts or CI. Examination and understanding of the relationship of the various perceptual, learning, affective, and cognitive processes to the acquisition of reading competencies.

RED 7848 ADVANCED CLINICAL PRACTICUM READING (3-6)

PR: EDF 6143, RED 6546, RED 6548, RED 6838, and Advanced Graduate standing in Reading/Language Arts. Clinical diagnosis and remediation of severe reading disability cases with emphasis on multi-disciplinary approach. May be repeated for a maximum of six hours.

RED 7938 ADVANCED GRADUATE SEMINAR IN READING/LANGUAGE ARTS (2)

Discussion and evaluation of current issues and research in Reading/Language Arts and related fields. Must be repeated for six semester hours. Required for each Ph.D. student. (Topics differ each semester.)

SCIENCE EDUCATION

UNDERGRADUATE COURSES

SCE 4305 COMMUNICATION SKILLS IN THE SCIENCE CLASSROOM (2)

PR: RED 4360 or CR in RED 4360. Reading and communication

skills important in understanding scientific literature and communicating findings to others.

SCE 4320 TEACHING METHODS FOR JUNIOR HIGH SCHOOL SCIENCE (3)

PR: Completion of 25 semester hours of Science or C. Survey techniques and materials unique to science, Grades 7-9. 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 of CE completion of EDG 4200 or CR in EDG 4200. Techniques and materials of instruction in secondary school sciences.

SCE 4630 NEW TRENDS IN TEACHING THE PHYSICAL SCIENCES (3)

Physical Science Study Committee Physics. Chemical Education Materials Study and other new approaches to the teaching of the physical sciences. Recommended for teachers of Physics, Chemistry and Earth Sciences.

SCE 4631 NEW TRENDS IN TEACHING BIOLOGY (3)

Recent developments in curriculum materials and in strategies for teaching biological sciences, grades 7-12. Recommended for pre-service teachers of secondary school biology.

SCE 4905 INDEPENDENT STUDY: SCIENCE 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.)

SCE 4909 DIRECTED STUDY: SCIENCE EDUCATION (1-3)

PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

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. In special programs where the intern experience in distributed over two or more Semesters, students will be registered for credit which accumulates from 9 to 12 Semester hours. (S/U only.)

SCE 4945 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 year experiences when taken in Fall Semester. (S/U only.)

SCE 4946 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 an academic year or program closing. (S/U only.)

GRADUATE COURSES

SCE 5937 SELECTED TOPICS IN SCIENCE EDUCATION (1-4)

May be repeated when topics are not duplicated.

SCE 6336 TEACHING SECONDARY SCHOOL BIOLOGY (3)

PR: CI. Effective use and production of instructional materials in the biological sciences. Interrelation of philosophy, materials, and classroom practices.

SCE 6436 TEACHING SECONDARY SCHOOL PHYSICAL & EARTH SCIENCE (3)

PR: CI. Effective use and production of instructional materials in the physical and earth sciences. Interrelation of philosophy, materials, and classroom practices.

SCE 6634 CURRENT TRENDS IN SECONDARY SCIENCE EDUCATION (3)

PR: Bachelor's degree with major in science area: certification in secondary science, or CI. Curricular patterns and instructional practices in secondary science.

SCE 7641 PROGRAMS AND RESEARCH IN EARTH SCIENCE EDUCATION (3)

PR: Master's degree or equivalent in Science Education or CI. A study of curricula, issues, and research in Earth Science Education, grades K-12. Also included are the study and application of: (1) skills for assisting pre- and in-service school personnel with Earth Science in-

struction; and (2) skills for developing Earth Science curricula.

GRADUATE COURSES

SCE 7642 PROGRAMS AND RESEARCH IN LIFE

SCIENCES EDUCATION (3)

PR: Master's degree or equivalent in Science Education or CI. A study of curricula, issues and research in Life Science Education, grades K-12. Also included are the study and application of: (1) skills for assisting pre- and in-service school personnel with Life Science instruction; and (2) skills for developing Life Science curricula.

SCE 7643 PROGRAMS AND RESEARCH IN

PHYSICAL SCIENCE EDUCATION (3)

PR: Master's degree or equivalent in Science Education or CI. A study of curricula, issues and research in Physical Science Education, grades K-12. Also included are the study and application of: (1) skills for assisting pre- and in-service school personnel with Physical Science instruction; and (2) skills for developing Physical Science curricula.

SOCIAL SCIENCE EDUCATION

UNDERGRADUATE COURSES

SSE 4333 INTRODUCTION TO TEACHING SECONDARY

SOCIAL SCIENCE EDUCATION (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 (1-4)

PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated when subjects vary. (S/U only.)

SSE 4909 DIRECTED STUDY: SOCIAL SCIENCE

EDUCATION (1-3)

PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

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 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 accumulated from 9 to 12 Semester hours. (S/U only.)

SSE 4945 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 year experiences when taken in Fall Semester. S/U only.

SSE 4946 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 an academic year or program closing. S/U only.

GRADUATE COURSES

SSE 6117 ELEMENTARY SOCIAL STUDIES

CURRICULUM (3)

PR: Admission to College of Education or CI. Evaluation of past and present curriculum in Elementary Social Studies.

SSE 6133 SECONDARY SOCIAL SCIENCE

CURRICULUM (3)

PR: Admission to College of Education or CI. Evaluation of past and present curriculum in Secondary Social Science.

SSE 6354 CRITIQUE OF SELECTED SOCIAL

SCIENCE EDUCATION LITERATURE (3)

PR: Major in Secondary Social Science or CI. An investigation into various selected readings in Social Science Education literature.

SSE 6645 EVALUATION AND IMPLEMENTATION OF

MEDIA IN SOCIAL STUDIES (3)

PR: CI. Techniques of evaluation and using various media in the Social Studies.

SSE 6636 CURRENT TRENDS IN SECONDARY

SOCIAL STUDIES (3)

PR: SSE 4333 or equivalent or CI. Curricular patterns and instructional practices in Secondary Social Studies.

SSE 6647 INSTRUCTIONAL PROBLEMS AND

STRATEGIES IN SOCIAL STUDIES: ELEMENTARY,

MIDDLE, OR SECONDARY SCHOOL (3)

PR: Admission to Secondary Social Science or CI. Investigation of problems confronted when teaching Social Studies in the elementary, middle, or secondary school.

SSE 6795 REVIEW OF RESEARCH IN SOCIAL

SCIENCE EDUCATION (3)

PR: EDF 4430 or EDF 6431. Graduate Students in Education or CI. Investigation into and an evaluation of the research in Social Science Education.

SSE 6939 SEMINAR IN SOCIAL SCIENCE

EDUCATION (1-3)

PR: EDF 4430 or EDF 6431, or CI. To increase general technological knowledge of graduate students in Social Science Education.

SPECIFIC LEARNING DISABILITIES EDUCATION

UNDERGRADUATE COURSES

ELD 4011 THEORIES IN SPECIFIC LEARNING

DISABILITIES (4)

PR: EEX 3010. 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 SKILLS IN DIAGNOSIS AND

INSTRUCTION FOR CHILDREN WITH SPECIFIC

LEARNING DISABILITIES (4)

PR: ELD 4011 and a Specific Learning Disabilities major. Instructional diagnosis and individualizing instruction for children with specific learning disabilities.

ELD 4905 INDEPENDENT STUDY: SPECIFIC

LEARNING DISABILITIES (1-4)

PR: CI. Specialized independent study determined by student's needs and interests. May be repeated 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 4936 SENIOR SEMINAR IN SPECIFIC

LEARNING DISABILITIES (2)

PR: Senior standing. Synthesis of teacher candidate's courses in complete college program. Required concurrently with internship.

ELD 4940 INTERNSHIP: SPECIFIC LEARNING

DISABILITIES (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, the students will be registered for credit which accumulates from 9 to 12 Semesters hours. (S/U only.)

ELD 4944 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 8 hours.

ELD 4945 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 year experiences when taken in Fall Semester. S/U only.

ELD 4946 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 an academic year or program closing. S/U only.

EPH 4945 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 year experiences when taken in Fall Semester. S/U only.

EPH 4946 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 an academic year or program closing. S/U only.

EVI 4945 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 year experiences when taken in Fall Semester. S/U only.

EVI 4946 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 an academic year or program closing. S/U only.

GRADUATE COURSES**EDG 5734 PLURALISM AND ITS EDUCATIONAL IMPLICATIONS (3)**

Characteristics and needs of the culturally disadvantaged and their implications for educational programming.

EDG 6946 FIELD WORK WITH POTENTIALLY HANDICAPPED (CULTURALLY DISADVANTAGED) (1-6)

Teaching and participation in activities related to teaching disadvantaged young children.

ELD 6115 ADVANCED ASSESSMENT AND PROCEDURES FOR SPECIFIC LEARNING DISABLED YOUNGSTERS (4)

PR: ELD 6141, EEX 6201. Advanced assessment and educational procedures for the specific learning disabled student.

ELD 6141 CURRENT TRENDS, AND ISSUES RELATED TO EDUCATING SPECIFIC LEARNING DISABILITIES CHILDREN (4)

PR: Introductory course in exceptional child education, graduate standing. Various conceptual and/or theoretical models are reviewed, current trends and issues related to educating children with specific learning disabilities.

EPH 5051 BIOLOGICAL AND FUNCTIONAL ASPECTS OF 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 TEACHING THE PHYSICALLY AND MULTI-HANDICAPPED STUDENT (3)

PR: EPH 5051. Educational management of students with cerebral palsy, motor disabilities and multi-handicapping conditions including rehabilitation and other community services.

EVI 5311 THE VISUALLY HANDICAPPED IN THE CLASSROOM (3)

PR: EEX 3010 and CI. The visually handicapped in the classroom, structure, hygiene and educational implications.

SPEECH COMMUNICATION-ENGLISH EDUCATION**UNDERGRADUATE COURSES****SED 4335 METHODS OF TEACHING SPEECH COMMUNICATION (3)**

PR: 14 Semester hours in speech/communication or CI. Investigation of curricular program in speech communication including courses, curriculum guides, preparation of units and lessons; determination of objects and teaching strategies; problems of teachers; completion of course with C grade required for recommendation for internship.

SED 4371 DIRECTING SPEECH ACTIVITIES IN THE SECONDARY SCHOOL (3)

PR: 10 hours of speech communication courses or CI. Coaching and directing cocurricular activities in discussion, debate, oratory, theatre, oral interpretation, and extemporaneous speaking. Planning and supervision of tournaments, contest, and festivals. Observations required.

SED 4374 READING IN SPEECH COMMUNICATION INSTRUCTION (2)

PR: RED 4360 or in conjunction with this course. Strategies and materials for teaching oral and silent reading in speech and theatre classes at the secondary school level.

SED 4905 INDEPENDENT STUDY: SPEECH COMMUNICATION-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.)

SED 4909 DIRECTED STUDY: SPEECH COMMUNICATION-ENGLISH EDUCATION (1-3)

PR: Senior standing. To extend competency in teaching field. Offered only as a scheduled class.

SED 4936 SENIOR SEMINAR IN SPEECH COMMUNICATION-ENGLISH EDUCATION (2)

PR: Senior standing. Synthesis of teacher candidate's courses in complete college program. Required concurrently with internship.

SED 4940 INTERNSHIP: SPEECH COMMUNICATION-ENGLISH EDUCATION (1-12)

One full Semester of internship in 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.)

SED 4945 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 year experiences when taken in Fall Semester. (S/U only.)

SED 4946 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 an academic year or program closing. (S/U only.)

COLLEGE OF ENGINEERING

Professors: J. L. Allen, M. W. Anderson, G. K. Bennett, J. C. Bowers, G. A. Burdick, J. C. Busot, T. M. Chen, M. R. Donaldson, L. F. Doty, O. N. Garcia, S. J. Garrett, H. Glass, J. O. Gonzalez, J. E. Griffith, R. E. Henning, V. K. Jain, S. C. Kranc, A. D. Kraus, J. A. Llewellyn, L. W. Oline, B. E. Ross, L. A. Scott, N. C. Small, William A. Smith, L. A. Weaver, R. J. Wimmert; *Associate Professors:* W. C. Carpenter, R. A. Crane, K. H. Kim, M. G. Kovac, D. C. Naehring, H. A. Nienhaus, J. L. Ratliff, W. H. Skelton, C. A. Smith, M. R. Varanasi, S. J. Ying; *Assistant Professors:* E. M. Ali, R. P. Carnahan, J. Chrissis, J. F. Devine, J. T. Franques, E. L. Gallizzi, R. Gilbert, T. T. John, D. L. Kimbler, N. H. McDonald, S. Pham, K. A. Ramanarayanan, S-F Su; *Instructors:* K. Freeman, D. Gooding, J. Leffew; *Lecturers:* G. Gordon, J. A. Shortall; *Other Faculty:* G. Card, S. J. Henderson, A. E. Karst, C. J. Kibert, R. Landry.

BASIC AND INTERDISCIPLINARY ENGINEERING**UNDERGRADUATE COURSES****EEN 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.)

EEN 1115 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 1402 GRAPHIC ANALYSIS III** (2)
PR: EGN 1115. An elective course designed for students with limited background in pre-calculus mathematics necessary for graphical processes. Emphasis on graphical concepts of algebraic and trigonometric relationships.
- EGN 1403 GRAPHIC ANALYSIS IV** (2)
Continuation of EGN 1402.
- EGN 2021L INTRODUCTION TO ENGINEERING I** (3)
To present an overview of Engineering, its role and its concepts. Experimental program; see adviser.
- EGN 2210 FORTRAN FOR ENGINEERS** (3)
FORTRAN programming for engineers. Solving engineering type problems using the computer; introduction to programming algorithms used by the practicing engineer.
- EGN 2410 ENGINEERING PROBLEMS I** (2)
PR: MAC 3281. Elective course for engineering majors. Applied problems paralleling mathematics sequence.
- EGN 3313 STATICS** (2)
PR: MAC 3281. Principles of statics, mechanical equilibrium, forces, moments, plane trusses. Lec.-pro.
- EGN 3321 DYNAMICS** (3)
PR: EGN 3313. Dynamics of discrete particles; kinematics and kinetics for rigid bodies. Lec.
- EGN 3331 MECHANICS OF MATERIALS** (3)
PR: EGN 3321. Stress, strain, Hooke's Law; torsion, beam, column analysis; combined stresses; inelastic effects, limit design. Lec.
- EGN 3331L MECHANICS OF MATERIALS LABORATORY** (1)
PR: EGN 3331. Experiments in the mechanics of deformable bodies. Lab.
- EGN 3343 THERMODYNAMICS I** (3)
PR: PHY 3041. Introduction to Thermodynamics; Thermodynamic concepts of system, control volume, process, cycle, property, and state, The Zeroth Law of Thermodynamics and temperature scales. Properties of ideal and real substances. Concepts of Work and heat. The First Law of Thermodynamics.
- EGN 3354C BASIC FLUID MECHANICS** (3)
PR: 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 3313. 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: MAC 3283, PHY 3041, PHY 3041L. A course sequence in linear passive circuits, electronic circuits, and electromechanical devices. Physical principles and modes. Transient and steady-state analysis. System consideration.
- 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 3433L MODELING AND ANALYSIS** (3)
PR: PHY 3041, PHY 3041L. Linear dynamic analysis of electrical, mechanical, pneumatic, hydraulic and thermal systems. Laplace transformation, block diagram representation, transient and frequency response. Lec.-dem.
- 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 3613 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 4355 COMPRESSIBLE FLOW** (2)
PR: EGN 3354C Fundamental and experimental concepts in compressible flow theory of fluids.
- EGN 4366 MATERIALS ENGINEERING II** (3)
PR: 3365L Phase equilibria and its relation to the microstructures and properties of multiphase materials. Heat treatment and processing of steel, aluminum, and titanium alloys.
- EGN 4420 NUMERICAL METHODS OF ANALYSIS** (3)
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 4421 ENGINEERING ANALYSIS I** (3)
PR: MAC 3283. Application of differential equations.
- 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 4933 SPECIAL TOPICS** (1-5)
New technical topics of general interest on an intermediate or experimental basis. May be repeated to a total of 10 credit hours.
- EGN 4935 PROFESSIONAL ENGINEERING SEMINAR I** (1-5)
PR: CI. A lecture-discussion seminar on modern trends in the engineering profession.
- EGN 4936 PROFESSIONAL ENGINEERING SEMINAR II** (1-5)
PR: CI and Senior standing. An examination of current engineering and related problems facing the graduating senior.

GRADUATE COURSES

- EGN 5422, 5423, 5424, 5425 ENGINEERING ANALYSIS II, III, IV, V** (3,3,3,2)
PR: CC or MAP 4302. (1) A course sequence covering ordinary differential equations with emphasis on series solutions and numerical methods. (2) Vector Analysis, partial differential equations, boundary value problems and orthogonal functions. (3) & (4) Functions of a complex variable with applications, topics.
- EGN 6907 INDEPENDENT STUDY** (var.)
Independent study in which students must have a contract with an instructor. Repeatable. (S/U only.)
- EGN 6911 DIRECTED RESEARCH** (var.)
PR: GR. Master's level. Repeatable. (S/U only.)
- EGN 6971 THESIS: MASTER'S** (var.)
Repeatable. (S/U only.)
- EGN 6991 GRADUATE INSTRUCTION METHODS** (1-5)
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of 5 credits per student. (S/U only.)
- EGN 6992 GRADUATE RESEARCH METHODS** (1-5)
Special course to be used primarily for the training of graduate research assistants. Variable credit, repeatable. Limited to a cumulative total of 5 credits per student. (S/U only.)
- EGN 7911 DIRECTED RESEARCH** (var.)
PR: GR. Ph.D. level. Repeatable. (S/U only.)
- EGN 7980 DISSERTATION: DOCTORAL** (var.)
PR: Must be admitted to Doctoral Candidacy. Repeatable. (S/U only.)

CHEMICAL AND MECHANICAL ENGINEERING

UNDERGRADUATE COURSES

- ECH 4413 SEPARATION PROCESSES AND PHASE EQUILIBRIA** (4)
PR: EMC 3103. Phase equilibria in the context of design and selection of separation processes. Familiarization with computational approaches used in process design and use of state of the art correlation for equipment specification.
- ECH 4415 REACTING SYSTEMS AND CHEMICAL EQUILIBRIA** (4)
PR: ECH 4413. Equilibria and rate phenomena in reacting systems. Description of homogeneous chemical reactors for process design and control.
- ECH 4615 PLANT DESIGN AND ECONOMICS** (4)
PR: Senior standing in chemical engineering and CI. This course will expose students to the design of a major process. Design problems obtained from industry are used. Attention is given to techniques for estimating capital and operating costs and methods available for selection of alternatives. Constraints imposed on design by safety and environmental protection are emphasized.

ECH 4714 INDUSTRIAL CHEMISTRY (2)

PR: CHM 3210, ECH 4415. A critical study of selected chemical process industries in order to give the student a better understanding of the direct application of basic chemical process principles.

EMC 3103 THERMODYNAMICS II (4)

PR: EGN 3343. Mass and energy balances on steady and unsteady state systems with and without chemical reactions. Combustion processes, power and refrigeration cycles.

EMC 3117 TRANSPORT PROCESSES I (4)

PR: EGN 3343. Principles of momentum, heat, and mass transfer. Boundary layer theory and pipe flow. Emphasis given to pumping and metering of compressible and incompressible fluids. Selection of proper fluid handling equipment to satisfy realistic process demands.

EMC 3303 CHEMICAL AND MECHANICAL ENGINEERING LABORATORY I (2)

PR: EGN 3343, EMC 3301. Introduction to engineering laboratory measurement with emphasis on the use of the library and the writing of technical reports. Experiments in the measurement of temperature, pressure, fluid flow, psychrometric properties of air, concentration, viscosity. Determination of mass-energy balances of simple systems. Preparation of formal engineering reports covering laboratory work.

EMC 4112 ELECTRONIC EQUIPMENT COOLING (2)

PR: EGN 3374 of CI. Fundamentals of conduction, convection and radiation. Analysis of extended surfaces. Printed circuit board thermal analysis. Semiconductor performance and derating as a function of environmental control. Free and forced convection as applied to electrical and electronic components. Thermo-electric cooling and performance of cold plate heat exchangers. Microelectronics applications.

EMC 4118 TRANSPORT PROCESSES II (4)

PR: EMC 3117. Principles of momentum, heat and mass transfer. Emphasis on process heat transfer and mass transfer operations. Selection of heat exchangers and application to humidification and scrubbing.

EMC 4302 INSTRUMENT SYSTEM II (2)

PR: EMC 3301 or CI. An introduction to digital devices and their applications in instrumentation, process monitoring and control.

EMC 4311L CONTROLS LABORATORY (1)

PR: EGN 3433. CR: EMC 4314. Familiarization with and performance testing of automatic control systems.

EMC 4314 AUTOMATIC CONTROLS I (4)

PR: EGN 3433, EMC 3103, EMC 4118; CR: EMC 4411. Analysis of devices for measurement and control and factors affecting process dynamics. Block diagram representation of control systems. Modes of control for single loops and consideration of advanced techniques such as feed forward and ratio control. Lec.-lab.

EMC 4411 COMPUTER SIMULATION I (2)

PR: EGN 3433. The use of computers to study the dynamic behavior of chemical and mechanical engineering processes.

EMC 4522L CHEMICAL AND MECHANICAL ENGINEERING LABORATORY II (1)

PR: EMC 3303L. Continuation of EMC 3303L with emphasis on material and energy balances of mechanical and chemical systems and processes. Lec.-lab.

EMC 4523L CHEMICAL AND MECHANICAL ENGINEERING LABORATORY III (1)

PR: EMC 4522L or CI. Continuation of EMC 4522L. Emphasis on experiments involving momentum transfer and non-Newtonian fluids, heat transfer and mass diffusion.

EMC 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. (S/U only.)

EMC 4930 SPECIAL TOPICS IN CHEMICAL AND MECHANICAL ENGINEERING I (1-4)

PR: CC.

EMC 4931 SPECIAL TOPICS IN CHEMICAL AND MECHANICAL ENGINEERING II (1-4)

PR: CC.

EML 3264 KINEMATICS (2)

PR: MAC 3282, PHY 3040. Plane and angular motion; determination of velocities and accelerations in mechanisms. Rolling and sliding contact pairs, cams, gearing.

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 transmis-

sion, code consideration of pressure and vacuum vessels, elements of design.

EML 4260C DYNAMICS OF MACHINERY I (3)

PR: EML 3264. Static forces and inertia forces in machines, flywheels, balancing rotating masses, balancing reciprocating masses, gyroscopic effects, mathematical analysis of lumped parameter mechanical systems.

EML 4503 MACHINE ANALYSIS AND DESIGN II (3)

PR: EML 3500. Continuation of EML 3500. Antifriction bearings, journal bearings, power transmission, shafting.

EML 4513 POWER PLAN ANALYSIS AND DESIGN (3)

PR: EMC 3103, EMC 3117. Basic considerations of power plant design and equipment selection. Fuels, combustion, steam generator design. Reheat-regeneration cycles, heat rate, load management economics.

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.

EML 4552C PROJECT DESIGN II (3)

PR: EML 4509 or CC. Comprehensive design or feasibility study project. In some cases may be a continuation of EML 4509.

EML 4601 REFRIGERATION AND AIR CONDITIONING (3)

PR: EMC 3103, EMC 3117. Application of thermodynamics, heat transfer, and fluid flow to sizing of HVAC systems. Heating and cooling calculations, air requirements, estimation, duct sizing.

ENU 4142 INTRODUCTION TO NUCLEAR ENGINEERING (3)

PR: EMC 3103, EMC 3117 or CI. Fundamentals of nuclear reactors, core physics, and fuel enrichment, reactor power cycles, transient reactor performance.

GRADUATE COURSES**ECH 6217 ADVANCED TRANSPORT PHENOMENA (3)**

PR: EMC 4118 or CI. Heat, momentum and mass transport with multiphase materials. Basic flow regimes in multiphase flow. Baker plots and methods of flow prediction, slip correlations, Martinelli-Nelson correlations and two phase corrections. Analysis of packed and fluidized beds.

ECH 6218 ADVANCED TRANSPORT ANALYSIS (3)

PR: CI. Steady and transient multi-dimensional momentum and mass transport, emphasis on solution techniques, analytic and numerical.

ECH 6515 REACTING SYSTEMS (3)

PR: ECH 4415 or CI. Dynamics of heterogeneous reactions. Economic factors in the design of chemical reactors. Simulation of complex reacting systems.

ECH 6616 DESIGN AND CASE STUDIES (3)

PR: ECH 4615. Plant and process design with emphasis on computer aided design.

EMC 5107 INDUSTRIAL ENERGY CONSERVATION (3)

PR: CI. Methods of efficient energy utilization in process industries. Process heat requirements and cogeneration. Energy audits and plant surveys, energy efficient equipment selection.

EMC 5115 PROCESS HEAT TRANSFER (3)

PR: EMC 4118. Selection and sizing of common process heat transfer equipment. Single and multiple convection in shell and tube, flat plate and spiral plate exchangers. Fouling mechanisms and their control. Combined heat and mass transfer in partial condensers, spray dryers and cooling towers. Operational problems and solutions.

EMC 5129C TRANSPORT PHENOMENA PROJECTS (3)

PR: CI. Design, evaluation and feasibility study projects in transport phenomena. Content varies each term. May be repeated.

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.

EMC 5304C INSTRUMENT SYSTEMS III (3)

PR: EMC 4302. Microprocessors and microcomputer applications in instrumentation, process monitoring and control.

EMC 5305 INSTRUMENTAL ANALYSIS (3)

PR: CHM 2047, PHY 3042. This course deals with the engineering bases of a variety of sophisticated instrumental techniques for chemical analysis. Emphasis is placed on the physical basis of the instrument and its design rather than on the interpretation of the

- analysis systems to be examined including light r.f. spectroscopy, mass spectrometry and methods which depend on various transport properties.
- EMC 5315 MACHINE CONTROL SYSTEMS** (3)
PR: EMC 4314 or CI. Machine control system components and their effects on closed loop system performance. Transfer characteristics of hydraulic, pneumatic and electrical elements and processes.
- EMC 5510 MOTOR SELECTION AND CONTROL** (2)
PR: EGN 3373, EGN 3433. Standard electrical voltages. NEMA motor designs, techniques for estimating motor starting times and temperature rise. Control system elements, interlocks, electrical code requirements for conductors and protective devices.
- EMC 5591C ENERGY CONVERSION PROJECTS** (3)
PR: CI. Design projects in the area of energy conversion. Content varies each term.
- EMC 5651 INDUSTRIAL AIR POLLUTION CONTROL** (3)
PR: CI. A basic course in the elements of large source air pollution and control. Major units to be considered: Sources, meteorology, diffusion, local influences, control measures, emergencies, protection.
- EMC 5930 SPECIAL TOPICS III** (1-4)
PR: CC.
- EMC 5931 SPECIAL TOPICS IV** (1-4)
PR: CC.
- EMC 6105 ADVANCED THERMODYNAMICS** (3)
PR: CC. Advanced treatment of the general equations of thermodynamics, principal equations of chemical reactions, chemical potential and equilibrium, analysis of metastable states. Irreversibility, steady and unsteady flow.
- EMC 6120 NUMERICAL METHODS IN HEAT TRANSFER** (3)
PR: CI. Application of finite difference and finite element techniques to problems of conduction and convection. Cartesian, cylindrical and spherical systems. Steady and transient solutions.
- EMC 6121 ADVANCED CONDUCTION ANALYSIS** (3)
PR: EMC 4118, EMC 4411. Multi-dimensional heat transfer. Emphasis on solution techniques exact and numerical.
- EMC 6122 RADIATION** (3)
PR: EMC 4118. Review of basic principles of radiation, grey bodies and real surfaces, calculation of shape factors, absorbing gases.
- EMC 6306C INSTRUMENT SYSTEMS IV** (3)
PR: CI. Advanced applications of computers to instrumentation and measurement systems. Case and project oriented.
- EMC 6317 DIRECT DIGITAL CONTROL I** (3)
PR: EMC 4314, EMC 4411, or CI. Application of digital computers to control of engineering processes. Includes study of digital filtering. Z-transforms, supervisory control, A/D and D/A conversion.
- EMC 6318 DIRECT DIGITAL CONTROL II** (3)
PR: EMC 6317 or CI. A continuation of EMC 6317 with detailed study of special cases. Cases will vary from term to term.
- EMC 6412 PROCESSES ANALYSIS AND MODELING** (3)
PR: CI. Computer controlled data acquisition and analysis aimed at development and evaluation of empirical and physical models of chemical and mechanical engineering processes.
- EMC 6520 ENERGY TRANSFORMATION AND STORAGE** (3)
PR: CI. Study of alternate energy sources and their future potential. Photovoltaic devices, fuel cells, MHD. Liquefaction and gasification of coal. Solar geothermal and OTEL systems.
- EMC 6650 PROCESS DESIGN FOR ENVIRONMENTAL PROTECTION** (3)
PR: ECH 4415 or CI. Equipment and process design with emphasis on discharge control and environmental protection. Economic and ecological constraints on optimum design.
- EMC 6906 DIRECTED RESEARCH** (var.)
PR: GR. Master's level. Repeatable (S/U only.)
- EMC 6907 INDEPENDENT STUDY** (var.)
PR: GR. Independent study in which students must have a contract with an instructor. Repeatable. (S/U only.)
- EMC 6930 SPECIAL PROBLEMS I** (1-3)
PR: CC.
- EMC 6931 SPECIAL PROBLEMS II** (1-3)
PR: CC.
- EMC 6938 GRADUATE INSTRUCTION METHODS** (1-4)
PR: CC. Special course to be used for training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of 4 credits per study. (S/U only.)
- EMC 6939 GRADUATE RESEARCH METHODS** (1-4)
PR: CC. Special course to be used for training of graduate research assistants. Variable credit, repeatable. Limited to a cumulative total of 4 credit hours per student. (S/U only.)
- EMC 6971 THESIS: MASTER** (var.)
PR: CC. Repeatable (S/U only.)
- EMC 7915 DIRECTED RESEARCH** (var.)
PR: CC and GR Ph.D. level. Repeatable (S/U only.)
- EMC 7980 DISSERTATION: DOCTORAL** (var.)
PR: Must be admitted to doctoral candidacy. Repeatable. (S/U only.)
- 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 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 5509 PROJECT DESIGN III** (2)
PR: CC. Correlation of previously acquired mechanical design experiences with a creative design project. Lec-lab.
- EML 5528 ANALYSIS METHODS FOR MECHANICAL DESIGN** (2)
PR: EML 4503, or CI. Treatment of stress, strain and strengths aspects of machine design. Application of failure theories, residual stresses and energy principles to machine elements.
- EML 6222 VIBRATION ANALYSIS** (3)
PR: EML 4265 of CI. Transient and steady state analysis of mechanical systems with lumped parameters. Computer simulation of systems. Application of generalized coordinates, matrix representation and other methods to lumped parameter systems.
- EML 6225 ACOUSTICS AND NOISE CONTROL** (3)
PR: CC. Fundamentals of sound propagation, sound power and intensity. Psychoacoustics, industrial noise sources and methods of attenuation. Noise ordinances and instruments for noise measurement.
- EML 6235 APPLIED ENGINEERING ASPECTS OF FATIGUE** (2)
PR: EML 5528 or CI. Evaluation of strength of machine members under fatigue loadings. Stress concentrations, residual stress effects, surface coatings, environmental effects. Statistical treatment in fatigue analysis.
- EML 6273 ADVANCED DYNAMICS OF MACHINERY** (3)
PR: EML 4265 or CI. Detailed study of velocities, accelerations and forces in machines with parts having rotating, reciprocating and combined motion.
- EML 6533 ADVANCED MECHANICAL DESIGN** (2)
PR: CC. A technical application course involving the problem of developing machines to perform specified functions. The analysis will include evaluation of kinematic performance, and examination of parts from stress, strain, wear and fabrication process.
- EML 6606 HVAC SYSTEMS** (3)
PR: EML 4601 or CI. Design of a HVAC system from concept stage to final plans and specifications, criteria for selection of systems type, performance characteristics of single zone, multizone, double duct and variable volume systems.

CIVIL ENGINEERING AND MECHANICS

UNDERGRADUATE COURSES

- CES 3400 DESIGN PRINCIPLES 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.
- CES 3402 CIVIL ENGINEERING LABORATORY** (1)
PR: EGN 3331, EGN 3354C, EGN 3365L. A laboratory experience in departmental facilities including the subject areas of structures, materials, fluids, transportation, soils, engineering mechanics and environmental engineering.
- CES 4001 STRUCTURES I** (3)
PR: EGN 3331. Analysis of simple structural systems, both deter-

- minate and indeterminate. Introduction to the use of energy methods in indeterminate structures.
- CES 4002 MATRIX STRUCTURAL ANALYSIS** (3)
PR: CES 4001, EGN 4420. Analysis of structures by use of matrix techniques and the digital computer. An introduction to finite analysis techniques.
- 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 4208 STRUCTURAL DYNAMICS** (3)
PR: CES 4001, EGM 4430. Behavior of structural components and systems when subjected to periodic dynamic loads.
- CES 4402 STRUCTURAL DESIGN-CONCRETE** (2)
PR: CES 4501. Design of concrete structures.
- CES 4403 HYDRAULIC DESIGN** (2)
PR: EGM 4816, ENV 4622. Design of hydraulic systems, including drainage, water supply, and flood control.
- CES 4404 FLUID SYSTEMS DESIGN** (2)
PR: EGM 4816. Design of fluid systems. Consideration of pressure, drag, and gravity forces.
- CES 4501 CONCEPTS OF STRUCTURAL DESIGN** (3)
PR: CES 4001. Applications of solid mechanics, material science and structural analysis to the design of buildings, bridges, and mobile structures. Review of current codes and specifications.
- CES 4502 STRUCTURAL DESIGN-STEEL** (2)
PR: CES 4501. Design of structures made of steel.
- CES 4700 CEMENT AND CONCRETE DESIGN** (2)
PR: EGN 3365L. Classifications and production of cements. Design and testing of concrete mixes to produce desired properties.
- CES 4704 STRUCTURAL DESIGN-CONCRETE** (2)
PR: CES 4501. Design of concrete structures.
- CES 4911 SENIOR PROJECT** (2)
PR: CI. Problem-solving experience and training for seniors in research and/or design projects. Written final reports are required.
- CES 4933 SPECIAL TOPICS IN CIVIL ENGINEERING AND MECHANICS** (1-5)
PR: CI. New technical topics of interest to civil engineering students.
- EAS 4101 HYDRO AND AEROMECHANICS** (3)
PR: EGN 3354, MAP 4302 Advanced fluid dynamics, ideal and viscous flows, applications to flow around immersed bodies.
- ECI 4311 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.
- ECI 4312 SOIL MECHANICS II** (3)
PR: ECI 4311. A study of the application of the principles of soil mechanics to problems in soils engineering.
- ECI 4640 GEOTECHNICAL DESIGN** (2)
PR: ECI 4311. Design of geotechnical systems including bases, foundations, embankments, and dams.
- ECI 4911 RESEARCH IN CIVIL ENGINEERING AND MECHANICS** (1-4)
PR: CC
- EGM 4430 SHOCK AND VIBRATIONS** (2)
PR: EGN 3321, MAP 4302. Response of mechanical systems to shock excitation; vibration of discrete and continuous bodies.
- EGM 4610 COMPUTATIONS IN CIVIL ENGINEERING** (3)
PR: MAP 4302. Development of techniques of applied mathematics to civil engineering problems, partial differential equations, vector analysis, complex variables.
- EGM 4816 HYDRAULICS** (3)
PR: EGN 3354C. Fundamental and applied aspects of pipe flow, free surface flow, and unsteady flow for hydraulic systems.
- 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 4324L CORROSION LABORATORY** (1)
PR: EMA 4324. Experimental potentiostatic and galvanostatic polarization studies related to various corrosion phenomena.
- EMA 4601 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, discussion of the various techniques of welding and joining materials, and discussion of the primary methods of shaping and forming materials.
- EMA 4703 CONCEPTS OF ENGINEERING MATERIALS** (3)
PR: EGN 3365L. 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** (3)
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.
- EMA 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.)
- ENV 3001 SOCIETAL ASPECTS OF ENVIRONMENTAL ENGINEERING** (3)
An introduction to various aspects of environmental problems faced by today's society. Readings and discussions are conducted concerning air pollution, water pollution, noise pollution, solid waste management, ionizing radiation, disease transmission, and food protection, with regard to aesthetic, legal, economic, technical, and political constraints. This course is acceptable as an Engineering Social Science and Humanities Elective and is *open to non-engineering students*.
- ENV 4111 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: ENV 4417. Laboratory experience in the measuring of environmental parameters.
- ENV 4417 WATER QUALITY AND TREATMENT** (3)
PR: EGM 4816. 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 4622 WATER RESOURCES ENGINEERING** (3)
PR: EGM 4816. 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.
- SUR 3101C ENGINEERING LAND SURVEYING** (2)
Principles of land surveying for engineering practice. Traverses, levels, boundary surveys, route surveys, coordinate geometry, and mapping.
- TTE 4004 TRANSPORTATION ENGINEERING I** (3)
PR: MAP 4302. Introduction to transportation engineering, including urban transportation planning, traffic control and highway design.
- TTE 4006 TRANSPORTATION ENGINEERING II** (3)
PR: TTE 4004. The planning and design of transportation systems.
- TTE 4721 TRANSPORTATION SYSTEMS DESIGN** (2)
PR: TTE 4404. Design of transportation systems, including airports, highways, mass transit systems, etc.

GRADUATE COURSES

- CES 5508 ADVANCED STRUCTURAL DESIGN I** (3)
PR: CES 4002, CES 4501. A study of design of complicated structural systems such as curved bridges, orthotropic bridges, tall buildings, towers, suspension structures.
- CES 5509. ADVANCED STRUCTURAL DESIGN II** (3)
PR: CES 5508 A study of design of complicated structural systems such as curved bridges, orthotropic bridges, tall buildings, towers, suspension structures.
- 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.

- 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.
- EGM 5352 FINITE ELEMENT METHODS I** (3)
PR: CI. Finite element methods in continuum mechanics with applications to solid and fluid mechanics problems.
- EGM 5562 MECHANICS OF COMPOSITE MATERIALS** (3)
PR: CES 4001. Physical and mathematical mode is for composites. Response to thermal, electrical and mechanical loading. Special composite systems and shapes, filamentary plates, shells, isotenoid domes.
- EMA 5644 ENGINEERING CERAMICS** (3)
PR: EGN 3365L and CI. Detailed examination of the materials of ceramic engineering and the engineering properties of advanced ceramic products.
- ENV 5007 ENVIRONMENTAL PLANNING** (3)
PR: CI. Study of comprehensive application of environmental control and protection techniques to the problems of environmental quality. Important aspects include air and water quality, amenities, waste management, land use practice, control of noise, and natural ecological factors. A design or analysis problem is an integral part of the course.
- ENV 5439 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 given to unit processes. The course is devoted to the design and analysis of specific wastewater treatment works.
- CES 6217 STRUCTURAL STABILITY** (3)
PR: CES 4002, CES 4208. Elastic and inelastic stability of trusses and frames, local bucking of structural members and plates.
- CES 6335 OPTIMIZATION TECHNIQUES IN CIVIL ENGINEERING** (3)
PR: CI. Theory and application of optimization techniques to the planning, design and operation of Civil Engineering Systems.
- CES 6915 DIRECTED RESEARCH** (1-9)
PR: GR. Master's level. Repeatable. (S/U only.)
- CES 6938 GRADUATE INSTRUCTION METHODS** (1-5)
Special course to be used primarily for the training of graduate research assistants. Variable credit, repeatable. Limited to a cumulative total of 5 credits per student. (S/U only.)
- CES 6939 GRADUATE RESEARCH METHODS** (1-5)
Special course to be used primarily for the training of graduate research assistants. Variable credit, repeatable. Limited to a cumulative total of 5 credits per student. (S/U only.)
- ECI 6206 COASTAL WAVES AND STRUCTURES** (3)
PR: CI. A study of the fundamentals of wave motion and the mutual interaction of waves and structures. A design project is included.
- ECI 6207 WAVES AND BEACH PROTECTION** (3)
PR: ECI 6206. A study of the fundamentals of shoreline dynamics including distribution of wave energy, motion of beach sand, stable configurations and protective measures.
- ECI 6208 COASTAL AND ESTUARY MODELING** (3)
PR: CI. Digital modeling of coastal and estuary systems, currents, tide heights, sediment transport, erosion, data collection, temperature distribution, sources and sinks. Special emphasis on Florida regions.
- ECI 6239 FREE SURFACE FLOW** (3)
PR: EGM 4816 or CI. Fundamental and applied aspects of free surface flow, including river hydraulics, canal flow, and open channel design.
- ECI 6631 HYDROLOGIC MODELS** (3)
A study of the theoretical principles of hydrologic modeling and an examination of various numerical hydrologic models available. Students will be required to develop and apply computer models.
- ECI 6632 URBAN HYDROLOGY** (3)
PR: CI. A study of the quantity and quality problems and solution techniques associated with urban runoff.

- ECI 6933 SPECIAL TOPICS IN CIVIL ENGINEERING AND MECHANICS** (1-4)
PR: CC
- ECI 6939 CIVIL ENGINEERING AND MECHANICS SEMINAR** (1-4)
PR: CC.
- ECI 6971 THESIS: MASTER'S** (var.)
Repeatable. (S/U only.)
- EES 6205 WATER QUALITY FOR ENGINEERS II**
PR: EES 5203, MCB 3010C Study of biochemical reactions and processes in treatment of pollutants with emphasis on control of effluents for the protection of water quality.
- EGM 6136 ADVANCED X-RAY METHODS** (3)
PR: CI. X-Ray diffraction, analytical and experimental studies of defects, texture, residual stress, crystal and polycrystalline aggregates. Lec.-lab.
- EGM 6261 ADVANCED DYNAMICS** (3)
PR: EGM 4430, EGM 5352. Elastic and plastic stress wave propagation in solids, experimental and theoretical treatment method of characteristics, use of finite element programs to solve multiple degree of freedom systems.
- EGM 6343 NUMERICAL METHODS IN ENGINEERING ANALYSIS** (3)
PR: EGN 4420. Application of computational and mathematical techniques and principles to advanced engineering problems.
- EGM 6353 FINITE ELEMENT METHODS II** (3)
PR: EGM 5352. Finite element methods in continuum mechanics with applications to solid and fluid mechanics problems. Unified approach to statics, dynamics and stability. Computer solutions.
- EGM 6611 CONTINUUM I** (3)
PR: CI. Formulation of fundamental problems in solids and fluids from a unified viewpoint; application to ideal media; elastic, plastic, and fluids.
- EGM 6655 CONTINUUM II** (3)
PR: EGM 5611. Theory of thermoelastic and viscoelastic behavior in continuous media; coupled thermodynamics and mechanical behavior; generalized constitutive relations.
- EGM 6656 THEORY OF ELASTICITY** (3)
PR: CI. Classical and contemporary elasticity theory with applications to engineering problems.
- EGM 6675 THEORY OF PLASTICITY** (3)
PR: CI. A study of the theory of plasticity including initial and subsequent yield surfaces, incremental and deformation theories.
- EGM 6796 PLATES AND SHELLS** (3)
PR: CES 4001, and CI. Elastic behavior of thin plate and shell structures.
- EGM 6814 ADVANCED FLUID MECHANICS** (3)
PR: EGM 4816. Formulation and analysis of problems in the flow of viscous and nonviscous fluids including Newtonian and Non-Newtonian flows. Mathematical methods and techniques of solutions.
- EMA 6236 DISLOCATION STRUCTURES AND PROPERTIES OF ENGINEERING MATERIALS** (3)
PR: EMA 4324. Dislocation interactions and structures in metals, principles of phase nucleation and growth, transformations and a study of the primary strengthening mechanisms in metals.
- EMA 6907 INDEPENDENT STUDY** (var.)
PR: CC. Independent study in which students must have a contract with an instructor. Repeatable. (S/U only.)
- ENV 6645 WATER RESOURCES SYSTEMS** (3)
PR: ENV 4622, CES 6335. The planning, design, and operation of water resources by the use of systems analysis and operations research techniques.
- CES 7915 DIRECTED RESEARCH** (var.)
PR: GR. Ph.D. level. Repeatable. (S/U only.)
- ECI 7980 DISSERTATION: DOCTORAL** (var.)
PR: Must be admitted to Doctoral Candidacy. Repeatable. (S/U only.)

COMPUTER SCIENCE AND ENGINEERING

UNDERGRADUATE COURSES

- CAP 4621 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.

CDA 4101 COMPUTER ORGANIZATION AND ARCHITECTURE

(3)
PR: COT 3001, EEL 4705, or CC. Elements of computer systems; processors, memories and switches. Register transfer presentation of a computer. ALUs and their implementation. The control unit. Memory and I/O. Hardware support of operating system functions. Multiprocessor systems. Economic considerations.

CDA 4171 MINICOMPUTER LABORATORY

(1)
CR: CDA 4101. Minicomputer organization and programming.

CDA 4905 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 4321 DATA PROCESSING APPLICATIONS

(3)
PR: EEL 4850C, EEL 4851C. An introduction to the principles of information processing and applications. Fundamentals of systems for management and control.

CIS 4911 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.

COC 4935 SPECIAL TOPICS IN COMPUTER SCIENCE I

(1-4)
PR: CC.

COP 2170 PROGRAMMING IN BASIC (CAI)

(1)
Laboratory course in theory and applications of BASIC interactive programming language using a minicomputer and CAI instruction.

COP 3150 PROGRAMMING IN APL (CAI)

(2)
PR: MAC 1104, MAC 1114. Laboratory course in fundamental theory and applications of APL programming language using a minicomputer and CAI learning technique.

COP 3510 INTRODUCTION TO COMPUTER SCIENCE

(2)
PR: EGN 2210. CR: COP 3510L. Introduction to the concepts of algorithmic formulation of problems for computer solution and the general abstract operations used in these formulations.

COP 3510L COMPUTER SCIENCE LABORATORY

(2)
CR: COP 3510. Laboratory for implementation of algorithms in a general purpose computer language.

COP 4400 COMPUTER SYSTEMS

(3)
PR: COP 3510, COP 3510L and MAC 3283 or CC. Principles of computer organization, machine and assembly language programming.

COP 4502 COMPARISON OF PROGRAMMING LANGUAGES

(3)
PR: EEL 4850C, 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 4550 PROGRAMMING LANGUAGES

(3)
PR: EEL 4851C and COP 4400. An introduction to programming languages, survey of language types and the design of translators and interpreters.

COP 4620 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 3001 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 4125 INTRODUCTION TO AUTOMATA THEORY AND FORMAL LANGUAGES

(3)
PR: EEL 4851C, COT 3001, or CC. Introduction to the theory and application of various types of computing devices and the languages they recognize.

COT 4130 SEQUENTIAL CIRCUITS

(3)
PR: EEL 4705, COT 3001. Digital circuits with feedback. Synthesis of clocked mode sequential circuits. Fundamental mode circuits. Design with LSI and MSI circuits.

COT 4300 ANALYSIS OF ALGORITHMS

(3)
PR: EEL 4851C and COT 3001. Design principles and analysis techniques applicable to various classes of computer algorithms frequently used in practice.

EEL 4705 LOGIC DESIGN

(3)
PR: EGN 3373. Students for whom this course is not required by their major may enroll with CC. 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 4706 TESTING AND FAULT TOLERANCE IN DIGITAL SYSTEMS

(3)
PR: COP 4400, COT 4130, or CC. Test generation for combinational and sequential digital circuits, fault analysis and diagnosis. Methods for reliability improvement through fault tolerant and testable circuit design. Introduction to software reliability.

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 4758 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 4850C PROGRAMMING METHODOLOGY

(3)
PR: Senior standing in Computer Science or CC: COP 3510. 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 3510. Fundamentals of data organization for purposes of program efficiency, clarity and simplicity will be discussed.

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 4853C DISTRIBUTED PROCESSING AND COMPUTER NETWORKS

(3)
PR: COP 4620, CDA 4101. Design and analysis of distributed processing systems. Covers communication hardware and software, network operating systems, and reliability enhancement techniques.

GRADUATE COURSES

CDA 6907 INDEPENDENT STUDY

(var.)
PR: Graduate standing. Independent study in which students must have a contract with an instructor. (S/U only.)

CDA 6910 DIRECTED RESEARCH

(var.)
PR: GR. Master's level. Repeatable. (S/U only.)

CDA 6911 GRADUATE RESEARCH METHODS

(1-4)
PR: Graduate standing. Special course to train graduate research assistants. Variable credit, repeatable. Limited to a cumulative total of 4 credits per student. (S/U only.)

CDA 6930 SPECIAL TOPICS IN COMPUTER SCIENCE AND ENGINEERING

(1-5)
PR: CC.

CDA 6940 GRADUATE INSTRUCTION METHODS

(1-4)
PR: Graduate standing. Special course to train graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of 4 credits per student. (S/U only.)

CDA 6971 THESIS: MASTERS

(var.)
PR: Graduate standing.

CDA 7910 DIRECTED RESEARCH

(var.)
PR: GR. Ph.D. level. Repeatable. (S/U only.)

CDA 7980 DISSERTATION: DOCTORAL

(var.)
PR: Admission to doctoral candidacy. Repeatable. (S/U only.)

COP 5001 TOPICS IN COMPUTERS AND PROGRAMMING

(4)
PR: CC. Survey of topics in machine organization systems programming, and data structures.

COP 6613 OPERATING SYSTEMS

(3)
PR: CC Operating systems functions and design, resource management, protection systems, process communication and deadlocks.

COP 6640 PROGRAMMING LANGUAGES AND TRANSLATION

(3)
PR: CC. Grammars and languages, symbols, strings, syntax, parsing, the design of a compiler, storage organization and symbol tables, translator writing systems.

- 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.
- EEL 6522 INFORMATION THEORY** (2)
PR: CC. Concepts of information, information channels, channel capacity, information sources and Shannon's fundamental theorem.
- EEL 6773 THREE-DIMENSIONAL GRAPHICS AND SYSTEMS** (3)
PR: EEL 5771 or CC. Advanced course covers the methods of representation of three dimensional objects in the plane of the graphics screen and the hardware and software required for their processing.
- EEL 6764 PRINCIPLES OF COMPUTER ARCHITECTURE** (3)
PR: EEL 5711 or CC. Study of the number systems and the algorithms used for digital arithmetic computation with emphasis in their implementation, speed and reliability considerations.
- EEL 6766 ADVANCED COMPUTER ARCHITECTURE** (3)
PR: EEL 6764 or CC. The macro-structure of computers is considered in this course, ranging from the orthodox von Neumann design to multiprocessors, stack processors, pipeline systems, and associative computers.
- EEL 6830 CODING THEORY I** (2)
PR: CC. Error-correcting codes, algebraic block codes, linear codes and feedback shift registers. BCH codes and decoding methods.
- EEL 6831 CODING THEORY II** (2)
PR: EEL 6830. Convolutional codes; threshold decoding and sequential decoding. Burst error codes. Arithmetic codes.
- EEL 6840 AUTOMATA THEORY I** (2)
PR: EEL 5760. Review of mathematical foundations, decomposition and interconnection of digital machines, measurement and control of finite-state sequential circuits, machine identification, regular expressions and finite-state machines.
- EEL 6841 AUTOMATA THEORY II** (2)
PR: EEL 6840. Vector spaces over finite fields, linear sequential circuits, pseudo-random sequences. Turing machines, recursive function; computability.
- EEL 6842 AUTOMATA THEORY III** (2)
PR: EEL 6841. Artificial languages, phase-structure grammars, operations on languages, decision problems, discrete value random processes, Markov processes, probabilistic sequential machines, nondeterministic sequential machines.
- EEL 6842 AUTOMATA THEORY II** (2)
PR: EEL 6841. Artificial languages, phase-structure grammars, operations on languages, decision problems, discrete value random processes, Markov processes, probabilistic sequential machines, nondeterministic sequential machines.
- ESI 6198 CASE STUDIES IN INDUSTRIAL COMPUTER SYSTEMS** (2)
PR: CC. A case study approach to the definition and implementation of industrial computer systems. The role of automation within the industrial concern. Design of systems in inventory, production control, and related areas. Directing the computer function and systems development.

ELECTRICAL ENGINEERING

UNDERGRADUATE COURSES

- 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** (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** (3,2)
PR: MAP 4302, PHY 3041, PHY 3041L. 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 4220, 4222 ELECTROMECHANICS I, II** (3,3)
PR: EGN 3375. Theory of electromechanical energy conversion. Characteristics and control of rotating electrical machines, transformers, electromagnets, loudspeakers, microphones, transducers.
- EEL 4300 COMMUNICATION CIRCUITS** (3)
PR: EEL 3302. Provides further study in electronic circuits. Includes oscillator, modulator, and detector analysis and design.
- EEL 4330 MICROELECTRONICS ENGINEERING** (3)
PR: EEL 3410, EEL 3100, EEL 3302, PHY 3123. Principles of microminiaturization of electrical circuits. Fabrication techniques, component realization, component isolation, parasitics.
- EEL 4411 See EEL 3410.**
- EEL 4511 COMMUNICATION ENGINEERING** (2)
PR: EEL 4300. System considerations of electronic circuits; radio propagation; antennas; transmitters and receivers.
- EEL 4511L COMMUNICATIONS LABORATORY** (1)
CR: EEL 4511. Experiments in amplitude modulation, frequency modulation, pulse communications, and data transmission.
- EEL 4656 LINEAR CONTROL SYSTEMS** (3)
PR: EEL 3302. 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 CC. 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)
PR: CC.
- ELR 3301L LABORATORY I** (1)
PR: ELR 3301L, EEL 3302.
- ELR 3302L LABORATORY 2** (1)
PR: EGN 3373
- ELR 4114 ELECTRICAL MEASUREMENTS** (2)
PR: EEL 3100. Techniques and principles of electronic measurement.
- EEL 4305L LABORATORY 3** (1)
PR: ELR 3302L, EEL 4300
- ELR 4306L LABORATORY 4** (1)
PR: ELR 3302L CR: EEL 4411

GRADUATE COURSES

- EEL 5250 POWER SYSTEMS ANALYSIS** (2)
PR: CC. Analysis techniques for AC power systems.
- EEL 5253 COMPUTER ANALYSIS OF POWER SYSTEMS** (2)
PR: CC. Review of Fortran programming, matrix algebra, network formulation, short circuit studies, simulation of algebraic equations, load flow studies, numerical solution of differential equations, transient stability studies. Strong emphasis on techniques adaptable to digital computer studies, programs will be written and run on the IBM 360/65.
- EEL 5367 PULSE CIRCUIT PRINCIPLES** (2)
PR: EEL 4102, EEL 4300. An introduction to the analysis and design of pulse and timing circuits with applications.

- EEL 5435 UHF PRINCIPLES** (2)
PR: EEL 4102, EEL 4300, EEL 4411. A study of tubes, devices, and circuits peculiar to systems which operate at ultra high and super high frequencies.
- EEL 5435L UHF LABORATORY** (1)
CR: EEL 5435
- EEL 5620 NONLINEAR CONTROL SYSTEMS** (2)
PR: EEL 4656. Principles of state-variables, phase-plane and describing functions.
- EEL 5711 DIGITAL COMPUTERS** (3)
PR: EEL 4705. Digital arithmetic; computer subsystems, arithmetic units; control units; memory units; general purpose computers.
- EEL 5711L DIGITAL LABORATORY** (1)
CR: EEL 5711
- EEL 5755 DIGITAL SIGNAL PROCESSING TECHNIQUES** (2)
PR: EEL 4102 or CC. Fourier transform of sampled signals, z-transform. Digital networks, difference equations, discrete convolution. Frequency response of digital networks. Design of digital filters (FIR and IIR). Quantization effects. Discrete Fourier transform.
- EEL 5760 DISCRETE STRUCTURES FOR DIGITAL SYSTEMS** (2)
PR: EEL 4705. Set algebra, basic algebraic structures in computers. Boolean algebra, propositional logic and graphs. Applications to computers.
- EEL 5820 IMAGE PROCESSING BY COMPUTERS** (2)
PR: EEL 4102 or CC. Two dimensional convolution and system functions. Fourier transform in two dimensions. Digitization of two dimensional signals, sampling theorems, bandlimited signals. Image processing by computers. Applications of image processing.
- EEL 5935, 5936, 5937 SPECIAL ELECTRICAL TOPICS I, II, III** (1-3 each)
PR: CC.
- EEL 6141, 6142, 6143 NETWORKS SYNTHESIS I, II, III** (2-2-2)
PR: CC. Network functions; physical realizability; two terminal network synthesis methods; frequency transformation; potential analogy; approximation problems; insertion-loss and transfer function synthesis.
- EEL 6150, 6151 ADVANCED CIRCUIT THEORY I, II** (2,2)
PR: CC. Network fundamentals; network characterization; frequency analysis; superposition integrals; signal-flow techniques; stability problems; real-and-imaginary relations.
- EEL 6152 NONLINEAR CIRCUITS** (2)
PR: CC. Analytical and topological approaches to nonlinear circuits; nonlinear resonance; relaxation oscillations.
- EEL 6168 CADA: MODELING & SOFTWARE** (2)
PR: EEL 4163. Coverage includes all facets of solid-state modeling pertaining to CADA applications. Discrete and macro modeling techniques are explored for a wide range of devices. Software methods for CADA applications are discussed from several vantage points. Methodology and treatment required for the large scale, general purpose programs are explored. The mathematical techniques used for the modern integration routines are examined, with tradeoffs discussed.
- EEL 6174 OPTIMUM FILTERING AND IDENTIFICATION** (2)
PR: CC or EEL 6631. Estimation theory and development of the Kalman-Wiener filter for continuous and discrete-time systems. System identification through deterministic and stochastic approaches. Application to control and communication systems.
- EEL 6261, 6262, 6263 ELECTRIC POWER SYSTEMS I, II, III** (2,2,2)
PR: CC. Steady-state and transient analysis of interconnected power systems; power circuit protection; transient characteristic of apparatus.
- EEL 6270 LIGHTNING AND SURGE PROTECTION** (2)
PR: CC. Methods of protection against overvoltage due to lightning. Ground wire shielding, systems and tower grounding, lightning arresters. Dynamic overvoltage, switching phenomena and system recovery voltages.
- EEL 6271 PROTECTIVE RELAYING OF POWER SYSTEMS** (2)
PR: EEL 5250, EEL 6261 or CC. Fundamentals of instrumentation. Design and operation of protective schemes for equipment in generation, transmission, and distribution circuits. Analysis of abnormal system conditions requiring relay operation.
- EEL 6332 ELECTRICAL PROPERTIES OF THIN FILMS** (2)
PR: EEL 4330 or equivalent and EEL 4411 or CC. Electrical properties of thin films as derived from Boltzmann's transport equation. The growth of thin films. The fabrication of electrical circuits with thin films. Lecture supplemented by laboratory experiments and demonstrations.
- EEL 6351, 6352, 6353 SOLID STATE ELECTRONICS I, II, III** (2,2,2)
PR: CC. Theory of operation and application of circuits and devices.
- EEL 6386, 6389 PRINCIPLES OF SEMICONDUCTOR DEVICE MODELING I, II** (2,2)
PR: EEL 4102, EEL 4411. A course sequence which emphasizes systematic methods for obtaining models which relate device physics to terminal behavior and which provide appropriate compromises between accuracy and simplicity.
- EEL 6387 NOISE THEORY** (2)
PR: CC. Electrical noise and signals through linear filters and electronic systems.
- EEL 6432 MICROWAVE COMPONENTS** (2)
PR: CC. A study of directional couplers, junctions, cavities and other passive microwave components including microwave integrated circuits.
- EEL 6433 MICROWAVE NETWORKS** (2)
PR: CC. Scattering and transfer representation of n-ports. Odd and even mode theory. Wave filters.
- EEL 6434 MICROWAVE GENERATION AND AMPLIFICATION** (2)
PR: CC. A study of electromagnetic wave generation and amplification. Magnetrons, klystrons, solid-state microwave oscillators and related devices.
- EEL 6482, 6483, 6484 ELECTROMAGNETIC FIELDS AND WAVES I, II, III** (2,2,2)
PR: CC. Electromagnetic theory from the engineering point of view, propagation and reflection of waves, guided waves, resonant cavities, antennas and radiation.
- EEL 6506 DATA TRANSMISSION** (2)
PR: EEL 6508. Quantization theory, binary coding systems ideal binary transmission, on-off keying, FSK, PSK, PCM applications.
- EEL 6507 DATA TRANSMISSION II** (2)
PR: EEL 6506. M-ary systems-MASK, MFSK, MPSK, orthogonal systems, multilevel and multistate coding, simplex coding, orthogonal and biorthogonal codes, polysignal systems, synchronization methods.
- EEL 6508 PULSE COMMUNICATIONS SYSTEMS** (2)
PR: CC. Sampling theory, pulse waveform generation and modulation. PAM, PWM, PPM, related multiplex systems, telemetry applications.
- EEL 6522 INFORMATION THEORY** (2)
PR: CC. Concepts of information, information channels, channel capacity, information sources and Shannon's fundamental theorem.
- EEL 6531, 6532, 6533 THEORY OF COMMUNICATION I, II, III** (2,2,2)
PR: CC. Physical basis and statistical representation of electrical noise; filtering, modulation, and de-modulation of signals corrupted by noise; correlation techniques and linear prediction; statistical estimation of signal parameter; optimum filters and receivers; ambiguity functions and inverse probability; quantitative measure of information sources, noise channels and channel capacity; an introduction to error-correcting codes.
- EEL 6613 MODERN CONTROL THEORY** (2)
PR: EEL 4656, EEL 5620, EEL 6631, EEL 6640 or CC. A study of modern control techniques including optimum and adaptive control.
- EEL 6631 DIGITAL CONTROL SYSTEMS** (2)
PR: EEL 4656. Sample-data and digital control processes.
- EEL 6640 RANDOM PROCESSES IN CONTROL SYSTEMS** (2)
PR: EEL 4656. Analysis and design of control systems subject to random inputs and disturbances.
- EEL 6756 SPECIAL ANALYSIS BY COMPUTERS** (2)
PR: CC. Introduction to time series analysis by computers. Discrete Fourier methods applied to time series, sample spectrum, cross spectrum, smoothing of spectral estimators, distribution properties. Application to physical, biological and environmental problems.
- EEL 6822 PATTERN RECOGNITION THEORY** (2)
PR: CC. Theory of pattern recognition. Parametric and non-parametric methods, training theorems, unsupervised learning. Biomedical and other engineering applications.
- EEL 6823 COMPUTER APPROACHES TO PATTERN RECOGNITION** (2)
PR: EEL 6822. Computer implementation of pattern recognition problems. Feature reduction methods. CLAFIC and SELFIC techniques. Sequential methods.

- EEL 6830 CODING THEORY I** (2)
PR: CC. Error-correcting codes, algebraic block codes, linear codes and feedback shift registers. BCH codes and decoding methods.
- EEL 6831 CODING THEORY II** (2)
PR: EEL 6830. Convolutional codes; threshold decoding and sequential decoding. Burst error codes. Arithmetic codes.
- EEL 6840 AUTOMATA THEORY I** (2)
PR: EEL 5760. Review of mathematical foundations, decomposition and interconnection of digital machines, measurement and control of finite-state sequential circuits, machine identification, regular expressions and finite-state machines.
- EEL 6841 AUTOMATA THEORY II** (2)
PR: EEL 6840. Vector spaces over finite fields, linear sequential circuits, pseudo-random sequences. Turning machines, recursive function computability.
- EEL 6842 AUTOMATA THEORY III** (2)
PR: EEL 6841. Artificial language, phase-structure grammars, operations on languages, decision problems, discrete value random processes. Markov processes, probabilistic sequential machines, non-deterministic sequential machines.
- EEL 6908 INDEPENDENT STUDY** (var.)
Independent study in which Students must have a contract with an instructor. Repeatable. (S/U only.)
- EEL 6932 ADVANCED ENGINEERING SEMINAR** (1-3)
PR: CC.
- EEL 6935 SELECTED ELECTRICAL TOPICS** (1-3)
PR: CC.
- EEL 6936 SPECIAL ELECTRICAL PROBLEMS** (1-3)
PR: CC.
- EEL 6971 THESIS: MASTER'S** (var.)
Repeatable. (S/U only.)
- EEL 7980 DISSERTATION: DOCTORAL** (var.)
PR: Must be admitted to Doctoral Candidacy. Repeatable. (S/U only.)
- ELR 6117 ELECTRICAL MEASUREMENTS** (2)
PR: CC. Advanced techniques and principles of electronic measurement.
- ELR 6118 MEASUREMENTS LABORATORY** (1)
CR: ELR 6117
- ELR 6910 DIRECTED RESEARCH** (var.)
PR: GR. Master's level. Repeatable. (S/U only.)
- ELR 6911 GRADUATE RESEARCH METHODS** (1-5)
Special course to be used primarily for the training of graduate research assistants. Variable credit. Limited to a cumulative total of 5 credits per student. (S/U only.)
- ELR 6940 GRADUATE INSTRUCTION METHODS** (1-5)
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of 5 credits per student. (S/U only.)
- ELR 7910 DIRECTED RESEARCH** (var.)
PR: GR. Ph.D. level. Repeatable. (S/U only.)

ENGINEERING TECHNOLOGY

UNDERGRADUATE COURSES

- ETG 4931 SPECIAL TOPICS IN TECHNOLOGY I** (1-5)
PR: CC.
- ETG 4932 SPECIAL TOPICS IN TECHNOLOGY II** (1-5)
PR: CC.
- ETG 4933 SPECIAL TOPICS IN TECHNOLOGY III** (1-5)
PR: CC.
- ETI 4600 INTRODUCTION TO INDUSTRIAL SYSTEMS** (3)
PR: ETK classification of CC. Introduction to organizational planning and control functions in industrial systems.
- ETI 4614 PRINCIPLES OF INDUSTRIAL OPERATIONS I** (3)
PR: ETK classification of 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.

GRADUATE COURSES

- ETE 5100 INTRODUCTION TO ELECTRONICS FOR SCIENTIST** (5)
Basic electronic devices and instruments, DC and AC circuits, diodes and power supplies, transistor, circuits, integrated circuits, laboratory instruments, transducers and special instruments. No credit toward graduate degree requirements.
- ETG 6931 SPECIAL TECHNICAL TOPICS I** (1-4)
PR: CC.
- ETG 6932 SPECIAL TECHNICAL TOPICS II** (1-4)
PR: CC.
- ETG 6933 SPECIAL TECHNICAL TOPICS III** (1-4)
PR: CC.

INDUSTRIAL AND MANAGEMENT SYSTEMS

UNDERGRADUATE COURSES

- EIN 4214 SAFETY ENGINEERING** (3)
Industrial safety practices. Application of hazard reduction or elimination techniques. Achievement of safety and health goals. OSHA, NIOSH. Design of loss control program.
- EIN 4251C INDUSTRIAL AUTOMATION** (3)
PR: EIN 4304L, EGN 3613. Introduction to the practices and concepts of automation as applied to material handling, inventory storage, material transfer, industrial processes and quality control. Economic justification of automated activities.
- EIN 4304C INTRODUCTION TO INDUSTRIAL ENGINEERING & INDUSTRIAL PROCESSES** (3)
History of industrial engineering. Introduction to basic industrial processes and controls. Students research specific industries and visit local industrial plants.
- EIN 4312L PRODUCTION DESIGN I** (3)
PR: EIN 4304C. Operation analysis and workplace design, work measurement, standard data, ergonomics, and labor relations.
- EIN 4313L PRODUCTION DESIGN II** (3)
PR: EIN 4312L. Predetermined time systems, job analysis and evaluation, wage administration, motivational theories, and design and application of wage incentive plans.
- EIN 4334 PRODUCTION CONTROL I** (3)
PR: EGN 3443 PR: ESI 4314. Activity forecasting models and control. Design and use of inventory control models, both deterministic and probabilistic. Analysis of resource requirements.
- EIN 4335 PRODUCTION CONTROL II** (3)
PR: EIN 4334. Continuation of the material in EIN 4334. Facilities loading and scheduling models. Principles of dispatching and process reporting. The concepts of material requirements planning. Design of production and inventory control systems.
- EIN 4352 ENGINEERING ECONOMY II** (2)
PR: EGN 3613 or equivalent. Analysis of economic limitations on engineering projects. Income tax considerations, replacement models, MAPI, and obsolescence.
- EIN 4364L PLANT FACILITIES DESIGN** (3)
PR: EIN 4313L. Design and modification of industrial production and material handling facilities. Basic analysis techniques, use of computer programs, automated warehousing.
- ESI 3211 INDUSTRIAL STATISTICS** (3)
PR: ETK classification. Industrial applications of probability, testing of hypotheses, regression techniques and analysis of variance. (No credit for engineering majors.)
- ESI 4221 STATISTICAL QUALITY CONTROL** (3)
PR: EGN 3443. Application of statistical techniques to the control of industrial processes. Control charts and acceptance procedures.
- ESI 4244 DESIGN OF EXPERIMENTS I** (3)
PR: EGN 3443. Development of the basic statistical experimental designs applicable to engineering analyses. Analysis of variance and regression.

ESI 4314 OPERATIONS RESEARCH I

(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 4315 OPERATIONS RESEARCH II

(3)

PR: EGN 3443, ESI 4314. 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 4521 COMPUTER SIMULATION

(3)

PR: EGN 2210, EGN 3443. Use of the GPSS language. Design of simulation experiments. Introduction to computer simulation of real world systems. Analysis and evaluation of simulation model output. Introduction to the Simscript and SLAM 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 4312, ESI 4314, EGN 3443. 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.

GRADUATE COURSES**EIN 5101 ARBITRATION OF INDUSTRIAL ENGINEERING DISPUTES**

(3)

Case studies in the arbitration of technical disputes involving job evaluation and classification, labor standards, wage incentives, crew size, etc.

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 HUMAN FACTORS

(3)

PR: CC. A study of the human physiological limitations encountered in the design, analysis and evaluation of man-machine systems.

EIN 5301 INDUSTRIAL ENGINEERING CONCEPTS

(3)

PR: CC. Survey of industrial and management engineering methodology. Work measurement, methods, production and inventory control, and facility design.

EIN 5345 INVENTORY CONTROL

(3)

PR: EIN 4335 or equivalent. Properties of inventory systems and fundamentals of deterministic and probabilistic inventory models. Principles and concepts of material requirements planning.

EIN 5353 ADVANCED ENGINEERING VALUATION

(3)

PR: EIN 4352 or equivalent. Statistical models for analyzing engineering alternatives from an economic viewpoint. The use of advanced engineering economy concepts in solving industrial problems.

EIN 5381 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 5386 PROBLEMS IN ENGINEERING MANAGEMENT

(3)

A study of problems encountered by managers in the planning, organizing, allocating of resources, directing, and controlling technical activities.

EIN 5389 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.

EIN 6247 MAN/MACHINE SYSTEMS

(3)

PR: EIN 5245. Application of human factors in the design and operation of man/machine systems. Analysis of the use of microprocessors and computer controlled devices in man/machine systems.

EIN 6336 PRODUCTION CONTROL SYSTEMS

(3)

PR: CC. Forecasting models, development of production plans, loading and scheduling models and basic inventory models. Use of MRP. Design and evaluation of production control systems.

EIN 6933 ADVANCED ENGINEERING SEMINAR

(1-3)

PR: CC.

EIN 6934, 6935, 6936 SPECIAL INDUSTRIAL TOPICS I, II, III

(1-3 each)

PR: CC.

EIN 6971 THESIS: MASTER'S

(var.)

Repeatable. (S/U only.)

ESI 5216 ENGINEERING STATISTICS II

(3)

PR: EGN 3443 or Equivalent. Application of non-parametric statistics, sequential analysis, orthogonal polynomials and other advanced statistical techniques to solving engineering problems.

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 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.

ESI 6213 THEORY OF INDUSTRIAL STATISTICS

(3)

PR: ESI 5219 or equivalent. Study of the theory behind the statistical techniques applied to the solving of engineering problems.

ESI 6223 ECONOMIC QUALITY CONTROL

(3)

PR: EIN 5353, ESI 4221. The design of acceptance sampling systems and control charts for the economic point of view. Consideration of the effects of inspection error on sampling plan and control chart designs.

ESI 6227 STATISTICAL ASSURANCE PLANS

(3)

ESI 4221 or equivalent. Advanced techniques in quality control systems. Includes study of articles in current journals.

ESI 6238 THEORY OF RELIABILITY

(3)

PR: EGN 3443 or equivalent. Topics in statistical methodology which have applications in reliability. Discrete and continuous distribution models, reliability estimation, reliability structure and growth models, and statistical design for reliability.

ESI 6247 STATISTICAL DESIGN MODELS

(3)

PR: ESI 5219 or equivalent. Design of experimental mathematical models. Application of advanced analysis of variance techniques as applied to industrial problems.

ESI 6291 SPECIAL TOPICS IN STATISTICS

(3)

PR: CC. Special topics in statistics related to research in engineering.

ESI 6336 QUEUEING THEORY

(3)

PR: ESI 4315. Introduction to queueing models. Poisson queues, non-Poisson queues, decision models, transient analysis and special queueing topics.

ESI 6341 DYNAMIC PROBABILISTIC SYSTEMS

(3)

PR: ESI 4215. Theory and application of stochastic engineering problems. Emphasis on dynamic systems involving Markov processes, recurrent processes, normal processes, and counting processes.

ESI 6405 NONLINEAR AND DYNAMIC PROGRAMMING

(3)

PR: ESI 4315 or equivalent. Optimization of nonlinear systems. General theory and existence theorems. Techniques of solution including quadratic, dynamic and geometric programming for discrete systems, continuous systems and variational methods.

ESI 6414 LINEAR PROGRAMMING

(3)

PR: ESI 4315 or equivalent. The Simplex method, degeneracy, sensitivity analysis, duality theory, network flow theory. Applications to industrial problems.

- ESI 6491 MULTIVARIABLE OPTIMIZATION** (3)
PR: ESI 6405, ESI 5216 or equivalent. Direct method for system optimization using numerical and theoretical methods. Penalty function and vector methods. Deterministic and stochastic problems. Response surface methods.
- ESI 6550 INDUSTRIAL SYSTEMS DESIGN** (3)
PR: ESI 4521, ESI 4315 or equivalent. Design of integrated systems using statistical and operations research models. Digital simulation using several different digital simulation systems.
- ESI 6552 EVALUATION OF SYSTEM PERFORMANCE** (3)
PR: ESI 4215, ESI 4315 or equivalent. Applications of probability and random processes to the design and evaluation of physical systems from the viewpoint of satisfying prescribed specifications.
- ESI 6906 INDEPENDENT STUDY** (var.)
Independent study in which students must have a contract with an instructor. Repeatable. (S/U only.)
- ESI 6911 DIRECTED RESEARCH** (var.)
PR: GR. Master's level. Repeatable. (S/U only.)
- ESI 6991 GRADUATE RESEARCH METHODS** (1-5)
Special course to be used primarily for the training of graduate research assistants. Variable credit, repeatable. Limited to a cumulative total of five credits per student. (S/U only.)
- ESI 6992 GRADUATE INSTRUCTION METHODS** (1-5)
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of five credits per student. (S/U only.)
- ESI 7911 DIRECTED RESEARCH** (var.)
PR: GR. Ph.D. level. Repeatable. (S/U only.)
- ESI 7980 DISSERTATION: DOCTORAL** (var.)
PR: Must be admitted to Doctoral Candidacy. Repeatable. (S/U only.)

COMPUTER SERVICE COURSES

(No credit for Engineering Majors)

UNDERGRADUATE COURSES

- CDA 3101 SC INTRODUCTION TO COMPUTERS II** (3)
PR: COC 3300. Number systems. Internal representation of data and instructions. Algorithms and flowcharting. Introduction to machine and assembler language and higher level language.
- CDA 3102 SC INTRODUCTION TO COMPUTERS III** (3)
PR: CDA 3101. Continuation of CDA 3101. Introduction to large computer systems assembler language and applications.
- CDA 4152 SC MINI-COMPUTER APPLICATIONS** (3)
PR: COP 4530. Study of mini-computer system components, I-O devices, theory of computer operation.

- COC 3300 SC INTRODUCTION TO COMPUTERS AND PROGRAMMING IN BASIC** (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.
- COP 3110 SC FORTRAN PROGRAMMING** (3)
PR: COC 3300. 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: COC 3300. 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 3110. Use of PL/I language features in programming for business and scientific applications. File and string manipulation, asynchronous and stream-oriented transmission.
- COP 3155 SC APL PROGRAMMING** (3)
PR: COC 3300. The use of the APL language is an interactive mode to solve business and scientific programs.
- COP 3180 SC PASCAL PROGRAMMING** (3)
PR: COC 3300. Structured programming implemented with the PASCAL language. Emphasis on program structure and data manipulation.
- COP 3300 SC GPSS SIMULATION** (3)
PR: COP 3110. The development and execution of discrete event simulation models of real world systems using the GPSS language.
- COP 3310 SC SIMSCRIPT SIMULATION** (3)
PR: COP 3300. The use of the Simscript language in discrete event simulation. Development of simulation models of real world systems.
- COP 4204 SC COMPUTER APPLICATIONS** (3)
PR: COP 3110. Applications of various high level languages to current scientific and engineering problems.
- COP 4530 SC DATA REPRESENTATION AND MANIPULATION** (3)
PR: CDA 3101. Study of the internal representations of data, data storage and retrieval, and data manipulations.

GRADUATE COURSES

- CAP 5812 SC COMPUTERS FOR RESEARCH I** (3)
PR: Graduate student status. The use of the FORTRAN language in solving research problems.
- CAP 6813 SC COMPUTERS FOR RESEARCH II** (3)
PR: CAP 5812 or equivalent. Continuation of the material covered in CAP 5812. Use of computer libraries, plotting equipment and statistical packages.

COLLEGE OF FINE ARTS

ART

Chairperson: G. Pappas; *Professors:* O. W. Bailey, H. W. Covington, E. L. Cox, A. B. Eaker, C. J. Fager, E. Fry, R. W. Gelinas, J. M. Kronsoble, M. L. Larsen, B. L. Marsh, G. Pappas, D. J. Saff; *Associate Professor:* L. S. Dietrich, W. M. Hindle, C. W. Houk, C. P. Lyman, M. A. Miller, B. J. Nickels, T. F. Wujcik, D. Yager; *Assistant Professors:* T. McLaughlin, P. Melaragno, P. Schroth, D. R. Wright; *Instructor:* D. Pascoe

UNDERGRADUATE COURSES

- ARH 3000 INTRODUCTION TO ART** (4)
An expanded introductory treatment of basic concepts. For art majors and non-majors.
- 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 4743 INTRODUCTION TO THE PERSONAL

FILM (4)

PR: ART 3630C. Comparison of philosophical and technical distinctions between the personal film and theatrical or commercial releases.

ARH 4746 ANATOMY OF THE COLLABORATIVE

FILM (4)

PR: ART 4631C. Analysis of aesthetic and other selected aspects of film produced through collaborative efforts. May be repeated.

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 (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 discipline and changing nature of Art History from Vasari to the present.

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 three-dimensional organization of space and mass.

ART 3110C CERAMICS I (4)

PR: Visual Concepts II and Introduction to Art. Intermediate problems in ceramics with emphasis on the exploration of methods and media and the development of individual concepts.

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 the 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 3600C 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.

ART 3630C 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.

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 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 4601C PHOTOGRAPHY II (4)

PR: ART 3600C. Continued problems in photography. May be repeated.

ART 4631C CINEMATOGRAPHY II (4)

PR: ART 3630C. Continued problems in cinematography. May be repeated.

ART 4633C SOUND TECHNIQUES (4)

PR: ART 3630C. The recording and editing of sound for film. Collaboration with other departments, particularly Music and Theatre, is encouraged. To be taken concurrently with ART 4631C or ART 5642C whenever possible.

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.

GRADUATE COURSES

Admission to all 5000 level studio courses by Consent of Instructor.

ARH 6055 ART HISTORY (4)

PR: CI. May be repeated.

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 5604C PHOTOGRAPHY (4)

PR: CI. Advanced work in photography and related media leading to development of personal/expressive statements. May be repeated.

ART 5642C CINEMATOGRAPHY (4)

PR: ART 4631C. Advanced studio work using black and white, color and sound as technical and aesthetic factors in visual, artistic productions. May be repeated.

ART 5730C SCULPTURE (4)

PR: ART 4702C. Advanced problems in the various techniques of sculpture. Emphasis on individual creative expression. May be repeated.

ART 5910 RESEARCH (1-4)

PR: CC. May be repeated.

ART 5936 STUDIO TECHNIQUES: SELECTED PROJECTS (2)

PR: Visual Concepts I, II, and Introduction to Art, the topic-technique-related 3000-4000 level studio sequence and CI. Concentration in specialized technical data and process. May be repeated for credit for different topics only.

ART 6126C CERAMICS (4)

PR: CI. May be repeated.

ART 6341C DRAWING (4)

PR: CI. May be repeated.

ART 6423C LITHOGRAPHY (4)

PR: CI. May be repeated.

- ART 6473C INTAGLIO** (4)
PR: CI. May be repeated.
- ART 6580C PAINTING** (4)
PR: CI. May be repeated.
- ART 6620C PHOTOGRAPHY** (4)
PR: CI. May be repeated.
- ART 6645C CINEMATOGRAPHY** (4)
PR: CI. May be repeated.
- ART 6731C SCULPTURE** (4)
PR: CI. May be repeated.
- ART 6907 INDEPENDENT STUDY** (var.)
Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)
- ART 6911 DIRECTED RESEARCH** (var.)
PR: GR. Master's level. Repeatable. (S/U only.)
- ART 6936 GRADUATE SEMINAR** (2)
PR: CI. Advanced course in theoretical and conceptual foundations of the visual arts. The specific structure and content to be determined by the instructor. Must be repeated for a minimum of four hours.
- ART 6937 GRADUATE INSTRUCTION METHODS** (1-4)
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of four credits per student. (S/U only.)
- ART 6940 SELECTED TOPICS IN ART** (1-4)
PR: Graduate Standing and CI. Variable credit depending upon the scope and magnitude of the work agreed to by the student and the responsible member of the faculty. May be repeated.
- ART 6956 GRADUATE STUDIO THESIS DOCUMENTATION** (2)
PR: CI. An advanced seminar focused on the problems of documenting in verbal form the development of a body of work in the visual arts.
- ART 6971 THESIS: MASTER'S** (var.)
Repeatable. (S/U only.)

DANCE

Chairperson: L. D. Berger; *Professors:* W. G. Hug, L. D. Berger; *Associate Professor:* C. Robinson; *Assistant Professors:* J. Brody, F. Fairrie, H. Parrish; *Lecturer:* L. A. Cunningham; *Affiliate:* R. Diaz

UNDERGRADUATE COURSES

- DAA 2100 FUNDAMENTALS OF MODERN DANCE I** (2)
To acquaint beginning modern dance students with fundamentals of dance vocabulary, movement, rhythm and alignment.
- DAA 2160 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. May be repeated. (Ballet requirement)
- DAA 2200 FUNDAMENTALS OF BALLET I** (2)
To acquaint beginning ballet dance students with fundamentals of vocabulary, movement, rhythm and alignment.
- DAA 2201 BALLET II** (3)
PR: Admission by audition. Positions and barre exercises. Stress on correct alignment of the body and the applicatino of simple step combinations in centre work. The use of ballet vocabulary (French tgerms). Material is covered almost totally as practical work in class with a few outside projects. Concert and performance attendance required. May be repeated. (Modern requirement)
- DAA 3161 MODERN DANCE III** (3)
PR: Admission by audition. Continuation of DAA 2160. Further emphasis on style and phrasing. Work in projecting mood and quality by dancing and rehearsing in more advanced student choreography, leading to performance. Rehearsal hours to be arranged. May be repeated.
- DAA 3202 BALLET III** (3)
PR: Admission by audition. Intensification of barre exercises for the development of strength and form. Most of the ballet steps are introduced. 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 introduces fundamental exercises for the

- development of pointe technique. Material covered may also be pas de deux, character, and variations. Must be repeated for a total of 4 hours by majors in ballet concentration. May be repeated.
- DAA 3502 JAZZ DANCE** (2)
PR: DAA 3161 or DAA 3202 or CI. A technique class with an emphasis on highly stylized, percussive movement on a strong rhythmic base. Required is the performance of a short dance sequence encompassing these skills. 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, culminating in a solo. May be repeated.
- DAA 4162 MODERN DANCE IV** (4)
PR: Admission by audition. Intensive work on the growth of personal performance styles. Equal emphasis will be given to training the body in the development of technical excellence. May be repeated.
- DAA 4203 BALLET IV** (4)
PR: Admission by audition. 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. A few outside projects, concerts, and performances is 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. The best dances will be performed and fully produced under supervision of student choreographers. Lec-lab., reading. 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.
- DAN 3100 INTRODUCTION TO DANCE** (2)
For non-dance majors, a study of the art of dance. Lecture and activities including Modern, Ballet, Jazz, Ethnic, and Tap. DAN 3100 may be used for University General Distribution Requirement-by the non-major; and may be used to satisfy part of the 6 hour in-College Requirement for Fine Arts Majors in Art, Music and Theatre.
- DAN 3590 PRACTICUM IN DANCE PRODUCTION I** (1-4)
A practicum in mounting dance concerts with shop work and backsatge participation. Intended for students wrking in costuming, set preparation, light presentation, stage management and production crewing. Dance majors must have at least 2 credits for graduation accumulated in two different semesters.
- DAN 3610 MUSIC FOR DANCE** (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 3611 MUSIC FOR DANCE II** (2)
PR: DAN 3610 or CI. Elements of music within historical context. Continued problems in rhythmic materials.
- DAN 3710 REPERTORY** (1)
The development and performance of solo and/or group dances. Open to all University students by audition. May be repeated.
- DAN 4120 SURVEY HISTORY OF DANCE** (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 4151 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 of CC. To aid majors to understand, appraise and perfect their own art and technique through critical and aesthetic judgments of their colleagues.
- 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: CC. Independent studies in the various areas of Dance. Course of study and credits must be assigned prior to registration. May be repeated.

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

Chairperson: L. Cullison; *Professors:* J. Abram, E. S. Anderson, V. A. Bridges, L. Cullison, L. A. Golding, V. S. Jennings, W. D. Owen, E. Preodor, M. N. Rearick, A. J. Watkins; *Associate Professors:* A. Dickey, R. O. Froelich, A. L. Hawkins, H. K. Jones, D. W. Kneeburg, J. E. Lewis, R. McCormick, J. M. Reynolds, J. L. Smith, N. S. Stevens, R. J. Summer, A. N. Woodbury; *Assistant Professors:* B. G. Albers, K. C. Holm, J. K. Khorsandian, W. E. Ludwig, C. R. Owen, J. O. Robison, A. V. Summer; *Instructors:* A. Y. Monroe; *Adjunct Instructors:* C. D. Moses, M. B. Switzer.

UNDERGRADUATE COURSES**MUC 2202 COMPOSITION**

(3)

PR: MUT 1113 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 3203 COMPOSITION

(3)

PR: Necessary competency at MUC 2202 level determined by faculty jury. Private instruction in original composition. Required of composition majors. May be repeated for three semesters.

MUC 3401, 3402 ELECTRONIC MUSIC—ANALOG**SYNTHESIS**

(3,3)

PR: MUC 2301 and CI. Composition for tape medium with analog synthesizers; use of sound recording studio; repertory or analog music synthesis; technical basis of analog systems design and construction.

MUC 3441, 3442 ELECTRONIC MUSIC—DIGITAL**SYNTHESIS**

(3,3)

PR: MUC 2301 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 4204 COMPOSITION

(3)

PR: Necessary competency at MUC 3203 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 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

(2)

PR: CI. Experimental sound sources and ensemble groupings; creating 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 4201 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 4301 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 HISTORY OF POPULAR MUSIC

(2)

Popular music in the U.S. from 1820 to the 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 3211, 3212 MUSIC HISTORY

(3,3)

PR: CI. Required of music majors; a survey of the historical development of musical styles and of the music representative of those styles.

MUH 4803 HISTORY OF JAZZ

(2)

PR: CI. A study of the evolution of jazz, 1890 to present. Open to majors and non-majors.

MUL 2111, 2112 INTRODUCTION TO MUSIC**LITERATURE**

(2,2)

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

(2,2)

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 3100 UNIVERSITY BAND

(1)

MUN 3140 WIND ENSEMBLE

(1)

MUN 3210 UNIVERSITY ORCHESTRA

(1)

MUN 3310 UNIVERSITY SINGERS

(1)

MUN 3380 UNIVERSITY-COMMUNITY CHORUS

(1)

MUN 3451 PIANO ENSEMBLE

(1)

MUN 3501 OPERA WORKSHOP

(1)

MUN 3710 JAZZ LABORATORY BAND

(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 3340 CHAMBER SINGERS

(1)

MUN 3411 STRING QUARTET

(1)

MUN 3412 FLUTE CHOIR

(1)

MUN 3423 CLARINET CHOIR

(1)

MUN 3426 WOODWIND QUINTET

(1)

MUN 3430 BRASS CHOIR

(1)

MUN 3432 HORN QUARTET

(1)

MUN 3436 BRASS QUINTET

(1)

MUN 3440 PERCUSSION ENSEMBLE

(1)

MUN 3441 MARIMBA ENSEMBLE

(1)

MUN 3470 COLLEGIUM MUSICUM

(1)

MUS 4900 DIRECTED READING

(1-3)

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.

MUS 4905 DIRECTED STUDY

(1-4)

PR: CC. Independent studies in the various areas of music; course of study and credits must be assigned prior to registration; may be repeated.

MUS 4930 SELECTED TOPICS IN MUSIC

(1-4)

PR: CI and CC. The content of the course will be governed by student demand and instructor interest. May be repeated for credit for different topics only.

MUS 4931 SELECTED STUDIO TOPICS IN MUSIC (1-4)

PR: CI. The content of the study will be governed by individual student demand and instructor interest with an emphasis on individual instruction.

MUS 4935 MUSIC SENIOR SEMINAR (2)

PR: CI. To aid majors to understand, appraise and perfect their own art through critical and aesthetic judgments of their colleagues. (S/U only.)

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 of 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 1243. 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 THEORY AND ARRANGING I (2)

PR: MUT 1113 and/or CI. A study of jazz harmony, scales, and melodic practices, leading to arranging for jazz ensembles.

MUT 3354 JAZZ THEORY AND ARRANGING II (2)

PR: MUT 3353 and/or CI. A continuation of Jazz Theory and Arranging I with emphasis on arranging for jazz ensembles.

MUT 3641 JAZZ IMPROVISATION I (1)

PR: MUT 1112 and/or CI. A study of jazz improvisational techniques. May be repeated for credit.

MUT 3642 JAZZ IMPROVISATION II (1)

PR: MUT 1112 & CI. A studio course of study designed to advance the student's improvisational techniques; emphasis on individual performance. May be repeated for credit.

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 (2)

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 (2)

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 4431 TWENTIETH CENTURY PRACTICE (2)

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.

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 non-music 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)

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 MUSIC MAJORS, LEVEL I (2)

MVK 1121 MUSIC MAJORS, LEVEL II (2)

MVK 2111 MUSIC MAJORS, LEVEL III (2)

MVK 2121 MUSIC MAJORS, LEVEL IV (2)

MVK 3111 MUSIC MAJORS, LEVEL V (2)

MVK 1811 NON-MUSIC MAJORS, LEVEL I (2)

MVK 1821 NON-MUSIC MAJORS, LEVEL II (2)

MVK 2811 NON-MUSIC MAJORS, LEVEL III (2)

MVK 2821 NON-MUSIC MAJORS, LEVEL IV (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 APPLIED TRUMPET (3)

MVB 1412 APPLIED FRENCH HORN (3)

MVB 1413 APPLIED TROMBONE (3)

MVB 1414 APPLIED BARITONE (3)

MVB 1415 APPLIED TUBA (3)

MVK 1411 APPLIED PIANO (3)

MVP 1411 APPLIED PERCUSSION (3)

MVS 1411 APPLIED VIOLIN (3)

MVS 1412 APPLIED VIOLA (3)

MVS 1413 APPLIED VIOLONCELLO (3)

MVS 1414 APPLIED DOUBLE BASS (3)

MVS 1415 APPLIED HARP (3)

MVS 1416 APPLIED CLASSICAL GUITAR (3)

MVV 1411 APPLIED VOICE (3)

MVW 1411 APPLIED FLUTE (3)

MVW 1412 APPLIED OBOE (3)

MVW 1413 APPLIED CLARINET (3)

MVW 1414 APPLIED BASSOON (3)

MVW 1415 APPLIED SAXOPHONE (3)

APPLIED MUSIC COURSES (below)

PR: Necessary competency at freshman 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 2421 APPLIED TRUMPET (3)

MVB 2422 APPLIED FRENCH HORN (3)

MVB 2423 APPLIED TROMBONE (3)

KVB 2424 APPLIED BARITONE (3)

MVB 2425 APPLIED TUBA (3)

MVK 2421 APPLIED PIANO (3)

MVP 2421 APPLIED PERCUSSION (3)

MVS 2421 APPLIED VIOLIN (3)

MVS 2422 APPLIED VIOLA (3)

MVS 2423 APPLIED VIOLONCELLO (3)

MVS 2424 APPLIED DOUBLE BASS (3)

MVS 2425 APPLIED HARP (3)

MVS 2426 APPLIED CLASSICAL GUITAR (3)

MVV 2421 APPLIED VOICE (3)

MVW 2421 APPLIED FLUTE (3)

MVW 2422 APPLIED FLUTE (3)

MVW 2422 APPLIED OBOE (3)

MVW 2423 APPLIED CLARINET (3)

MVW 2424 APPLIED BASSOON (3)

MVW 2425 APPLIED SAXOPHONE (3)

APPLIED MUSIC COURSES (below)

PR: Necessary competency at sophomore 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 APPLIED TRUMPET	(3)
MVB 3432 APPLIED FRENCH HORN	(3)
MVB 3433 APPLIED TROMBONE	(3)
MVB 3434 APPLIED BARITONE	(3)
MVB 3435 APPLIED TUBA	(3)
MVK 3431 APPLIED PIANO	(3)
MVP 3431 APPLIED PERCUSSION	(3)
MVS 3431 APPLIED VIOLIN	(3)
MVS 3432 APPLIED VIOLA	(3)
MVS 3433 APPLIED VIOLONCELLO	(3)
MVS 3434 APPLIED DOUBLE BASS	(3)
MVS 3435 APPLIED HARP	(3)
MVV 3431 APPLIED VOICE	(3)
MVW 3431 APPLIED FLUTE	(3)
MVW 3432 APPLIED OBOE	(3)
MVW 3433 APPLIED CLARINET	(3)
MVW 3434 APPLIED BASSOON	(3)
MVW 3435 APPLIED SAXOPHONE	(3)
MVS 3436 APPLIED CLASSICAL GUITAR	(3)

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. Must be repeated for credit for minimum of 6 hours for majors.

MVB 4441 APPLIED TRUMPET	(3)
MVB 4442 APPLIED FRENCH HORN	(3)
MVB 4443 APPLIED TROMBONE	(3)
MVB 4444 APPLIED BARITONE	(3)
MVB 4445 APPLIED TUBA	(3)
MVP 4441 APPLIED PIANO	(3)
MVS 4441 APPLIED PERCUSSION	(3)
MVS 4441 APPLIED VIOLIN	(3)
MVS 4442 APPLIED VIOLA	(3)
MVS 4443 APPLIED VIOLONCELLO	(3)
MVS 4444 APPLIED DOUBLE BASS	(3)
MVS 4445 APPLIED HARP	(3)
MVS 4446 APPLIED CLASSICAL GUITAR	(3)
MVV 4441 APPLIED VOICE	(3)
MVW 4441 APPLIED FLUTE	(3)
MVW 4442 APPLIED OBOE	(3)
MVW 4443 APPLIED CLARINET	(3)
MVW 4444 APPLIED BASSOON	(3)
MVW 4445 APPLIED SAXOPHONE	(3)

MUSIC STUDIO PEDAGOGY COURSES (below)

PR: CI. May be elected by undergraduate music majors; emphasis on the business management of the music studio, the musical responsibilities of the studio teacher, the techniques of private instruction. May be repeated for credit for a maximum of 4 hours for the same section.

MVB 4640 BRASS	(2)
MVK 4640 CLASS PIANO	(2)
MVK 4641 PIANO	(2)
MVS 4640 STRINGS	(2)
MVV 4641 VOICE	(2)
MVW 4640 WINDS AND PERCUSSION	(2)

GRADUATE COURSES

MUC 6251 COMPOSITION (4)

PR: CI. Private instruction in original composition. Required of composition majors. May be repeated for three semesters.

MUC 6444, 6445 ELECTRONIC MUSIC/ANALOG/DIGITAL SYSTEMS RESEARCH (3,3)

PR: CI. State-of-the-art compositional and performance applications; new concepts of electronic music synthesis; documentation and critical analysis of new repertory.

MUG 6256, 6257, 6258 CHORAL LITERATURE AND CONDUCTING (4,4,4)

PR: CI. Combination of seminar, classroom and laboratory types of experience designed to provide depth in stylistic study of choral music literature and performance.

MUL 6375 TWENTIETH CENTURY MUSIC LITERATURE (2)

PR: CI. A study of the literature, compositional techniques and music philosophies of the major 20th century composers from Debussy to the present.

MUL 6410, 6411 KEYBOARD REPERTORY (2,2)

PR: CI. A study of style, history and performance practice in keyboard repertory including masterworks of all periods.

MUL 6505 SYMPHONIC LITERATURE (2)

PR: CI. A chronological study of the development of orchestral music; analysis and study of major works from a stylistic and biographical perspective.

MUL 6565 CHAMBER MUSIC LITERATURE (2)

PR: CI. A survey and stylistic analysis of chamber music repertory 1750 through the present day; emphasis on aural recognition of representative works.

MUL 6624, 6625 SONG LITERATURE (2,2)

PR: CI. Solo song literature from the 17th century through the contemporary with emphasis on German lieder, French songs and contemporary English and American songs special emphasis on performance.

MUL 6663 OPERA LITERATURE (2)

PR: CI. A chronological study of the development of opera from 1600 to the present; emphasis on the technical, stylistic, and performance aspects of opera.

MUL 6687 SOLO VOCAL LITERATURE IN ORATORIO (2)

PR: CI. A survey of literature for the solo voice in cantatas and orchestra music.

MAJOR ENSEMBLE PERFORMANCE COURSES (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 6100 UNIVERSITY BAND (1)

MUN 6140 WIND ENSEMBLE (1)

MUN 6210 UNIVERSITY ORCHESTRA (1)

MUN 6310 UNIVERSITY SINGERS (1)

MUN 6380 UNIVERSITY-COMMUNITY CHORUS (1)

MUN 6451 PIANO ENSEMBLE (1)

MUN 6501 OPERA WORKSHOP (1)

MUN 6710 JAZZ LABORATORY BAND (1)

CHAMBER MUSIC ENSEMBLES COURSES (below)

PR: CI. Open to all university graduate students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass or percussion instruments, and piano; may be repeated for credit.

MUN 6340 CHAMBER SINGERS (1)

MUN 6411 STRING QUARTET (1)

MUN 6421 FLUTE CHOIR (1)

MUN 6423 CLARINET CHOIR (1)

MUN 6426 WOODWIND QUINTET (1)

MUN 6430 BRASS CHOIR (1)

MUN 6432 HORN QUARTET (1)

MUN 6436 BRASS QUINTET (1)

MUN 6440 PERCUSSION ENSEMBLE (1)

MUN 6441 MARIMBA ENSEMBLE (1)

MUN 6470 COLLEGIUM MUSICUM (1)

MUN 6490 NEW MUSIC ENSEMBLE (1)

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 5924 BAND WORKSHOP (1-2)

MUS 5925 CHAMBER MUSIC WORKSHOP (1-2)

MUS 5926 CHORUS WORKSHOP (1-2)

MUS 5927 ORCHESTRA WORKSHOP (1-2)

MUS 5928 PIANO WORKSHOP (1-2)

MUS 5929 STRING WORKSHOP (1-2)

MUS 6793 TECHNIQUES OF RESEARCH IN MUSIC (2)

PR: CC. A study of the methods of research and professional

bibliography and with an individual, formal project as a terminal requirement.

MUS 6906 INDEPENDENT STUDY (var.)

Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

MUS 6910 DIRECTED RESEARCH (var.)

PR: GR. Master's level. Repeatable. (S/U only.)

MUS 6971 THESIS: MASTER'S (var.)

Repeatable. (S/U only.)

MUS 6976 GRADUATE RECITAL (2)

PR: CC.

MUS 6994 GRADUATE INSTRUCTION METHODS (1-4)

Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of 4 credits per student. (S/U only.)

MUS 6995 GRADUATE RESEARCH METHODS (1-4)

Special course to be used primarily for the training of graduate research assistants. Variable credit, repeatable. Limited to a cumulative total of 4 credits per students. (S/U only.)

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 degree.

MUT 6535, 6547 CRITICAL ANALYSIS OF MUSIC REPERTORY (2,2)

PR: CI. Required of music theory majors; study of the development of musical styles in western civilization from Antiquity to the present, includes analysis and performance of representatives works.

MUT 6751, 6752 TEACHING OF MUSIC THEORY (2,2)

PR: CI. Comparative study of teaching techniques, procedures, and materials used in teaching the individual student in performance.

APPLIED MUSIC COURSES (below)

PR: Necessary competency determined by faculty jury audition. Required of all applied music majors. Private and class instruction.

MVB 6251 APPLIED TRUMPET, SECONDARY (2)

MVB 6252 APPLIED FRENCH HORN, SECONDARY (2)

MVB 6253 APPLIED TROMBONE, SECONDARY (2)

MVB 6254 APPLIED BARITONE, SECONDARY (2)

MVB 6255 APPLIED TUBA, SECONDARY (2)

MVB 6451 APPLIED TRUMPET (4)

MVB 6452 APPLIED FRENCH HORN (4)

MVB 6453 APPLIED TROMBONE (4)

MVB 6454 APPLIED BARITONE (4)

MVB 6455 APPLIED TUBA (4)

MVK 6251 APPLIED PIANO, SECONDARY (2)

MVK 6451 APPLIED PIANO (4)

MVP 6251 APPLIED PERCUSSION, SECONDARY (2)

MVP 6451 APPLIED PERCUSSION (4)

MVS 6251 APPLIED VIOLIN, SECONDARY (2)

MVS 6252 APPLIED VIOLA, SECONDARY (2)

MVS 6253 APPLIED VIOLONCELLO, SECONDARY (2)

MVS 6254 APPLIED DOUBLE BASS, SECONDARY (2)

MVS 6255 APPLIED HARP, SECONDARY (2)

MVS 6256 APPLIED CLASSICAL GUITAR, SECONDARY (2)

MVS 6451 APPLIED VIOLIN (4)

MVS 6452 APPLIED VIOLA (4)

MVS 6453 APPLIED VIOLONCELLO (4)

MVS 6454 APPLIED DOUBLE BASS (4)

MVS 6455 APPLIED HARP (4)

MVS 6456 APPLIED CLASSICAL GUITAR (4)

MVV 6251 APPLIED VOICE, SECONDARY (2)

MVV 6451 APPLIED VOICE (4)

MVW 6251 APPLIED FLUTE, SECONDARY (2)

MVW 6252 APPLIED OBOE, SECONDARY (2)

MVW 6253 APPLIED CLARINET, SECONDARY (2)

MVW 6254 APPLIED SAXOON, SECONDARY (2)

MVW 6255 APPLIED SAXOPHONE, SECONDARY (2)

MVW 6451 APPLIED FLUTE (4)

MVW 6452 APPLIED OBOE (4)

MVW 6453 APPLIED CLARINET (4)

MVW 6454 APPLIED BASSOON (4)

MVW 6455 APPLIED SAXOPHONE (4)

MASTER CLASS COURSES (below)

PR: CI. Study and performance of selected literature with special em-

phasis on style, form, and techniques; especially designed for teachers, piano majors, and talented secondary school students.

MVK 5751 PIANO, MASTER CLASS (2)

MVS 5750 STRINGS, MASTER CLASS (2)

MVV 5751 VOICE, MASTER CLASS (2)

STUDIO TEACHING SEMINAR (below)

PR: Graduate standing in performance and CI; emphasis on techniques used in teaching the individual student in performance.

MVK 6650 STUDIO TEACHING SEMINAR-CLASS (2)

PIANO (2)

MVK 6651 STUDIO TEACHING SEMINAR-PIANO (2)

MVS 6650 STUDIO TEACHING-STRINGS (2)

MVV 6651 STUDIO TEACHING-VOICE (2)

MVW 6650 STUDIO TEACHING-WINDS AND PERCUSSION (2)

MUSIC EDUCATION

Chairperson: L. Cullison *Professors:* V.A. Bridges, L. Cullison, T.B.A., T.B.A.

UNDERGRADUATE COURSES

MUE 2420 THEORETICAL BASES OF MUSIC EDUCATION (1)

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 3411 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 3413 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 3414 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 4050 FOUNDATIONS OF INSTRUMENTAL MUSIC (3)

PR: CI. Junior standing. Introduction to the foundation of instrumental music instruction in the elementary and middle school.

MUE 4130 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 4314 MUSIC IN THE ELEMENTARY SCHOOL (3)

A study of principles, techniques, materials, and activities as they relate to a comprehensive music curriculum in Grades K-6.

MUE 4331 CHORAL METHODS IN THE SECONDARY SCHOOL (3)

PR: CI. Junior standing. Development and implementation of methods and techniques for teaching secondary school choral music.

MUE 4332 INSTRUMENTAL MUSIC IN THE SECONDARY SCHOOL (3)

PR: CI. Junior standing. Development and implementation of methods and techniques for teaching secondary school instrumental music.

MUE 4480 BAND PAGEANTRY (1)

This course is designed as an elective offering for instrumental music majors who expect to direct band activities in a secondary school. It will provide the student with skills in creating half-time shows, and integral part of the band teacher's responsibilities.

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)

PR: Senior standing. 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 to 12 semester hours. (S/U only.)

MUE 4945 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 4946 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 an academic year or program closing. (S/U only.)

GRADUATE COURSES**MUE 6080 FOUNDATIONS AND PRINCIPLES OF****MUSIC EDUCATION**

(3)

PR: Acceptance into Music Education Graduate Program or CI. Investigation of historical, philosophical and psychological foundations of music education.

MUE 6116 ADVANCED ELEMENTARY SCHOOL**MUSIC**

(3)

PR: Acceptance in the Music Education Graduate Program or CI. Study and appraisal of children's musical growth, curriculum plans, materials and teaching techniques essential for the sequential development of musical learnings.

MUE 6189 MUSIC SUPERVISION AND**ADMINISTRATION**

(3)

The music curriculum in relation to the total school program; staff and budgetary needs.

MUE 6415 ADVANCED SECONDARY VOCAL MUSIC

(3)

PR: Acceptance in the Music Education Graduate Program or CI. Course provides for graduate students in music education the opportunity to examine current research related to the teaching of secondary school vocal music, evaluate curricula, music materials, and teaching methods that will enable them to develop a vocal music program which emphasizes musical sensitivity.

MUE 6418 ADVANCED MATERIALS FOR INSTRUMENTAL**MUSIC EDUCATION**

(3)

PR: Acceptance in the Music Education Graduate Program and CI. Course designed to examine published and unpublished materials, develop curricula and resources, including medial hardware, appropriate for use in school instrumental music programs.

MUE 6495 INSTRUMENTAL CONDUCTING IN THE SECONDARY SCHOOLS

(3)

PR: Acceptance in the Music Education Graduate program or CI. Course designed to develop skills of analysis and interpretation needed by school instrumental music teachers. Class activities include laboratory settings and performance practices.

MUE 6496 CHORAL CONDUCTING IN THE SECONDARY SCHOOLS

(3)

PR: Acceptance in the Music Education Graduate program or CI. Course designed to develop essential conducting competencies required of a choral music director in the secondary schools.

MUE 7630 AESTHETICS IN MUSIC EDUCATION

(3)

PR: Acceptance in the music education graduate program or CI. A course designed to investigate the nature of philosophical and psychological aesthetics as they relate to aesthetic and educational theories that influence programs in music education.

MUE 7641 FOUNDATIONS OF MUSICAL LEARNING AND TEACHING

(3)

PR: Acceptance in the Music Education graduate program, a graduate level educational psychology course or its equivalent, or CI. A critical examination of current findings regarding the phenomena of the psychology of musical behaviors, major problems and plausible solutions. Investigation of musical acoustics, the measurement of musical abilities, and a comparative study of theories of learning related to musical learning.

THEATRE

Chairperson: N. Cole; *Professor:* P. B. O'Sullivan; *Associate Professors:* J. W. Belt, D. Calandra, N. Cole, W. A. Lorenzen, P. Massie; *Assistant Professors:* A. Lillethun, C. Steele, D. K. Williams; *Lecturers:* M. A. Bentley; *Visiting Assistant Professor:* M. Bishop; *Visiting Lecturer:* L. Kotler; *Other:* P. Finelli, G. Stephens, J. Winsor.

UNDERGRADUATE COURSES**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, TPP 2110. Required of all theatre majors.

THE 3080C MODERN THEATRE PRACTICE

(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 PERFORMANCE

(1)

The rehearsal, construction, production of major theatrical works. Concurrent registration in this course is expected of all students who are enrolled in courses carrying an ACPI (Advanced Course Production Involvement). Assignments are made contractually at the time of registration. Open to non-majors on a credit or non-credit 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. Required of all theatre majors.

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 tech-design track/costume.) Open to upper level non-majors with CI.

THE 4266 ARCHITECTURE AND DECOR

(3)

The survey of architectural and decorative motifs and decor and their stylistic concepts. (A requirement in the tech/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 event. Enables the student to analyze these scripts in light of their present producibility and past cultural energy. Open to non-majors with CI.

THE 4330 SHAKESPEARE FOR THE THEATRE

(3)

PR: THE 3110. Study of several of Shakespeare plays from the histrionic point of view. "No sort of study of a (Shakespeare) play can better the preparation of its performance if this is rightly done." Harlrye Granville-Baker. Open to non-majors with CI.

THE 4370 THE 19TH CENTURY THEATRE REVOLUTION

(3)

PR: THE 3110. Survey of materials in the Continental, English, and American stage dating from 1870. Deals with the extraordinary playwrights and new theatre movements. Open to non-majors with CI.

THE 4401 O'NEILL AND AFTER

(3)

PR: THE 3110. Survey of materials in the American Theatre from the writings of Eugene O'Neill to the present. Open to non-majors with CI.

THE 4442 THE COMEDY OF THE CLASSIC AND NEO-CLASSIC STAGE

(3)

PR: THE 3110. A course in the function of the script for the active theatre artist, treating materials from the Ancient Greeks through the

Restoration and the theatre of Moliere, giving some attention to later reflections. Open to non-majors with CI.

THE 4480 DRAMA-SPECIAL TOPICS (3)

PR: THE 3110. A course in the function of the script for the active theatre artist treating materials of a particular playwright or grouping of playwrights. Repeatable with consent of advisor and change in topic. Open to non-majors with CI.

THE 4562 SENIOR COLLOQUIUM IN THEATRICAL CREATIVITY (3)

PR: THE 4180. A colloquium in the nature of the synthesized theatre object. Required of all theatre majors. Open to senior non-majors with CI.

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 PERFORMANCE (1)

PR: THE 3925 or CI. The study, rehearsal and performance of major theatrical works. Admission by audition. 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.

TPA 2200 THEATRE CRAFTS: STAGECRAFT (3)

The scenic materials and skills basic to theatrical production. An introductory course with lab. Required of all performance majors. Open to non-majors.

TPA 2223 THEATRE CRAFTS: LIGHTING (3)

Required of all tech/design majors. The basic equipment and skills used in lighting and sound for stage productions. This course or TPA 2232 Theatre Crafts: Costume required of all performance majors. Open to non-majors.

TPA 2232 THEATRE CRAFTS: COSTUME (3)

Required of all Tech/Design majors. This course of TPA 2223 Theatre Crafts: Lighting required of all Performance majors. By learning basic tools, processes and materials used in the Costume Shop, the student will become skilled in the costuming process. This course also trains students in wardrobe crew practices and in preparing costumes in the USF Costume Shop. Open to non-majors.

TPA 2250 WORKSHOP IN STAGE MAKEUP (1)

Beginning theory and practice in make-up for the stage. Theatre majors given preference. A studio course.

TPA 3086 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. This course covers the principles of color theory and composition as pertains to lighting design. Laboratory experiments in usage of light to create space utilizing shadow, texture and blending. Introduction to stage lighting methods and graphics.

TPA 3601 STAGE MANAGEMENT (2)

PR: TPA 2200, TPA 2223, or TPA 2232. A practical course in the working organizational function of the stage manager in theatre, dance, opera, and other live performance situations.

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 non-majors with CI.

TPA 3840 PUPPETRY PERFORMANCE AND PRODUCTION (4)

PR: TPA 3810. The creation, building, rehearsal, and performance of plays for puppet theatre. May be repeated one time for additional elective credit, with CI, to a total of 8 hours. Open to non-majors with CI.

TPA 4012 PROJECT DESIGN: HONORS (3)

PR: One of TPA 4020, TPA 4040, TPA 4060. A workshop for students in scenery, lighting, and costume design admitted only by recommendation of instructor and review of portfolio. Consideration will be given to integrating the design for setting, costumes, and lights; under special circumstances credit may be given for actualized production design.

TPA 4020 LIGHT DESIGN (4)

PR: ART 3301C, TPA 3221, TPA 4211. The aesthetic and practical application of the elements of design in lighting for theatre presentation. A requirement in the tech/design track/lighting.

TPA 4040 COSTUME DESIGN (4)

PR: ART 3301C, THE 4264 and TPA 2232. The aesthetic and practical application of the elements of design in costume for theatre presentation. A requirement in the tech/design track/costume.

TPA 4060 SCENE DESIGN (4)

PR: TPA 4211, THE 4266, and ART 3301C. The aesthetic and practical application of the elements of design in scenery for theatre presentation. A requirement in the tech/design track/scenic.

TPA 4081 SCENE PAINTING (2)

PR: TPA 3086. A practical course in the painting of stage scenery—media and application.

TPA 4211 STAGECRAFT AND DRAFTING (3)

PR: TPA 3086. A practical course in drafting for the stage, scenic construction and application. A requirement in the tech/design/scenic and lighting.

TPA 4230 COSTUME CONSTRUCTION (3)

PR: TPA 3086, TPA 2232. A practical course in the drafting of workable patterns for costuming the actor. Materials, skills, and techniques for construction of costumes and costume accessories for stage will be treated. Included topics are millinery, footwear, jewelry, masks, armor, corsetry; both period and modern.

TPA 4240 STAGE PROPERTIES: TECHNIQUES AND MATERIALS STUDIO (2)

PR: TPA 3086. Demonstration and experience with comparatively newer materials used in construction of stage properties. Modeling of prototypes and basic casting techniques. Organization of shop. Open to non-majors.

TPA 4281 PRACTICUM IN TECHNICAL SUPERVISION (2)

PR: One of TPA 4211, or TPA 2232. A study of the technical operation and organization for the theatre technologist in costume or in scenery-lighting. Advanced problems in technology and organization.

TPA 4402 THEATRE MANAGEMENT WORKSHOP (2)

PR: completion of the first two years of the theatre program. The study of management relations for the theatre, including all fields of management from box office to publicity.

TPP 2110 VOICE-BODY-IMPROVISATION (2)

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. The techniques of textual and script analysis related to the composition of 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 the 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. Repeatable for credit. Required of all theatre majors with a performance concentration. Open to upper-level non-majors with CI. May be repeated for credit.

TPP 3510 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. Repeatable for credit. Required of all theatre majors with a performance concentration. Open to upper-level non-majors with CI. May be repeated for credit.

TPP 4140 SCENE STUDY II (4)

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 (4)

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 III (4)

PR: TPP 4140 and audition. Advanced scene study. Required of all theatre majors with a performance concentration.

TPP 4180 SCENE STUDY HONORS (3)

PR: TPP 4152; admittance by competitive audition. The aesthetics of acting. The various theories of the art. A studio course.

TPP 4220 AUDITION WORKSHOP FOR THE ACTOR (2)

PR: TPP 4150 and TPP 4140 or CI. Preparation for professional audition; discussion of professional objectives.

TPP 4230L 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 (to a total of 9 hours credit).

TPP 4250 MUSIC THEATRE WORKSHOP (3)

PR: TPP 3111. Special problems in acting as applied to the musical theatre.

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 (3)

PR: Completion of the first two years as a theatre major and CI. An elective in writing for the theatre, starting with explorations of theatre as a medium, exercise in theatre form and techniques and progressing to an advanced workshop in plays and other styles of theatre pieces. May be repeated for credit. Open to non-majors with CI.

TPP 4920 SENIOR WORKSHOP FOR ACTORS (3)

PR: TPP 4152, TPP 3500, TPP 3790L. A workshop in advanced vocal and movement techniques. Required for all theatre majors with a performance concentration.

GRADUATE COURSES

THE 5902 DIRECTED READING (1-4)

PR: CI and CC. Reading in topics of special interest to the student. Contract defining scope of projects, materials used, expected results and credit hours assigned must be completed prior to registration. May be repeated for different topics.

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 student demand and instructor interest. May be lecture or class discussion or studio format. May be repeated for credit for different topics only.

COLLEGE OF MEDICINE

ANATOMY

Chairperson: J. A. G. Rhodin; *Professor:* H. N. Schnitzlein; *Associate Professors:* H. K. Brown, L. T. Chen, J. A. Colombo, J. J. Dwornik, M. F. Nolan, C. P. Phelps; *Assistant Professors:* D. R. Hilbelink, S. Saporta, J. C. Lanning.

BMS 6100 GROSS ANATOMY (var.)

PR: Admission to College of Medicine.

BMS 6110 MICROSCOPIC ANATOMY (var.)

PR: Admission to College of Medicine.

BMS 6150 NEUROANATOMY (var.)

PR: Admission to College of Medicine.

BMS 6160 ANATOMY SEMINAR (0)

PR: Consent of Chairman, Department of Anatomy.

BMS 7170 REGIONAL ANATOMY I—Head and Neck (var.)

PR: Enrolled in College of Medicine.

BMS 7171 REGIONAL ANATOMY II—Thorax, Abdomen, Pelvis and Perineum (var.)

PR: Enrolled in College of Medicine.

BMS 7172 REGIONAL ANATOMY III—Extremities (var.)

PR: Enrolled in College of Medicine.

BMS 7174 MEDICAL DEVELOPMENT ANATOMY and Teratology (var.)

PR: Enrolled in College of Medicine.

BMS 7175 ADVANCED NEUROANATOMY (var.)

PR: Enrolled in College of Medicine.

BMS 7176 ADVANCED MICROSCOPIC ANATOMY (var.)

PR: Enrolled in College of Medicine.

BMS 7177 APPLIED NEUROANATOMY (var.)

PR: Enrolled in College of Medicine.

BMS 7178 CROSS SECTIONAL ANATOMY (var.)

PR: Enrolled in College of Medicine.

GMS 6600C CORE COURSE IN HUMAN ANATOMY (5)

PR: Admission to Ph.D. Program in Medical Sciences.

GMS 6601 METHODS OF ELECTRON MICROSCOPY IN MEDICAL RESEARCH (3)

PR: GMS 6600, GMS 6608, or CC.

GMS 6602 NEURAL CORRELATES OF BEHAVIOR (3)

PR: GMS 6600, or CC.

GMS 6603 COMPARATIVE NEUROANATOMY (2)

PR: GMS 6600, or CC.

GMS 6604 HUMAN EMBRYOLOGY (3)

PR: GMS 6600, or CC.

GMS 6605 COMPARATIVE HEMATOLOGY (2)

PR: GMS 6600, or CC.

GMS 6606 ANATOMICAL ILLUSTRATIONS AND METHODS (2)

PR: GMS 6600, or CC.

GMS 6607 HISTORY OF ANATOMY (2)

PR: GMS 6600, or CC.

GMS 6608 ADVANCED MICROSCOPIC ANATOMY (3-6)

PR: GMS 6600, or CC.

GMS 6609 ADVANCED HUMAN GROSS ANATOMY (6-12)

PR: GMS 6600, or CC.

GMS 6610 ADVANCED NEUROANATOMY (3-6)

PR: Admission to GMS program and acceptance into the Anatomy department.

GMS 6611 INTRODUCTION TO ANATOMICAL RESEARCH (2)

PR: Admission to GMS program and acceptance into the Anatomy department.

GMS 6612 SUPERVISED TEACHING IN HUMAN ANATOMY (3)

PR: GMS 6608, 6609, or 6610 and acceptance into the Anatomy department.

BIOCHEMISTRY

Chairperson: J. G. Cory; *Professor:* J. G. Cory; *Associate Professors:* W. L. Adair, Jr., R. Kennedy Keller, G. C. Ness, L. P. Solomonson; *Assistant Professors:* D. C. Eichler, M. T. Williams

- BMS 6200 BIOCHEMISTRY** (var.)
PR: Admission to College of Medicine
- BMS 6230 BIOCHEMISTRY SEMINAR** (0)
PR: CI.
- BMS 7260 RESEARCH IN BIOCHEMISTRY** (var.)
PR: Enrolled in College of Medicine.
- BMS 7262 MOLECULAR BASIS OF METABOLIC REGULATIONS** (var.)
PR: Admitted to College of Medicine.
- GMS 6103 METABOLIC BASIS OF DISEASE** (2)
PR: GMS 6200 or CC.
- GMS 6200C CORE COURSE IN MEDICAL BIOCHEMISTRY** (5)
PR: Admission to Ph.D. Program in Medical Sciences.
- GMS 6414 BIOLOGICAL MEMBRANES-STRUCTURE AND FUNCTION** (3)
PR: GMS 6200 or CC.
- GMS 6415 LIPID METABOLISM AND REGULATION** (3)
PR: GMS 6200 or CC.
- GMS 6416 MACROMOLECULAR METABOLISM** (3)
PR: GMS 6200 or CC.

COMPREHENSIVE MEDICINE

Chairperson: W. A. Sodeman, Jr.; *Professors:* R. H. Hamlin, R. J. Loisel, D. H. Smith, D. L. Smith, W. A. Sodeman, Jr.; *Associate Professor:* G. E. Rodrick; *Assistant Professors:* N. G. Alexiou, P. R. Bartlett, E. L. Husting, W. M. Tucker, A. C. Vickery, A. L. Vincent.

- MEL 8200 INTRODUCTION TO REHABILITATION MEDICINE** (Var.)
PR: Admission to the College of Medicine.
- MEL 8201 INTRODUCTION TO ELECTROMYOGRAPHY** (Var.)
PR: Admission to the College of Medicine.
- MEL 8206 COMMUNITY PUBLIC HEALTH AND PREVENTIVE MEDICINE** (var.)
PR: Admission to the College of Medicine.
- MEL 8207 LABORATORY RESEARCH IN TROPICAL MEDICINE** (var.)
PR: Admission to the College of Medicine.

FAMILY MEDICINE

Chairperson: C. E. Aucremann, M.D.; *Associate Professors:* C. E. Aucremann, M.D., I. A. MacPhail, M.D.; *Assistant Professors:* B. Breiter, M.D., R. W. Dodd, M.D., T. T. Gladfelter, M.D., T. E. Hamilton, M.D., J. E. Perchalski, M.D., T. F. Seehausen, M.D., J. R. Warren, M.D.

- MEL 7255 OUT-PATIENT FAMILY MEDICINE** (var.)
PR: Enrolled in College of Medicine.
- MEL 7256 IN-PATIENT FAMILY MEDICINE** (var.)
PR: Enrolled in College of Medicine.
- MEL 7257 GERIATRIC MEDICINE** (var.)
PR: Enrolled in College of Medicine.
- BCC 8171 FAMILY PRACTICE PRECEPTORSHIP** (var.)
PR: Enrolled in College of Medicine.

INTERDISCIPLINARY

- MEL 7320 EXTRAMURAL CLERKSHIP** (var.)
PR: Enrolled in College of Medicine.
- MEL 7102 PERINATOLOGY** (var.)
PR: Enrolled in College of Medicine.
- MEL 7103 PEDIATRIC CARDIOLOGY AND PHYSIOLOGY** (var.)
PR: Enrolled in College of Medicine.
- MEL 7104 DEPARTMENTAL OVERVIEWS** (var.)
PR: Enrolled in College of Medicine.

- MEL 7106 CLINICAL LABORATORY IMMUNOLOGY** (var.)
PR: Enrolled in College of Medicine.
- MEL 7107 IMMUNOLOGY OF PARASITIC INFECTIONS** (var.)
PR: Enrolled in College of Medicine.
- MEL 7108 OBSTETRIC AND GYNECOLOGIC PATHOLOGY** (var.)
PR: Enrolled in College of Medicine.
- MEL 7109 OUTPATIENT PSYCHIATRY AND PRIMARY CARE** (var.)
PR: Enrolled in College of Medicine.
- BCC 9180 AMBULATORY CARE ROTATION** (var.)
PR: Enrolled in College of Medicine.
- GMS 7418 DIRECTED RESEARCH** (var.)
PR: Gr. Ph.D. level. Repeatable (S/U only.)
- GMS 7930 SELECTED TOPICS** (1-3)
PR: Departmental Core Course or CC.
- GMS 7939 GRADUATE SEMINAR** (1)
PR: Departmental Core Course or CC.
- GMS 7980 DISSERTATION: DOCTORAL** (var.)
PR: Must be admitted to Doctoral Candidacy, Repeatable. (S/U only.)

INTERNAL MEDICINE

Chairperson: R. H. Behnke; *Professors:* H. W. Boyce, S. C. Bukantz, C. P. Craig, V. DiCarlo, R. V. Farese, H. D. Friedberg, S. P. Glasser, A. L. Goldman, W. S. Harris, R. C. Hartmann, J. W. Hickman, R. E. Kory, E. L. Lozner, R. A. Olsson, L. D. Prockop, J. T. Riffin, D. L. Shires, W. A. Sodeman, Jr., A. Szentivanyi; *Distinguished Visiting Professor:* L. E. Young; *Associate Professors:* P. Altus, P. G. Brady, A. deQuesada, E. A. Eikman, L. R. Espinoza, N. A. Fenske, J. L. Finster, A. Ganguly, R. Ganguly, B. F. Germain, C. Gomez-Sanchez, R. R. Lockett, G. H. Lyman, H. J. Nord, R. J. Pollet, G. Ramirez, H. I. Saba, D. A. Solomon, E. J. Spoto, Jr.; *Assistant Professors:* P. P. Barry, W. P. Boyd, Jr., J. F. Breen, W. J. Bugni, K. Chandler, M. Chen, P. Clark, K. Corrigan, Y. E. Cummings, D. G. Dillenbeck, W. R. Dinwoodie, R. Fox, B. Frank, R. B. Hartman, T. Howard, T. M. Johnson, J. Korthals, E. M. Lasche, W. M. LeFor, A. I. Liebowitz, J. J. Mamel, C. S. Maxwell, B. Ogur, W. A. Pettit, B. Robinson, D. D. Schocken, P. Schulman, D. J. Schwartz, F. Slone, J. J. Steblein, L. Sterescu, P. R. Stutsman, C. Taylor, L. E. Tenorio, F. B. Vasey, C. Williams, B. G. Yangco, R. Ziebert; *Instructors:* E. Gomez-Sanchez, C. Jackson, D. J. Kersting, J. Madden, W. S. Miller.

- BMS 6810 INTRODUCTION TO MEDICINE** (var.)
PR: Admission to College of Medicine.
- BMS 6830 PHYSICAL DIAGNOSIS** (var.)
PR: Admission to College of Medicine.
- BCC 6110 MEDICINE CLERKSHIP** (var.)
PR: Admission to College of Medicine.
- MEL 7303 ELECTRO-CARDIOGRAPHIC INTERPRETATION** (var.)
PR: Enrolled in College of Medicine.
- MEL 7321 CLINICAL DERMATOLOGY** (var.)
PR: Enrolled in the College of Medicine.
- MEL 7305 CLINICAL ENDOCRINOLOGY AND METABOLISM** (var.)
PR: Enrolled in College of Medicine.
- MEL 7306 GASTROENTEROLOGY ELECTIVE** (var.)
PR: Enrolled in College of Medicine.
- MEL 7310 INFECTIOUS DISEASE** (var.)
PR: Enrolled in College of Medicine.
- MEL 7313 CLINICAL NEPHROLOGY** (var.)
PR: Enrolled in College of Medicine.
- MEL 8308 HEMATOLOGY-ONCOLOGY** (var.)
PR: Enrolled in College of Medicine.
- BCC 8121 CLINICAL NEUROLOGY CLERKSHIP** (var.)
PR: Enrolled in College of Medicine.
- MEL 8676 NEUROLOGY OF AMBULATORY PATIENTS** (var.)
PR: Enrolled in College of Medicine.
- MEL 8334 ACTING MEDICINE INTERNSHIP** (var.)
PR: Enrolled in College of Medicine.
- MEL 8335 ELECTIVE IN AMBULATORY INTERNAL MEDICINE** (var.)
PR: Enrolled in College of Medicine.

- MEL 8315 ALLERGY AND CLINICAL IMMUNOLOGY** (var.)
PR: Enrolled in College of Medicine.
- MEL 8336 AMBULATORY CARE ELECTIVE-ENDROCRINOLOGY AND METABOLISM** (var.)
- MEL 8302 CLINICAL CARDIOLOGY I (VA)** (var.)
PR: Enrolled in College of Medicine.
- MEL 8337 CLINICAL CARDIOLOGY II (TGH)** (var.)
PR: Enrolled in College of Medicine.
- MEL 8339 CLINICAL RHEUMATOLOGY ELECTIVE** (var.)
PR: Enrolled in College of Medicine.
- MEL 8388 RESEARCH IN RHEUMATOLOGY IMMUNOLOGY** (var.)
PR: Enrolled in College of Medicine.
- MEL 8340 PULMONARY DISEASE-VA HOSPITAL** (var.)
PR: Enrolled in College of Medicine.
- MEL 8341 PULMONARY DISEASE-TGH** (var.)
PR: Enrolled in College of Medicine.
- MEL 8342 GENERAL MEDICINE EXTERNSHIP: ORLANDO REGIONAL MEDICAL CENTER** (var.)
PR: Enrolled in College of Medicine.
- MEL 8343 CLINICAL CARDIOLOGY III-ORLANDO** (var.)
PR: Enrolled in College of Medicine.
- MEL 8344 MEDICAL ASPECTS OF NEUROLOGICAL DISEASE** (var.)
PR: Enrolled in College of Medicine.
- MEL 8345 MEDICAL ONCOLOGY** (var.)
PR: Enrolled in College of Medicine.

MEDICAL MICROBIOLOGY AND IMMUNOLOGY

Chairperson: H. Friedman; *Professors:* H. Friedman, D. G. Halkias; *Associate Professors:* R. J. Grasso, G. J. Lancz, L. R. Nelson, L. J. Paradise; *Assistant Professors:* T. W. Klein, W. M. LeFor, S. Livnat, S. H. Pross, S. Specter.

- BMS 6300 MEDICAL MICROBIOLOGY** (var.)
PR: Admission to College of Medicine.
- BMS 6320 MEDICAL MICROBIOLOGY SEMINAR** (0)
PR: CC.
- BMS 7360 CLINICAL MICROBIOLOGY** (var.)
PR: Enrolled in College of Medicine.
- GMS 6100C CORE COURSE IN MEDICAL MICROBIOLOGY** (5)
PR: Admission to Ph.D. Program in Medical Sciences.
- GMS 6101 DIAGNOSTIC MICROBIOLOGY** (3)
PR: GMS 6100 or CC.
- GMS 6102 RESEARCH PLANNING AND METHODS** (3)
PR: GMS 6100 or CC.
- GMS 6104 CELLULAR IMMUNOLOGY** (3)
PR: GMS 6100 or CC.
- GMS 6105 ADVANCES IN IMMUNOLOGY** (2)
PR: GMS 6100 or CC.
- GMS 6106 IMMUNOCHEMISTRY** (3)
PR: GMS 6100 or CC.
- GMS 6107 ADVANCES IN VIROLOGY** (2)
PR: GMS 6100 or CC.
- GMS 6108 MICROBIAL PHYSIOLOGY AND GENETICS** (2)
PR: GMS 6100 or CC.
- GMS 6109 REGULATORY CONTROL MECHANISMS IN ANIMAL CELL SYSTEMS** (2)
PR: GMS 6100 or CC.
- GMS 6110 HOST-PARASITE INTERACTIONS** (2)
PR: GMS 6100 or CC.
- GMS 6417 ANIMAL RESEARCH METHODS** (3)
PR: GMS 6100 or CC.

OBSTETRICS/GYNECOLOGY

Chairperson: James M. Ingram; *Professors:* James M. Ingram, Denis Cavanagh; *Associate Professors:* Robert A. Knuppel, Papineni S. Rao,

Thomas W. McDonald, Barry S. VerKauf, *Assistant Professors:* Jose C. Scerbo; *Other Faculty:* Donald A. Marsden, P.K. Rattan.

- BCC 6130 OBSTETRICS-GYNECOLOGY CLERKSHIP** (var.)
PR: Admission to College of Medicine.
- MEL 7404 GYNECOLOGIC ONCOLOGY** (var.)
PR: Admission to College of Medicine.
- MEL 7440 RESEARCH IN OBSTETRICS-GYNECOLOGY** (var.)
PR: Admission to College of Medicine.
- MEL 7411 PREPARATION FOR PRACTICE** (var.)
PR: Admission to College of Medicine.
- MEL 7410 THE INFERTILE COUPLE** (var.)
PR: Admission to College of Medicine.
- MEL 7412 INFECTIOUS DISEASE IN OBSTETRICS AND GYNECOLOGY** (var.)
PR: Admission to College of Medicine.

OPHTHALMOLOGY

Chairperson: W. E. Layden; *Professors:* W. Biersdorf, W. C. Edwards, W. E. Layden; *Associate Professors:* J. J. Older, E. Torczynski; *Assistant Professors:* W. S. Grizzard, B. Goldstein, R. J. Gstalter, J. B. Hess, F. J. Mendelblatt, P. R. Pavan, E. G. Rosanelli, J. A. Rush, A. Weiss; *Other:* John H. Brinser.

- MEL 7501 MEDICAL OPHTHALMOLOGY** (var.)
PR: Admission to College of Medicine.
- MEL 7503 TUTORIAL COURSE OF ADVANCED OPHTHALMOLOGY** (var.)
PR: Admission to College of Medicine.
- MEL 7506 OCULAR INFLAMMATION** (var.)
PR: Admission to College of Medicine.
- MEL 7507 RETINAL ELECTIVE** (var.)
PR: Admission to College of Medicine.
- MEL 7508 NEUROOPHTHALMOLOGY** (var.)
PR: Admission to College of Medicine and MEL 7501 or MEL 7503.
- MEL 8520 OPHTHALMIC PATHOLOGY** (var.)
PR: Admission to College of Medicine and MEL 7501 or MEL 7503.

PATHOLOGY

Chairperson (Acting): J. U. Balis; *Professors:* H. A. Azar, J. U. Balis, P. Byvoet, D. G. Halkias, P.J. Schmidt; *Associate Professors:* M.J. Lotz, S.A. Shelley; *Assistant Professors:* U. Desai, C. G. Espinoza, S. R. Saba, T. Y. Wang; *Assistants in Research:* J. E. Paciga, J. F. Paterson.

- BMS 6600 MEDICAL PATHOLOGY** (var.)
PR: Enrolled in College of Medicine.
- BMS 6610 LABORATORY MEDICINE** (var.)
PR: Enrolled in College of Medicine.
- BMS 7611C ELECTIVE IN LABORATORY MEDICINE** (var.)
PR: Enrolled in College of Medicine.
- BMS 7661C EXPERIMENTAL PATHOLOGY** (var.)
PR: Enrolled in College of Medicine.
- BMS 7663C PATHOLOGIC ANATOMY** (var.)
PR: Enrolled in College of Medicine.
- BMS 7664C FLEXIBLE ELECTIVE IN PATHOLOGY** (var.)
PR: Enrolled in College of Medicine.
- GMS 6111 HUMAN SYSTEMIC PATHOLOGY** (3)
PR: GMS 6300 or CC.
- GMS 6112 BIOCHEMICAL PATHOLOGY** (2)
PR: GMS 6300 or CC.
- GMS 6113 IMMUNOPATHOLOGY** (2)
PR: GMS 6300 or CC.
- GMS 6300C CORE COURSE IN PATHOLOGY** (5)
PR: Admission to Ph.D. Program in Medical Sciences.
- GMS 6301 ADVANCED GROSS PATHOLOGY** (2)
PR: GMS 6300 or CC.
- GMS 6302 ADVANCED MICROSCOPIC PATHOLOGY** (2)
PR: GMS 6300 or CC.
- GMS 6303 ELECTRON MICROSCOPY OF DISEASE STATES** (2)
PR: GMS 6300 or CC.

PEDIATRICS

Chairperson: L. A. Barness; *Professors:* L. A. Barness, F. J. Cozzetto, J. S. Curran, J. A. Hallock, J. I. Malone, A. W. Root; *Associate Professors:* L. Cimino, B. Germain, E. H. Hvizdala, J. M. Judisch, B. Kousseff, W. E. Rush, T. A. Tedesco, P. R. Williams; *Assistant Professors:* S. E. Carlson, J. M. Cupoli, P. W. DeVoe, R. J. Fernandez, R. L. Julius, K. Kanarek, W. Karniski, M. Pavan, L. J. Price, C. D. Reiner, E. R. Root, J. M. Sherman, Jr., R. L. Siegel, A. Vargas.

- BCC 6142 PEDIATRICS CLERKSHIP** (var.)
PR: Enrolled in College of Medicine.
- MEL 7551 INPATIENT PEDIATRICS, TAMPA GENERAL HOSPITAL** (var.)
PR: Enrolled in College of Medicine.
- MEL 7560 PEDIATRIC CLINICAL CARDIOLOGY** (var.)
PR: Enrolled in College of Medicine.
- MEL 7563 PEDIATRIC NEPHROLOGY** (var.)
PR: Enrolled in College of Medicine.
- MEL 7565 NEONATOLOGY** (var.)
PR: Enrolled in College of Medicine.
- MEL 8591C RESEARCH IN PEDIATRIC MEDICINE AND GENETICS** (var.)
PR: Enrolled in College of Medicine.
- MEL 7596C DIABETES & METABOLIC DISEASE RESEARCH** (var.)
PR: Enrolled in College of Medicine.
- MEL 8555 ALL CHILDREN'S HOSPITAL** (var.)
PR: Enrolled in College of Medicine.
- MEL 8566 PEDIATRIC ENDOCRINOLOGY-CLINICAL** (var.)
PR: Enrolled in College of Medicine.
- MEL 8567 PEDIATRIC PRACTICE** (var.)
PR: Enrolled in College of Medicine.
- MEL 8568 PEDIATRIC HEMATOLOGY-ONCOLOGY** (var.)
PR: Enrolled in College of Medicine.
- MEL 8569 PEDIATRIC NEUROLOGY** (var.)
PR: Enrolled in College of Medicine.
- MEL 8570 GENETICS ELECTIVE** (var.)
PR: Enrolled in College of Medicine.
- MEL 8571 CHILD DEVELOPMENT AND BEHAVIOR** (var.)
PR: Enrolled in College of Medicine.
- MEL 8590 NEONATAL RESEARCH** (var.)
PR: Enrolled in College of Medicine.
- MEL 8595 PEDIATRIC ENDOCRINE RESEARCH** (var.)
PR: Enrolled in College of Medicine.

PHARMACOLOGY

Chairperson: A. Szentivanyi; *Vice-Chairperson:* J. J. Krzanowski; *Professors:* D. L. Smith, A. Szentivanyi; *Associate Professors:* R. G. Coffey, D. F. Fitzpatrick, J. F. Hackney, J. J. Krzanowski, M. Montgomery, J. B. Polson, J. F. Williams.

- BMS 6400 PHARMACOLOGY** (var.)
PR: Enrolled in College of Medicine.
- BMS 6420 PHARMACOLOGY SEMINAR** (0)
PR: CC.
- BMS 7371 CLINICAL PHARMACOLOGY** (var.)
PR: Enrolled in College of Medicine.
- BMS 7462 PULMONARY PHARMACOLOGY** (var.)
PR: Enrolled in College of Medicine.
- BMS 7463 DRUG METABOLISM AND PHARMACOGENETICS** (var.)
PR: Enrolled in College of Medicine.
- BMS 7464C RESEARCH IN PHARMACOLOGY** (var.)
PR: Enrolled in College of Medicine.
- BMS 7469 PSYCHOPHARMACOLOGY** (var.)
PR: Enrolled in College of Medicine.
- BMS 7470 CLINICAL PHARMACOLOGY OF CARDIOVASCULAR AGENTS** (var.)
PR: Enrolled in College of Medicine.
- BMS 7472 CLINICAL PHARMACOLOGY OF ANTIBIOTICS** (var.)
PR: Enrolled in College of Medicine.

- GMS 6469 AUTONOMIC PHARMACOLOGY** (2-4)
PR: GMS 6400, GMS 6200, GMS 6500 or CC.
- GMS 6500C CORE COURSE IN PHARMACOLOGY** (5)
PR: GMS 6200, GMS 6400 or CC.
- GMS 6501 THEORETICAL PHARMACOLOGY** (3-6)
PR: GMS 6500 or CC.
- GMS 6502 CLINICAL PHARMACOLOGY** (3-6)
PR: GMS 6100-GMS 6400 or CC.
- GMS 6503 PHARMACOLOGY LABORATORY** (1-3)
PR: GMS 6500 or CC.
- GMS 6504 IMMUNOPHARMACOLOGY** (2-4)
PR: GMS 6100, GMS 6500 or CC.
- GMS 6505 PHARMACOLOGY OF BACTERIAL PRODUCTS** (3-6)
PR: GMS 6100, GMS 6500 or CC.
- GMS 6506 THE PHARMACOLOGY OF BIOLOGICAL MEMBRANES** (3-6)
PR: GMS 6500 or CC.
- GMS 6507 DRUG METABOLISM** (2-4)
PR: GMS 6500 or CC.
- GMS 6508 DRUG ADDICTION, TOLERANCE AND PHYSICAL DEPENDENCE** (2-3)
PR: GMS 6200, GMS 6400 or CC.
- GMS 6509 THE HISTORY OF PHARMACOLOGICAL INVESTIGATION** (1-2)
PR: GMS 6500 or CC.
- GMS 6510 TOXICOLOGY** (3)
PR: GMS 6200, GMS 6400, GMS 6500 and CC.

PHYSIOLOGY

Chairperson: C. H. Baker; *Professors:* C. H. Baker, D. L. Davis; *Associate Professors:* G. R. Nicolosi, R. Shannon, P. Rao; *Assistant Professors:* B. G. Lindsey, S. J. Nazian, J. M. Price, F. R. Wilmoth.

- BMS 6500 MEDICAL PHYSIOLOGY** (var.)
PR: Admission to College of Medicine or
- BMS 6530 PHYSIOLOGY SEMINAR** (0)
PR: Consent of Chairman, Department of Physiology.
- BMS 7560 RESEARCH IN PHYSIOLOGY** (var.)
PR: Enrollment in College of Medicine.
- BMS 7561 CARDIO-PULMONARY-RENAL PHYSIOLOGY** (var.)
PR: Enrolled in College of Medicine.
- BMS 7568C CONTROL OF PHYSIOLOGICAL SYSTEMS** (var.)
PR: Enrolled in College of Medicine.
- GMS 6400C CORE COURSE IN PHYSIOLOGY** (5)
PR: Admission to Ph.D. Program in Medical Sciences.
- GMS 6401 KIDNEY, FLUIDS AND ELECTROLYTES** (4)
PR: GMS 6400 or CC.
- GMS 6402 RESPIRATION** (4)
PR: GMS 6400 or CC.
- GMS 6403 ENDOCRINE MECHANISMS** (4)
PR: GMS 6400 or CC.
- GMS 6404 SYSTEMS NEUROPHYSIOLOGY** (4)
PR: GMS 6400 or CC.
- GMS 6407 SMOOTH AND SKELETAL MUSCLE** (4)
PR: GMS 6400 or CC.
- GMS 6409 PERIPHERAL CIRCULATION AND HEMODYNAMICS** (4)
PR: GMS 6400 or CC.
- GMS 6410 CARDIOVASCULAR REGULATION** (4)
PR: GMS 6400 or CC.
- GMS 6413 PHYSIOLOGICAL BASIS OF CARDIOLOGY** (4)
PR: GMS 6400 or CC.

PSYCHIATRY AND BEHAVIORAL MEDICINE

Chairperson: A. Reading; *Associate Chairperson:* R. Fernandez; *Professors:* E. Pfeiffer, A. Reading, A. Silver, T. Williams, F. Surawicz; *Associate Professors:* D. Anderson, M. Denker, R. Fernandez, G.

Golloway, P. Powers, A. Saenz, D. Bidus, J. Ross; *Assistant Professors:* K. Achenbach, E. Bueno, L. Byrne, R. Cairl, R. Daly, G. Dardano, G. Firestone, R. Gagan, N. Henderson, D. Keller, T. Lowe, A. Raj, K. Shaw, A. Sommer, A. Sterling, J. Edgar, D. Hong, T. Johnson, G. Cadena, M. Ables, J. Colberg, E. Meares, A. Muniz, A. Pena-Ramos, E. Whalen; *Instructors:* G. Gold, M. Lefkowitz, S. Miller, B. Rao, M. Wilson.

BMS 6840 INTRODUCTION TO BEHAVIORAL SCIENCES

PR: Admission to College of Medicine.

(var.)

BMS 6850 PSYCHIATRY SEMINAR

PR: GMS 6600-GMS 6300 or CC.

(0)

BMS 6880 BIOSTATISTICS

PR: Admission to College of Medicine.

(var.)

BCC 6150 PSYCHIATRY CLERKSHIP

PR: Admission to College of Medicine.

(var.)

MEL 7602 ELECTIVE IN CHILD PSYCHIATRY

PR: Enrolled in College of Medicine.

(var.)

MEL 6707 PSYCHIATRY AND MEDICAL PRACTICE

PR: Enrolled in College of Medicine.

(var.)

MEL 7611 ADVANCED CLERKSHIP IN PSYCHIATRY

PR: Enrolled in College of Medicine.

(var.)

MEL 8664 PSYCHIATRIC RESEARCH

(var.)

RADIOLOGY

Chairperson: A. D. Graham; *Professor:* J. A. del Regato; *Associate Professors:* R. A. Gomez, J. R. Gutierrez, R. G. Isbell, M. L. Silbiger, S. Srikantaswamy; *Assistant Professors:* M. S. Farber, S. M. Frenchman, C. P. Shah, H. M. Tanous.

MEL 7700 GENERAL RADIOLOGY

PR: Enrolled in College of Medicine.

(var.)

SURGERY

Chairperson: R. T. Sherman; *Professors:* J. C. Bolivar, R. P. Finney, H. Grabstald, R. J. Noer (Emeritus), W. R. Richardson, R. T. Sherman, C. H. Sutton, G. M. Watkins; *Associate Professors:* R. E. Benway, J. N. Endicott, R. W. Sadlowski, Yarnoz; *Assistant Professors:* J. Aljure, B. E. Barry, L. J. Bartels, W. M. Blackshear, S.D. Campbell, C. W. Cruse, L.W. Luria, C. A. Saraceno, S. J. VanVoorst, D. O. Weber, C. J. Weitzel.

BCC 6160 SURGERY CLERKSHIP

PR: Admission to College of Medicine.

(var.)

MEL 7760 ANESTHESIOLOGY ELECTIVE

PR: Enrolled in College of Medicine.

(var.)

ME: 7800 GENERAL SURGERY ELECTIVE

PR: Enrolled in College of Medicine.

(var.)

MEL 7801 GENERAL SURGERY PRECEPTORSHIP

PR: Enrolled in College of Medicine.

(var.)

MEL 7805 PLASTIC AND RECONSTRUCTIVE SURGERY ELECTIVE

PR: Enrolled in College of Medicine.

(var.)

MEL 7806 PLASTIC SURGERY PRECEPTORSHIP

PR: Enrolled in College of Medicine.

(var.)

MEL 7807 THORACIC SURGERY ELECTIVE

PR: Enrolled in College of Medicine.

(var.)

MEL 7812 NEUROSURGERY ELECTIVE

PR: Enrolled in College of Medicine.

(var.)

MEL 7813 OTOLARYNGOLOGY ELECTIVE

PR: Enrolled in College of Medicine.

(var.)

MEL 7816 OTOLARYNGOLOGY PRECEPTORSHIP

PR: Enrolled in College of Medicine.

(var.)

MEL 7817 ORTHOPEDIC ELECTIVE-INPATIENT

PR: Enrolled in College of Medicine.

(var.)

MEL 7821 SURGERY OF THE HAND ELECTIVE

PR: Enrolled in College of Medicine.

(var.)

MEL 7822 CLINICAL UROLOGY ELECTIVE

PR: Enrolled in College of Medicine.

(var.)

MEL 7823 ORTHOPAEDIC ELECTIVE

PR: Enrolled in College of Medicine.

(var.)

MEL 7824 ORTHOPAEDIC ELECTIVE-OUTPATIENT

PR: Enrolled in College of Medicine.

(var.)

COLLEGE OF NATURAL SCIENCES

ASTRONOMY

UNDERGRADUATE COURSES

AST 2005 ASTRONOMY OF THE SOLAR SYSTEM

(4)

Introduction to the Astronomy of the Solar System. Course level assumes no Physics or Mathematics background. Only simple math will be used. 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. Course level assumes no Physics or Mathematics background. Only simple math will be used. 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 and 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 of 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. No experience in astronomy, physics, or mathematics is necessary. Topics covered in recent years include the space program, pulsars, x-ray astronomy, black holes, extra-terrestrial life, interacting galaxies, cosmology.

AST 3043 HISTORY OF THE SCIENCE OF

ASTRONOMY

(3)

To familiarize seriously interested students with the history of astronomy and the influence of this discipline on the development of human knowledge.

AST 3652 NAVIGATION

(2)

PR: Some knowledge of geometry, algebra and trigonometry. Timekeeping, use of sextant, constellations, navigation with minimum equipment, some 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 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.

GRADUATE COURSES

AST 5506 INTRODUCTION TO CELESTIAL

MECHANICS (3)

PR: MAC 3413 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

Chairperson: S. L. Swihart; *Professors:* M. R. Alvarez, C. J. Dawes, F. E. Friedl, G. Hinsch, J. M. Lawrence, R. L. Mansell, N. M. McClung, A. J. Meyerriecks, G. G. Robinson, W. S. Silver, J. L. Simon, S. L. Swihart, G. E. Woolfenden; *Professor Emeritus:* G. E. Nelson; *Associate Professors:* J. V. Betz, L. N. Brown, B. C. Cowell, F. I. Eilers, F. B. Essig, D. V. Lim, D. T. Merner, J. T. Romeo, L. A. Weber, R. P. Wunderlin; *Assistant Professors:* G. W. Arendash, S. S. Bell, B. J. Cochrane, E. Hickey (Research), E. D. McCoy, A. S. Michaels, D. A. Nickerson, *Lecturers:* C. Hendry, A.A. Latina, H.R. Mushinsky; *Courtesy Professor:* J.W. Frankel.

UNDERGRADUATE COURSES

APB 2103 PLANTS & HUMAN AFFAIRS (3)

PR: BSC 2933. The relation of plants to human history and contemporary life. Botanical and economic aspects of plants used as sources of foods, drugs, and other products of importance in everyday life. Origins of cultivated plants. *For non-majors.*

APB 2130 ENVIRONMENT (3)

PRL BSC 2933. 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.*

APB 2140 FOODS AND DRUGS (3)

PR: BSC 2933. 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.*

APB 2250 SEX, REPRODUCTION AND POPULATION (3)

PR: BSC 2933. 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.*

APB 3110 MAN, MICROBE AND MOLECULE (3)

PR: BSC 2933 or CI. 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.*

BOT 2010C FUNDAMENTALS OF BOTANY (4)

PR: BSC 2010C. Cell division, genetics, reproduction and development, physiology. Lec.-lab.

BOT 4663 INTRODUCTION TO TROPICAL BIOLOGY (4)

PR: 1 year major's Biology or CI. The tropical environment and its effect on plant and animal communities. Plant and animal interactions and man's impact on the environment.

BSC 2010C FUNDAMENTALS OF BIOLOGY (4)

A brief review of living organisms, respiration, photosynthesis, cell structure, and specialization. Lec.-lab.

BSC 2932 SELECTED TOPICS IN BIOLOGY (1-4)

PR: CI. May be repeated.

BSC 2933 TOPICS IN HUMAN BIOLOGY (3)

Lectures, individual reading, movies, classroom discussions, and evaluation of selected biological topics, reflecting biological principles. *For non-majors.*

BSC 3263 INTRODUCTORY MARINE BIOLOGY (3)

PR: 1 year major's Biology or CI. An introduction to 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. Majors and non-majors.

BSC 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 Natural Sciences specifies the regulations governing independent study. May be repeated. (S/U only.)

BSC 4910 UNDERGRADUATE RESEARCH (1-4)

PR: CI. Individual investigation with faculty supervision. (S/U only.)

BSC 4930 SEMINAR IN BIOLOGY (1)

PR: CI. Senior or advanced junior standing. May be repeated once. (S/U only.)

BSC 4933 SELECTED TOPICS IN BIOLOGY (1-3)

PR: CI.

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 3183C HISTOLOGICAL TECHNIQUES (4)

PR: 1 year major's Biology. Theory and practice of tissue fixation, imbedding, sectioning, and staining; chromosomal squash preparations; nuclear isolation techniques; photomicrography. Lec.-lab.

PCB 4023C 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 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 (2)

CR: PCB 3063 or CI. Experimental analysis of genetic systems, Lec.-lab.

PCB 4674 ORGANIC EVOLUTION (3)

PR: PCB 3063 or CI. An introduction to modern evolutionary theory. Lecture on population genetics, adaptations, speciation theory, phylogeny, human evolution and related areas.

ZOO 2010C FUNDAMENTALS OF ZOOLOGY (4)

PR: BSC 2010C. Systematics, behavior patterns, genetics, and evolution, ecology. Lec.-lab.

GRADUATE COURSES

BSC 5931 SELECTED TOPICS IN BIOLOGY (1-3)

PR: CI. Each topic is a course in directed study under supervision of a faculty member.

BSC 6907 INDEPENDENT STUDY (var.)

Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

BSC 6910 DIRECTED RESEARCH (var.)

PR: GR. Master's level. Repeatable. (S/U only.)

BSC 6912 GRADUATE RESEARCH METHODS (1-4)

Special course to be used primarily for the training of graduate research assistants. Variable credit, repeatable. Limited to a cumulative total of 4 credits per student. (S/U only.)

BSC 6932 SELECTED TOPICS IN BIOLOGY (1-4)

PR: CI.

BSC 6935 GRADUATE SEMINAR IN BIOLOGY (1)

PR: CI. (S/U only.)

BSC 6945 GRADUATE INSTRUCTION METHODS (1-3)

Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of 4 credits per student. (S/U only.)

BSC 7912 DIRECTED RESEARCH (var.)

PR: GR. Ph.D. level, Repeatable. (S/U only.)

BSC 7980 DISSERTATION: DOCTORAL (var.)

PR: Must be admitted to Doctoral Candidacy. Repeatable. (S/U only.)

PCB 5115C CYTOGENETICS (3)

PR: PCB 4023C. 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 4023C or CI. 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 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 or CI. 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 4743C. A comparative analysis of the physiochemical basis and evolution of nervous systems and sensory mechanisms.
- PCB 6176C ULTRASTRUCTURE TECHNIQUES IN ELECTRON MICROSCOPY** (4)
PR: PCB 4023C and CI. Discussion of theory and techniques in electron microscopy. Emphasis on preparation of biological specimens, electron microscopic optics and use of the electron microscope. Lec.-lab.
- PCB 6356 TROPICAL ECOLOGY** (2)
PR: PCB 4043C. Graduate Standing or CI. A discussion of a series of related ecological topics to illustrate the features peculiar to the tropics.
- PCB 6426C POPULATION BIOLOGY** (3)
PR: PCB 4043C or CI. Introduction to population dynamics with emphasis on the ecological components of population growth, competition, and predation.
- PCB 6456C BIOMETRY** (3)
PR: MAC 2243 and MAC 2244 or CI. An introduction to statistical procedures for research in the biological sciences. Experimental design, analysis of data, and presentation of results are emphasized. Lec.-dis.

BOTANY

UNDERGRADUATE COURSES

- BOT 3143C FIELD BOTANY** (3)
PR: BOT 2010C or CI. Identification and classification of native and naturalized flowering plants of Florida including historical, climatic and floristic aspects of plant communities. Conducted largely in the field. Lec.-lab.
- BOT 3823C HORTICULTURAL BOTANY** (2)
PR: Course in botany, biology or CI. 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 2010C. Comparative studies of tissue and organ systems of fossil and present-day vascular plants. Functional and phylogenetic aspects stressed. Lec.-lab.
- BOT 4434C MYCOLOGY** (3)
PR: BOT 2010C or CI. A survey of the fungi with emphasis on their taxonomy, morphology, physiology and economic importance. Lec.-lab.
- BOT 4503 PLANT PHYSIOLOGY** (4)
PR: PCB 4023C. Fundamental activities of plants; absorption, translocation, transpiration, metabolism, growth, and related phenomena. Lec.-lab.
- BOT 4713C PLANT TAXONOMY** (4)
PR: BSC 2010C. Identification and classification of the more interesting vascular plants of Florida; angiosperm evolution; principles of taxonomy. Conducted largely in the field. Lec.-lab.
- BOT 4933 SEMINAR IN BOTANY** (1)
PR: Senior or advanced junior standing and CI. May be repeated once. (S/U only.)

GRADUATE COURSES

- BOT 5185 MARINE BOTANY** (3)
PR: BOT 2010C, PCB 4043C or CI. A field course in marine plants with emphasis on ecology and functional morphology. Field work will stress the ecological aspects of plants in a subtropical marine environment in Florida. Lec.-lab.
- BOT 5405C* PHYCOLOGY** (3)
PR: BOT 2010C or CI. A detailed survey of the algae emphasizing both taxonomy and morphology of fresh and marine water forms; field and laboratory investigations, including individual projects. Lec.-lab.

- BOT 5605C* PLANT ECOLOGY** (3)
PR: BOT 2010C, PCB 4043C or CI. Distribution and nature of vegetation in relation to climatic, physiographic, edaphic, and biotic factors: field investigations of subtropical Florida plant communities. Lec.-lab.
- BOT 5725C EVOLUTION OF FLOWERING PLANTS** (3)
PR: BOT 4713C or CI. 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.
- BOT 5938 SELECTED TOPICS IN BOTANY** (1-3)
PR: CI. Each topic is a course in directed study under supervision of a faculty member.
- BOT 6516 PLANT BIOCHEMISTRY** (2)
PR: BOT 4503 or CI. A study of plant metabolism with emphasis on the biosynthetic pathways and their regulation.
- BOT 6516L LABORATORY IN PLANT BIOCHEMISTRY** (3)
PR: BOT 4503 or CI. An intensive exposure to the methods used in experimenting with plant material.
- BOT 6716C BIOCHEMICAL SYSTEMATICS** (4)
PR: BOT 3713C or equivalent. Application of cytology, ecology, genetics, biochemistry, and morphological analysis to the study of evolution and classification of species of higher plants. Lec.-lab.
- BOT 6916 INDEPENDENT STUDY** (var.)
Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)
- BOT 6971 THESIS: MASTER'S** (var.)
Repeatable. (S/U only.)

*Students will be required to pay travel expenses for field trips.

MICROBIOLOGY

UNDERGRADUATE COURSES

- APB 4053C APPLIED AND ENVIRONMENTAL MICROBIOLOGY** (5)
PR: MCB 3010C. A study of the applications of microbiology to industry, agriculture, medicine, and sanitary engineering. Lec.-lab.
- MCB 3010C INTRODUCTION TO 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 3010C. Survey of bacterial classification; detailed examinations of bacteria important to man in agriculture, in industry and as pathogens. Lec.-lab.
- MCB 4404 MICROBIAL PHYSIOLOGY** (4)
PR: MCB 3010C, PCB 4023C or CI. A study of physiological and metabolic phenomena pertinent to the growth, development, regulation, inhibition and death of microorganisms and to the chemical alterations they catalyze. Lec.-lab.
- MCB 4505C VIROLOGY** (3)
PR: MCB 3010C. The biology of viruses associated with plants, animals, and bacteria will be considered; the nature of viruses, mechanisms of viral pathogenesis, and interactions with host cells.
- MCB 4934 SEMINAR IN MICROBIOLOGY** (1)
PR: Senior or advanced junior standing and CI. May be repeated. (S/U only.)

GRADUATE COURSES

- APB 5575C MEDICAL MYCOLOGY** (4)
PR: MCB 3010C or CI. 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 5206 PUBLIC HEALTH AND PATHOGENIC MICROBIOLOGY** (3)
PR: MCB 3010C. 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 5605 MICROBIAL ECOLOGY (4)

PR: MCB 3010C. CI. A study of the theory and methodology of the quantification of microbial processes in natural habitats with special emphasis on aquatic and terrestrial systems. Lec.-lab.

MCB 5936 SELECTED TOPICS IN MICROBIOLOGY (1-3)

PR: CI. Each topic is a course in directed study under supervision of a faculty member.

MCB 6459 ADVANCED TOPICS IN CHEMICAL MICROBIOLOGY (2)

PR: MCB 4404, Biochemistry or CI. An in-depth study of metabolic and physiological phenomena associated with microorganisms, especially bacteria, including: growth, regulations, unique metabolic traits, morphogenesis, cell division, cell death and survival mechanisms.

MCB 6919 INDEPENDENT STUDY (var.)

Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

MCB 6971 THESIS: MASTER'S (var.)

Repeatable. (S/U only.)

PCB 6236 ADVANCED IMMUNOLOGY (4)

PR: CI. Discussion of the basic immune reaction, nature of antigenicity, basic immunological techniques and their use in biological research and the medical sciences. Lec.-lab.

PCB 6606 BACTERIAL GENETICS (3)

PR: MCB 4404, PCB 3063 or CI. A survey of the recombinational systems found among the bacteria and bacterial viruses with emphasis on the molecular mechanisms of gene transfer, replication and expression and on the significance of these systems for our understanding of cellular functions.

ZOOLOGY

UNDERGRADUATE COURSES

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.

PCS 3700 HUMAN ANATOMY AND PHYSIOLOGY (5)

PR: BSC 2010C and ZOO 2010C. Lectures and discussions on the structure and function of the human body. Lec.-dis. *For non-majors.*

PCS 4184C HISTOLOGY (4)

PR: ZOO 2010C. Comparative approach to the study of tissues and the relation of their structure and function. Lec.-lab.

PCB 4253C DEVELOPMENTAL BIOLOGY (4)

PR: PCB 4023C. Structural and functional events involved in differentiation and morphogenesis. Lec.-lab.

PCB 4743C ANIMAL PHYSIOLOGY (4)

PR: PCB 4023C. Advanced presentation of mechanisms employed by animals to interact with their environment and to maintain their organization. (Fall Sem.) Lec.-lab.

ZOO 3203C INVERTEBRATE ZOOLOGY (4)

PR: ZOO 2010C. 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: ZOO 2010C. Anatomy of selected vertebrate types emphasizing evolutionary trends. (Spring Sem.) Lec.-lab.

ZOO 3823C BIOLOGY OF TERRESTRIAL ARTHROPODS (4)

PR: ZOO 2010C. An introduction to the biology of insects, spiders, and centipede and millipede groups. Lectures and laboratories will emphasize anatomy, physiology, behavior, and ecology of these organisms. Field work will be required. Lec.-lab.

ZOO 4503 ANIMAL SOCIAL BEHAVIOR (4)

PR: CI. An introduction to comparative animal behavior (Ethology), with emphasis on communication, social use of space, and behavioral evolution. (Lec.-lab.)

ZOO 4583C PRIMATE SOCIAL BEHAVIOR (3)

PR: ZOO 4503C. An introduction to primate social behavior and behavioral ecology.

ZOO 4893 WILDLIFE AND FISH MANAGEMENT (2)

PR: ZOO 2010C and PCB 4043C. An introduction to the principles of wildlife and fisheries management. Certain methods and techniques utilized in the management of exploited animal species will be introduced. Designed primarily for students interested in the wildlife and fish management profession.

GRADUATE COURSES

ENY 5501 AQUATIC ENTOMOLOGY (3)

PR: ENY 4004. Taxonomy, development, and ecology of aquatic insects with emphasis on local forms. Lec.-lab.

PCB 5306C LIMNOLOGY (4)

PR: CI. An introduction to the physical, chemical, and biological nature of fresh-water environments. Lec.-lab.

PCB 5325C TERRESTRIAL ANIMAL ECOLOGY (3)

PR: PCB 4043C. Field and laboratory investigations of the basic principles of ecology as applied to terrestrial animals. Lec.-lab.

PCB 5725C. COMPARATIVE PHYSIOLOGY (4)

PR: PCB 4023C. The evolution of physiological mechanisms. Lec.-lab.

PCB 6376C PHYSIOLOGICAL ECOLOGY (4)

PR: CI. Effect of environmental factors on animal function at the cellular and organ system level with emphasis on control and mechanism. Lec.-lab.

PCB 6756 COMPARATIVE METABOLISM (2)

PR: PCB 4023C and BCH 3033. Some knowledge of Animal Phylogeny will be assumed. A presentation of various metabolic pathways found in invertebrate animals including specializations related to parasitism and facultative anaerobiosis.

PCB 6816 COMPARATIVE ENDOCRINOLOGY (3)

PR: PCB 5725C or CI. An analysis of the similarities and differences between the hormonal mechanisms of mammals, other vertebrates, and invertebrates. Lecture only.

ZOO 5235C PARASITOLOGY (4)

PR: ZOO 2010C. Fundamentals of animal parasitology and parasitism, the biology of selected animal parasites, including those of major importance to man. Lec.-lab.

ZOO 5425 HERPETOLOGY (4)

PR: ZOO 3713C or 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 5455C ICTHYOLOGY (4)

PR: ZOO 3713C or CI. Systematics of fishes, including major classification, comparative anatomy, embryology, and general distribution. Lec.-lab. (Also offered under Marine Science.)

ZOO 5475C ORNITHOLOGY (4)

PR: ZOO 2010C. The biology of birds. Field trips emphasize local avifauna. Lec.-lab.

ZOO 5485C MAMMALOLOGY (4)

PR: ZOO 3713C or CI. The biology of mammals, including systematics, ecology, natural history, and geographical distribution. 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.

ZOO 5815C BIOGEOGRAPHY (3)

PR: One year major's Biology. Principles and general patterns of terrestrial and marine animal and plant distributions.

ZOO 5926 SELECTED TOPICS IN ZOOLOGY (1-3)

PR: CI. Each topic is a program in directed study under supervision of a faculty member.

ZOO 6506C ADVANCED ANIMAL BEHAVIOR (3)

PR: ZOO 4503C and CI. Recent advances in comparative animal behavior (ethology). Lec.-lab.

ZOO 6616C EXPERIMENTAL EMBRYOLOGY (3)

PR: PCB 4253C and CI. Lectures, laboratories, readings and discussions relating to contemporary advances in the area of biochemistry of development. Experimental techniques will be studied. Lec.-lab.

ZOO 6907 INDEPENDENT STUDY (var.)

Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

ZOO 6971 THESIS: MASTER'S (var.)

Repeatable. (S/U only.)

CHEMISTRY

Chairperson: J. C. Davis; *Graduate Research Professor:* R. J. Castle; *Professors:* J. S. Binford, R. S. Braman, J. C. Davis, J. E. Fernandez, G. R. Jurch, D. F. Martin, P. C. Maybury, E. D. Olsen, T. C. Owen, D. J. Raber, S. W. Schneller, T. W. G. Solomons, B. Stevens, R. D. Whitaker, J. H. Worrell; *Professor Emeritus:* T. A. Ashford; *Associate Professors:* M. D. Johnston, J. A. Stanko, W. E. Swartz, J. O. Tsokos, J. E. Weinzierl, G. R. Wenzinger; *Assistant Professors:* G. M. Carlson, S. H. Grossman, R. M. O'Malley, S. L. Vantor; *Courtesy Professors:* J. Barltrop, R. Davis, J. Hsu; *Courtesy Associate Professors:* J. Palmer, H. Samis; *Courtesy Assistant Professor:* B. Martin; *Courtesy Lecturer:* J. J. Kolfenbach, *Other Faculty:* P. Dooris.

UNDERGRADUATE COURSES

- BCH 3033 INTRODUCTORY BIOCHEMISTRY** (3)
PR: CHM 3200 or CHM 3211. Introduction to the chemistry and intermediary metabolism of biologically important substances. Lec.
- BCH 3033L BASIC BIOCHEMISTRY LABORATORY** (2)
PR: BCH 3033. Practical work in determination and characterization of important biomolecules. Lec.-lab.
- CHM 1015 FOUNDATIONS OF UNIVERSITY CHEMISTRY** (3)
A survey of modern chemistry designed particularly for those with a poor preparation in algebra and/or chemistry as a preliminary to CHM 2045. Lec.
- CHM 2030 INTRODUCTION TO GENERAL, ORGANIC AND BIOCHEMISTRY I** (3)
PR: Placement exam* or CHM 1015. 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 2045 GENERAL CHEMISTRY I** (3)
CHM 2045 students are expected to have performed well in the placement exam* or to have satisfactorily completed CHM 1015. Fundamentals of chemistry; mass and energy relationships in chemical changes, equilibrium, chemical kinetics, atomic and molecular structure, descriptive chemistry of selected elements. Lec.-dis.
- CHM 2045L GENERAL CHEMISTRY I LABORATORY** (1)
CR: CHM 2045. 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 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 2055C GENERAL AND ANALYTICAL CHEMISTRY I*** (5)
PR: Placement test and CI. Fundamentals of general chemistry excluding most of solution chemistry. Equivalent to CHM 2045 and parts of CHM 2046. Lec.-lab.
- CHM 2056C GENERAL AND ANALYTICAL CHEMISTRY II** (5)
PR: CHM 2055C with "C" or better. Solution chemistry and fundamentals of elementary analytical chemistry. With CHM 2055C equivalent to CHM 2045, 2045L, 2046, 2046L, and 3120C.
- CHM 2932 SELECTED TOPICS** (1-6)
PR: CI.
- CHM 3020 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 3120C ELEMENTARY ANALYTICAL CHEMISTRY** (4)
PR: CHM 2046, CHM 2046L, or CHM 2055C. 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** (3)
PR: CHM 2046, CHM 2046L, CHM 2056C. Fundamental principles of organic chemistry. Lecture.
- CHM 3210L ORGANIC CHEMISTRY LABORATORY I** (2)
CR: CHM 3210. Laboratory portion of Organic Chemistry I. Introduction of organic laboratory principles and techniques.
- CHM 3211 ORGANIC CHEMISTRY II** (3)
PR: CHM 3210 or equivalent. Continuation of organic chemistry. Lecture.
- CHM 3211L ORGANIC CHEMISTRY LABORATORY II** (2)
PR: CHM 3210L, CR: 3211. Continuation of organic chemistry laboratory.
- CHM 3400 ELEMENTARY PHYSICAL CHEMISTRY I** (3)
PR: CHM 2046, CHM 2046L, or CHM 2056C, MAC 2044, MAC 2243, PHY 2051, PHY 2052, PHY 2051L. Introduction to the 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)
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, or CHM 2056C. Fundamental principles of inorganic chemistry. Lec.-lab.
- CHM 4060 USE OF THE CHEMICAL LITERATURE** (1)
Discussions and assignments using abstracts, bibliographies, indices, encyclopedias, journals, patent files, 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: CHM 2046; 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 BASIC BIO-ORGANIC CHEMISTRY** (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 3412, and PHY 2052 or PHY 3042. Thermodynamics, the states of matter, solutions. Lec.
- CHM 4411 PHYSICAL CHEMISTRY II** (3)
PR: CHM 4410. 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 4410 or CI. An advanced theoretical treatment of inorganic compounds. Lec.
- CHM 4905 INDEPENDENT STUDY** (1-3)
PR: CI. Specialized independent study determined by the student's

*Placement examination for admission to CHM 2045 and CHM 2055C offered the first day of registration each semester, during the summer FOCUS program, and is available during weeks of scheduled classes. Students should consult registration schedules or chemistry office for time and place.

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.)

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.)

CHS 4100C RADIOCHEMISTRY (3)

PR: CHM 3120. Theory and applications 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. (Sem. I)

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. CH 4300 must be taken concurrently. Lec.-lab.

CHS 4302 CLINICAL CHEMISTRY PRACTICE (2-8)

PR: CI. Laboratory practice in clinical chemistry laboratories in the Tampa Bay area. (S/U only.)

CHS 4310C INSTRUMENTAL ANALYSIS (5)

PR: CHM 4412 or CI. Theory and practice of instrumental methods of chemical analysis. Lec.-lab.

GRADUATE COURSES

BCH 5065 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.

BCH 6066 GENERAL BIOCHEMISTRY I (4)

PR: BCH 5065 or CI. First semester of a rigorous two-semester general biochemistry course for chemistry and biology graduate students whose primary interests are in this field. Lec.

BCH 6067 GENERAL BIOCHEMISTRY II (4)

PR: BCH 6066. Continuation of General Biochemistry I. Lec.

BCH 6506 ADVANCED BIOCHEMISTRY I. ENZYMES (3)

PR: BCH 6067 or CI. A study of biochemical systems with emphasis on enzymes. Lec.

BCH 6706 ADVANCED BIOCHEMISTRY II. BIOORGANIC MECHANISMS (3)

PR: BCH 6067 or CI. A study of biochemical systems with emphasis on mechanisms of biological reaction. Lec.

BCH 6746 ADVANCED BIOCHEMISTRY III. BIOPHYSICAL CHEMISTRY (3)

PR: BCH 6067 or CI. A study of biochemical systems with emphasis on physical methods of experimentation and interpretation. Lec.

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 5425 APPLICATIONS IN PHYSICAL CHEMISTRY (3)

PR: CHM 4412. Applications of chemical theory to chemical systems.

CHM 5430 CHEMICAL THERMODYNAMICS (3)

PR: CHM 4412 or CI. The applications of thermodynamic theory to the study of chemical systems with emphasis on the energetics of reactions and chemical equilibria. Lec.

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 SELECTED TOPICS IN CHEMISTRY (1-3)

PR: CI. The following courses are representative of those that are taught under this title: Natural Products, Stereochemistry, Reactive Intermediates, Photochemistry, Instrumental Electronics, Advanced Lab Techniques, Heterocyclic Chemistry, etc.

CHM 6150 ADVANCED ANALYTICAL CHEMISTRY (3)

PR: CI. A study of complete analytical process, including sample handling, separations, the analysis step, and statistical interpretation of data. Emphasis placed on separations and statistics. Lec.

CHM 6153 ELECTROCHEMISTRY (3)

PR: CI. Introduction to the theory of ionic solutions and electrode processes. Theory and applications and electrochemical measurements. Lec.

CHY 6250 ADVANCED ORGANIC CHEMISTRY I. SYNTHESIS (3)

PR: CHM 5225. Detailed consideration of modern synthetic methods. Lec.

CHM 6260 ADVANCED ORGANIC CHEMISTRY II. PHYSICAL-ORGANIC (3)

PR: CHM 5225. A study of organic reaction mechanisms emphasizing the interpretation of experimental data. Lec.

CHM 6280 ADVANCED ORGANIC CHEMISTRY III. NATURAL PRODUCTS (3)

PR: CHM 5225 or CI. A study of any of several of the following topics; terpenes, steroids, vitamins, alkaloids, porphyrins, purine, and antibiotics.

CHM 6440 CHEMICAL KINETICS (3)

PR: CI. Theory and methods for the study of reaction rates and the elucidation of reaction mechanisms. Lec.

CHM 6460 STATISTICAL THERMODYNAMICS (3)

PR: CI. Application of statistical mechanics to thermodynamics, the relation of molecular structure to thermodynamic properties. Lec.

CHM 6480 QUANTUM CHEMISTRY (3)

PR: CI. Introduction to elementary quantum mechanism. Atomic structure and spectra. Lec.

CHM 6625 CHEMISTRY OF THE LESS FAMILIAR ELEMENTS (3)

PR: CI. An integrated treatment of the conceptual and factual aspects of the traditionally less familiar elements, including noble gas elements, unfamiliar non-metals, alkali and alkaline-earth metals and the transition elements. Lec.

CHM 6650 STRUCTURAL INORGANIC CHEMISTRY (3)

PR: CHM 5621 or CI. Modern theories of bonding and structure of inorganic compounds, including coordination theory, stereochemistry, solution equilibria, kinetics, mechanisms of reactions, and use of physical and chemical methods. Lec.

CHM 6907 INDEPENDENT STUDY (var.)

Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

CHM 6935 GRADUATE SEMINARS IN CHEMISTRY (1)

PR: Admission to graduate program in chemistry. Required every semester (when offered) for all students enrolled in chemistry graduate program. Requires participation in an attendance at the weekly departmental seminar. Must be repeated. (S/U only.)

CHM 6936 CHEMISTRY COLLOQUIUM (1)

PR: Admission to graduate program in chemistry. Frequent (usually weekly) small-group analysis of current developments. May be repeated up to a cumulative total of 10 hours. (S/U only.)

CHM 6938 SELECTED TOPICS IN CHEMISTRY (1-3)

PR: CI. The following titles are representative of those that are taught under this title: Symmetry and Group Theory, Photochemical Kinetics, Quantum Mechanical Calculations, Advanced Chemical Thermodynamics, Reaction Mechanisms, Advanced Instrumentation, Separations and Characterizations, Spectroscopy, etc.

CHM 6946 GRADUATE INSTRUCTION METHODS (1-4)

Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of 5 credits per student. (S/U only.)

CHM 6947 GRADUATE RESEARCH METHODS (1-4)

Special course to be used primarily for the training of graduate research assistants. Variable credit, repeatable. Limited to a cumulative total of 5 credits per student. (S/U only.)

CHM 6971 THESIS: MASTER'S (var.)

Repeatable. (S/U only.)

CHM 6973 DIRECTED RESEARCH (var.)

PR: GR. Master's level. Repeatable. (S/U only.)

CHM 7820 DIRECTED RESEARCH (var.)

PR: GR. Ph.D. level. Repeatable. (S/U only.)

CHM 7980 DISSERTATION: DOCTORAL (var.)

PR: Must be admitted to Doctoral Candidacy. Repeatable. (S/U only.)

GEOLOGY

Chairperson: R. A. Davis, Jr.; *Professors:* R. A. Davis, Jr., W. J. Ragan, A. Rosenzweig; *Associate Professors:* M. T. Stewart, R. N. Strom, S. B. Upchurch; *Assistant Professor:* A. W. Ritchie.

UNDERGRADUATE COURSES

- 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 3006 GEOLOGY OF OUR NATION'S PARKS** (3)
Representative parks used to illustrate current concepts in geology. For the non-science student. *No credit to geology majors.*
- GLY 3400 STRUCTURAL GEOLOGY** (4)
PR: 12 hours of geology, MAC 1104 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 PRINCIPLES OF INVERTEBRATE PALEONTOLOGY** (4)
PR: GLY 2100 or CI. Emphasis on morphology and habits of fossil invertebrate groups as they evolved through geologic time. Comparisons with modern examples or similar organisms. Stratigraphic distribution of major groups. Lec.-lab.
- GLY 3820 INTRODUCTION TO HYDROGEOLOGY** (4)
PR: Eight hours of geology, MAC 1104 or equivalent, or CI. Occurrence, circulation and distribution of subsurface water, its chemical and physical properties, relation to the geologic environment, exploration and development. Lec.-field-lab.
- GLY 4200 MINERALOGY-PETROLOGY I** (4)
PR: Physical Geology, one year of chemistry and college trigonometry or equivalent or CI. Principles of crystal chemistry, crystallography and mineralogy with emphasis on common rock-forming minerals. Lec.-lab.
- GLY 4220 MINERALOGY-PETROLOGY II** (5)
PR: GLY 4200 or CI. Theory and use of polarized light microscopy as a means of mineral identification. Special emphasis is placed on the identification of igneous and metamorphic rocks in hand specimen and thin section. Lec.-lab.
- GLY 4511 PRINCIPLES OF STRATIGRAPHY** (4)
PR: GLY 4550. Emphasis on classical principles of litho- and biostratigraphy, stratigraphic nomenclature, development of stratigraphic philosophy, and paleogeographic reconstruction of sedimentary basins. Emphasis on applications to petroleum exploration. Lec.-lab.
- GLY 4550 DEPOSITIONAL SYSTEMS** (3)
PR: GLY 2016, GLY 2100 or equivalent. Study of modern sedimentary environments and their relationships to one another in order to understand environments preserved in the rock record. Physical, chemical, and biological aspects of terrestrial, transitional and marine sedimentary environments will be examined in light of their eventual preservation in rocks.
- 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 SURFICIAL GEOLOGY** (4)
PR: Senior or advanced junior standing and CC. Origin, evolution and distribution of land forms and soils. Dynamics of the earth's surface. Lec.-lab.

- 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 of aerial photos, reconnaissance surveys, interpretation of geologic structure. Lec.-lab.-field trips.
- 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 4905 INDEPENDENT STUDY** (1-3)
PR: CI. Specialized independent study determined by the students' 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.
- OCE 3001 INTRODUCTION TO OCEANOGRAPHY** (3)
Topics in biological, chemical, geological, and physical oceanography presented in lectures by a number of specialists in these fields. (Also listed under Marine Science.)

GRADUATE COURSES

- GLY 5241 GENERAL GEOCHEMISTRY** (3)
PR: One year college chemistry, GLY 4200 or CI. Age, formation and evolution of the earth with application of basic chemical concepts and processes that govern the distribution of elements in geologic environments.
- 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 or advanced junior standing, one year of Physics or CI. Elementary treatment of gravimetric, magnetic, electric, and seismic geophysical techniques as applied to site investigations and mineral deposits. lec.-lab.-field trips.
- GLY 5615 ADVANCED STRATIGRAPHIC PALEONTOLOGY** (3)
PR: GLY 3610, GLY 4550 or CI. Morphology, geologic distribution, and stratigraphic ranges of important invertebrate guide fossils. Lec.-lab.-field trips.
- GLY 5825 ADVANCED HYDROGEOLOGY** (4)
PR: GLY 3820, MAC 3282 or MAC 3412 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.-lab.-field trips.
- 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.
- GLY 6250 CLAY MINERALOGY** (3)
PR: Graduate standing in geology or CI. Composition, structures, origin, and diagenesis of clay minerals. Identification of clay minerals

by X-ray diffraction techniques.

- GLY 6290 SEDIMENTARY GEOCHEMISTRY** (3)
PR: GLY 5241 or CI. Fundamentals of aqueous geochemistry in relation to chemical and biochemical precipitation of sedimentary materials. Geochemistry of fluids with emphasis on diagenesis.
- GLY 6345 SEDIMENTARY PETROGRAPHY** (4)
Classification, petrographic description and interpretation of sedimentary rocks including depositional environments and diagenesis. Lec.-lab.
- GLY 6410 GEOLOGY OF NORTH AMERICA** (2)
PR: Graduate standing or CI. Regional structure, stratigraphy, and history of North America.
- GLY 6420 GLOBAL TECTONICS** (2)
PR: Graduate standing or CI. Development of the global tectonic hypothesis, modern global tectonic theory, and application of the theory in selected regions of the earth.
- GLY 6575 COASTAL SEDIMENTATION** (3)
PR: GLY 4555 or equivalent. Study of modern coastal sedimentary environments with emphasis on beaches, inlets, deltas, estuaries, and marshes. Analysis of sedimentary process and resulting morphology of sediment bodies. Lec.-lab.-field trips.
- GLY 6660 MARINE PALEOECOLOGY** (3)
PR: GLY 3610, GLY 4555 or CI. Interpretation of the relationships between ancient organisms and their environment with emphasis on the substrate. Applications of modern benthic marine environments and sediment-organism relationships to fossil record. Lec.-field trips.
- GLY 6735 SELECTED TOPICS IN GEOLOGY** (1-4)
PR: CI. May be repeated for credit.
- GLY 6905 INDEPENDENT STUDY** (var.)
Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)
- GLY 6910 DIRECTED RESEARCH** (var.)
PR: GR. Master's level. Repeatable. (S/U only.)
- GLY 6931 GRADUATE SEMINAR** (1)
PR: CC. May be repeated for credit. (S/U only.)
- GLY 6933 ADVANCED TOPICS IN GEOLOGY** (2)
PR: Graduate standing in Geology. Study of current topics in Geology. Required of all graduate students in Geology. May be repeated for credit.
- GLY 6971 THESIS: MASTER'S** (var.)
Repeatable. (S/U only.)

MARINE SCIENCE

Chairperson: W. M. Sackett; *Professors:* P. R. Betzer, J. C. Briggs, K. L. Carder, L. J. Doyle, R. M. Garrels, T. L. Hopkins, H. J. Humm, W. M. Sackett; *Visiting Professor:* Albert D. Kirwan; *Associate Professors:* N. J. Blake, K. A. Fanning, G. R. Gust; *Assistant Professors:* D. F. Belknap, R. H. Byrne, A. C. Hine, J. C. Steinmetz, J. J. Torres, E. S. Van Vleet, G. A. Vargo; *Courtesy Professors:* R. A. Davis, Charles W. Holmes; *Courtesy Associate Professors:* R. C. Baird; *Courtesy Assistant Professors:* L. A. Freeberg, G. E. Rodrick; *Courtesy Lecturer:* S. Schott; *Other Faculty:* W. W. Behrens, Jr.

UNDERGRADUATE COURSES

- OCE 3001 INTRODUCTION TO OCEANOGRAPHY** (3)
Topics in biological, chemical, geological, and physical oceanography presented in lectures by a number of specialists in these fields. (Also listed under Geology.)

GRADUATE COURSES

- OCB 5050 BIOLOGICAL OCEANOGRAPHY** (3)
PR: Graduate standing of CI, BSC 2010C, BSC 2011C, BSC 2012. The study of life in the sea with reference to distribution, reproduction, adaptation, competition, and populations. Lec.-lab. For students who have not majored in a biological science.
- OCB 6671 METHODS IN BIOLOGICAL OCEANOGRAPHY** (1)
PR: CI. To acquaint students with field and laboratory equipment and techniques currently used in biological oceanography. Emphasis will be on field problems especially those requiring research at sea.
- OCC 5050 CHEMICAL OCEANOGRAPHY** (3)
PR: CHM 2047 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.

OCC 6057 METHODS IN CHEMICAL

OCEANOGRAPHY

- (1)
PR: OCC 5050 or CI. An intensive study of the use and limitations of field and laboratory equipment which is a standard part of chemical oceanographic research into the behavior of dissolved and particulate constituents in seawater.
- OCE 5085 MARINE POLICY** (2)
PR: OCE 3001 or CI. Course explores marine problems and their impact on society. Topics of interest include financing and organization of marine science; regulation (local, state, and Federal) of uses of marine waterways, and the sea; political, social, and legal problems associated with marine pollution and the recovery and development of marine resources, conservation and public decision-making in the marine sphere.
- OCE 5934 SELECTED TOPICS IN OCEANOGRAPHY** (1-3)
PR: CI. Special topics in biological, chemical, geological, and physical oceanography.
- OCE 6908 INDEPENDENT STUDY** (var.)
Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)
- OCE 6934 SELECTED TOPICS IN OCEANOGRAPHY** (113)
PR: CI. Special topics in biological, chemical, geological, and physical oceanography.
- OCE 6939 GRADUATE SEMINAR IN OCEANOGRAPHY** (1)
PR: Graduate standing. May be repeated. (S/U only.)
- OCE 6942L FIELD STUDIES IN MARINE SCIENCE** (3)
PR: One of the following: OCE 5050, OCE 6671, OCC 5050, OCC 6057, OCG 6075, OCP 5051, OCP 6056, or CI. Combination of classroom study with the collection, analysis, and interpretation of field data to attack specific problems in marine science both for deep sea and nearshore environments.
- OCE 6971 THESIS: MASTER'S** (var.)
Repeatable. (S/U only.)
- OCE 6972 DIRECTED RESEARCH** (var.)
PR: G. Master's level. Repeatable. (S/U only.)
- OCG 5050 GEOLOGICAL OCEANOGRAPHY** (3)
PR: Graduate standing of CI. An introduction to the physical, historical sedimentary, and structural geology of the ocean basins and their borders. Lec.-lab.
- OCG 6075 METHODS IN GEOLOGICAL OCEANOGRAPHY** (1)
PR: OCG 5050 or CI. Description and application of the modern techniques of geology and geophysics used to investigate.
- OCP PHYSICAL OCEANOGRAPHY** (3)
PR: Graduate standing or CI, PHY 3042. The world ocean including its morphology, physical properties, currents, waves, tides, head budget, and related topics. Lec.-lab.
- OCP 6056 METHODS IN PHYSICAL OCEANOGRAPHY** (1)
PR: MAC 3414, OCC 5050 or OCP 5051, and CI. Field and laboratory techniques for acquisition, reduction, display, and discussion of physical oceanographic data (e.g., waves, tides, currents, dissolved and suspended constituents).
- PCB 6476 DYNAMICS OF MARINE BENTHIC COMMUNITIES** (3)
PR: EGN 2210, ZOO 5555C, or CI. Theoretical approach to the study of benthic communities in fluctuating and constant environments. Methods of analysis of benthic data will be evaluated and discussed. Computer programs will be utilized for analysis wherever possible. Lec.-lab.
- ZOO 5456C ICHTHYOLOGY** (4)
PR: CI or senior or graduate status; BSC 2010C, BSC 2012, PCB 4674 (helpful), ZOO 3713C (helpful). The evolution, systematics, and ecology of fishes. (Also listed under Zoology.)

MATHEMATICS

Chairperson: M. N. Manougian; *Distinguished Professor:* A. W. Goodman; *Professors:* W. E. Clark, F. L. Cleaver, A. G. Kartsatos, J. J. Liang, Y. F. Lin, M. N. Manougian, A. Mukherjee, A. N. V. Rao, J. S. Ratti, D. C. Rose, E. B. Saff, N. A. Tserpes, C. P. Tsokos; *Professor*

Emeritus: J. R. Britton; *Associate Professors:* S. M. Isaak, J. E. Kelley, SL J. Lee, S. Y. Lin, M. M. McWaters, G. J. Michaelides, R. K. Nagle, K. L. Pothoven, J. H. Reed, A. D. Snider, E. A. Thieleker, C. A. Williams, F. Zerla; *Assistant Professors:* M. G. Blake, M. E. Parrott, W. E. Williams.

UNDERGRADUATE COURSES

COP 3215 COMPUTER APPLICATIONS OF MATHEMATICS (3)

CR: MAC 3412 or CC. Computer applications to mathematics, especially calculus, with FORTRAN programming.

MAA 4211 ADVANCED CALCULUS I (4)

PR: MAC 3413, with a grade of "C" or better; MHF 3102 and MAS 3103 or CI. Concepts of limit, continuity, differentiation, and integration of functions in one and several variables. Major topics include partial differentiation, Riemann-Stieltjes integrals, improper integrals, infinite series, uniform convergence, implicit-function theorems, line and surface integrals, vector analysis.

MAA 4212 ADVANCED CALCULUS II (4)

PR: MAA 4211. Continuation of MAA 4211.

MAC 1104 COLLEGE ALGEBRA AND TRIGONOMETRY (4)

PR: Two years of secondary school mathematics including one year of algebra or HCC mathematics course MAT 1033, taught on USF campus of CC. Real numbers and their properties, algebraic expressions, equations and inequalities, functions, polynomials, exponential and logarithmic functions. Angles, trigonometric functions, properties and graphs of trigonometric functions, right triangles, laws of sines and cosines, polar coordinates. (No credit for MAC 1104 for students with credit in MAC 2243.)

MAC 1114 COLLEGE TRIGONOMETRY (2)

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 1104.)

MAC 2243 ELEMENTARY CALCULUS I (4)

PR: Pass diagnostic 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 2243-MAC 2244 is primarily for student from Biological Sciences. Social Sciences and Business. (No credit for math majors or students with credit in MAC 1104 or MAC 3281 or MAC 3411.)

MAC 2244 ELEMENTARY CALCULUS II (4)

PR: MAC 2243. 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 3412.)

MAC 3281 ENGINEERING CALCULUS I (3)

PR: Pass diagnostic tests in algebra and trigonometry. Differentiation, limits, differentials, extrema, indefinite integral. (No credit for student with credit in MAC 2243 or MAC 3411.)

MAC 3282 ENGINEERING CALCULUS II (3)

PR: MAC 3281. Definite integral, trigonometric functions, log, exponential, applications. (No credit for students with credit in MAC 2244 or MAC 3412.)

MAC 3283 ENGINEERING CALCULUS III (3)

PR: MAC 3282. Techniques of integration, numerical methods, analytic geometry, polar coordinates, Vector algebra, applications. (No credit for students with credit in MAC 3413.)

MAC 3411 CALCULUS I (4)

PR: MAC 1104, MAC 1114 with a grade of "C" or better or CC. Limits, derivatives, applications. (No credit for students with credit in MAC 2243 or MAC 3281.)

MAC 3412 CALCULUS II (4)

PR: MAC 3411 with a grade of "C" or better or CC. Antiderivatives, the definite integral, applications, log, exponential and trig functions. (No credit for student with credit in MAC 2244 or MAC 3282.)

MAC 3413 CALCULUS III (4)

PR: MAC 3412 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 4401 NUMERICAL ANALYSIS (4)

PR: MAC 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.

tions, computer techniques.

MAP 4302 DIFFERENTIAL EQUATIONS (3)

PR: MAC 3413. First order linear and nonlinear differential equations, higher order linear equations, applications.

MAS 3103 LINEAR ALGEBRA (3)

PR: MAC 3411 or CC. Vectors, matrices, systems of linear equations, linear transformations.

MAS 4156 VECTOR ANALYSIS (2)

PR: MAC 3413. The algebra and calculus of vectors, applications, general coordinates, introduction to tensor analysis. (No credit for both MAA 4211 and MAS 4156.)

MAS 4301 ELEMENTARY ABSTRACT ALGEBRA (3)

PR: MHF 3102 or CC. Groups, rings, integral domains, fields, integers, the rational, real, and complex number systems.

MAT 4906 INDEPENDENT STUDY (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 (1-4)

PR: CI. The course content will depend on the interest of faculty members and student demand.

MGF 2119 COLLEGE MATHEMATICS (3)

PR: Passing score on diagnostic test. Students should have the equivalent of two years high school math including 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.

MGF 2120 FINITE MATHEMATICS (3)

PR: Passing score on diagnostic 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 of linear equations, linear programming, introduction to statistics, introduction to probability.

MHF 3102 SET THEORY (3)

PR: MAC 3411 or CC. Relations, functions, order, cardinal numbers.

MTG 3204 INFORMAL GEOMETRY (3)

Concepts of length, congruence, similarity, transformations in the plane, ruler and compass constructions, impossible constructions, coordinate systems, graphs, lines and curves. (Open only to Elementary Education majors)

MTG 4212 GEOMETRY (4)

PR: MAC 3411. Emphasis on axiomatics, advanced Euclidean geometry, elements of projective geometry, non-Euclidean geometries.

STA 3023 INTRODUCTORY STATISTICS I (4)

Hypothesis testing, estimation; normal, Chi-square, t, F, binomial, multinomial, distributions; ANOVA, CR, RCB designs; single df, regression, correlation, contingency tables. Students who successfully complete this course may not also receive credit for either ECO 4402 and GEB 3121 or STA 3122. (No credit for Mathematics Majors.)

STA 3024 INTRODUCTORY STATISTICS II (3)

PR: STA 3023 or CC. Factorials, ANCOV; multiple curvilinear regression; response surfaces; Latin square, Split Plots, incomplete blocks designs; distribution free methods.

STA 3404 ELEMENTARY PROBABILITY (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 (3)

PR: STA 4442. Basic statistical methods. Estimation, hypothesis testing, regression, ANOVA, and nonparametric methods.

STA 4442 INTRODUCTION TO PROBABILITY (3)

PR: MAC 3413, MHF 3102. Introduction to probability theory using calculus. Basic ideas of probability and random variables, discrete probability functions, continuous probability densities including normal, gamma, x^2 , and Weibull, and transformations of random variables.

GRADUATE COURSES

MAA 5306 REAL ANALYSIS I (3)

PR: MAC 3413 and MHF 3102. Continuity, differentiation and derivatives, sequences and series of functions, convergence.

MAA 5307 REAL ANALYSIS II (3)

PR: MAA 5306. Continuation of MAA 5306.

- MAA 5402 COMPLEX ANALYSIS I** (3)
PR: MAA 4211. Complex numbers, analytic functions and mappings, integrals.
- MAA 5403 COMPLEX ANALYSIS II** (3)
PR: MAA 5402. Power series, residues and poles, conformal mappings.
- MAA 5405 APPLIED COMPLEX ANALYSIS** (3)
Complex numbers, analytic and harmonic functions. Series. Contour integrals, residue theory. Conformal mappings. (A survey course emphasizing techniques and applications.) (No credit for student with credit in MAA 5402 and MAA 5403.)
- MAA 6406 COMPLEX ANALYSIS I** (3)
PR: MAA 5403. Theory of univalent and multivalent functions. Entire functions, Riemann surfaces, Approximation Theory in the Complex domain.
- MAA 6407 COMPLEX ANALYSIS II** (3)
PR: MAA 6406. Continuation of MAA 6406.
- MAA 6516 INTRODUCTION TO FUNCTIONAL ANALYSIS I** (3)
PR: MAA 6616. Linear Topological Spaces, normed linear spaces. Hahn-Banach Theorem, theorems on linear operators, dual spaces.
- MAA 6517 INTRODUCTION TO FUNCTIONAL ANALYSIS II** (3)
PR: MAA 6516. Continuation of MAA 6516.
- MAA 6616 MEASURE AND INTEGRATION I** (3)
PR: MAA 5307. Abstract measure and integration in sigma rings, Applications to Euclidean spaces, Fubini's Theorem, Radon Nikodym Theorem, L_p spaces.
- MAA 6617 MEASURE AND INTEGRATION II** (3)
PR: MAA 6616. Continuation of MAA 6616.
- 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.
- MAD 6407 ANALYSIS OF NUMERICAL METHODS** (4)
PR: MAA 4212 or MAA 5307, MAP 4302, MAS 3103; or CC. Iterative solution of nonlinear equations. Approximation theory. Numerical differentiation and integration. Solution of ordinary and partial differential equations. Accuracy, convergence, and round-off error.
- MAD 6510 ANALYSIS OF ALGORITHMS** (4)
PR: MAD 4401 or MAD 6407. Mathematical theory associated with algorithms for computer information processing; expected time and space requirements of algorithms, comparison of algorithms, construction of optimal algorithms, theory, underlying particular algorithms.
- MAD 6616 ALGEBRAIC AUTOMATA THEORY** (3)
PR: MAS 5312 or CC. Algebraic automata theory.
- MAD 6617 ALGEBRAIC CODING THEORY** (3)
PR: MAD 6616 or CC. Algebraic coding theory.
- MAE 5874 ABSTRACT ALGEBRA FOR TEACHERS** (2)
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 5876 MATHEMATICAL ANALYSIS FOR TEACHERS** (4)
PR: MAC 3413 and bachelor's degree or CC. Advanced consideration of limits continuity, derivatives, differentials. (No credit for Mathematics majors.)
- MAP 5205 MATHEMATICAL OPTIMIZATION THEORY I** (3)
PR: MAS 3103. Review of matrix algebra. Theory of linear inequalities, polyhedral convex sets and duality. Theory of linear programming. Simplex method. Variants of the simplex method. Parametric programming. Applications.
- MAP 5316 INTERMEDIATE DIFFERENTIAL EQUATION I** (3)
PR: MAP 4302, MAS 3103 or CC. Power Series solutions, method of Frobenius. Existence and uniqueness theory. Linear Systems. Sturm-Liouville Theory.
- MAP 5317 INTERMEDIATE DIFFERENTIAL EQUATION II** (3)
PR: MAP 5316. Topics selected from oscillation and comparison theorems, stability and asymptotic behavior, perturbation theory, nonlinear theory, special functions.
- MAP 5345 APPLIED PARTIAL DIFFERENTIAL EQUATIONS** (3)
PR: MAP 4302 and CC. 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 and CC. Sturm-Liouville Theory, Green's functions, integral equations, eigenvalue problems, diagonalization of matrices. Mathematical techniques for scientist and engineers.
- MAP 6206 MATHEMATICAL OPTIMIZATION THEORY II** (3)
PR: MAP 5205 or CC. Theory of nonlinear programming. Convexity, duality, and optimality criteria. Convergence of solution algorithms. Unconstrained optimization and search techniques.
- MAP 6336 THEORY OF ORDINARY DIFFERENTIAL EQUATIONS** (4)
PR: MAP 5316 or MAP 5407 or CC. Advanced topics selected from: existence and uniqueness theory, singularity theory, asymptotics and stability, eigenfunctions, perturbations, topological methods.
- MAP 6356 PARTIAL DIFFERENTIAL EQUATIONS** (4)
PR: MAP 5345 or CC. Classification of second order equations, Cauchy problems, Dirichlet and Neumann problems, mixed problems, properties of solutions.
- MAP 6375 NUMERICAL TECHNIQUES FOR PARTIAL DIFFERENTIAL EQUATIONS** (3)
PR: MAP 5345 and MAD 6407. Finite differences and finite element methods. Convergence, stability accuracy. Variational techniques. Acceleration methods. Shocks.
- MAS 5146 ADVANCED LINEAR ALGEBRA** (3)
PR: MAS 3103, MHF 3102, or CC. Vector spaces, linear independence, dimensions, matrices, linear transformations.
- MAS 5215 NUMBER THEORY** (3)
PR: CC. Congruences, quadratic residues, selected topics.
- MAS 5311 ALGEBRA I** (3)
PR: MAC 3413, MAS 5146, MHF 3102. An introduction to group theory.
- MAS 5312 ALGEBRA II** (3)
PR: MAS 5311. An introduction to Galois theory.
- 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.
- MAT 6908 INDEPENDENT STUDY** (var.)
Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)
- MAT 6911 DIRECTED RESEARCH** (var.)
PR: GR. Master's level. Repeatable. (S/U only.)
- MAT 6915 GRADUATE RESEARCH METHODS** (1-4)
Special course to be used primarily for the training of graduate research assistants. Variable credit, repeatable. Limited to a cumulative total of 5 credits per student. (S/U only.)
- MAT 6932 SELECTED TOPICS** (1-4)
PR: CC. 01-Topology, 02-Analysis, 03-Algebra, 04-Applied Mathematics, 05-Graph Theory, 06-Number Theory, 07-Mathematics for Physics, 08-Probability, 09-Statistics, 10-Complex Analysis.
- MAT 6939 GRADUATE SEMINAR** (1-4)
Direction of this seminar is by a faculty member. Students are required to present research papers from the literature. (S/U only.)
- MAT 6971 THESIS: MASTER'S** (var.)
Repeatable. (S/U only.)
- MAT 7912 DIRECTED RESEARCH** (var.)
PR: GR. Ph.D. level. Repeatable. (S/U only.)
- MAT 7980 DISSERTATION: DOCTORAL** (var.)
PR: Must be admitted to Doctoral Candidacy. Repeatable. (S/U only.)
- MHF 5302 ELEMENTARY MATHEMATICAL LOGIC** (3)
PR: CC. Truth tables, tautologies, quantifiers, rules of inference, informal proofs in mathematics.
- MHF 6306 LOGIC AND FOUNDATIONS** (4)
PR: CC. Propositional calculus, Post's theorem, first order and equality calculi, models, completeness and consistency theorems. Godel's theorem, recursive functions.
- MTG 5316 TOPOLOGY I** (3)
PR: MAC 3413 and MHF 3102. Metric and topological spaces, con-

tinuity, homeomorphisms, connectedness, fundamental group, compact spaces, separation axioms, product spaces.

MTG 5317 TOPOLOGY II (3)

PR: MTG 5316. Continuation of MTG 5316.

MTG 6326 ADVANCED TOPOLOGY (3)

PR: MTG 5317 and CC. Function spaces, compactifications, covering spaces, other topics.

STA 5166 APPLIED STATISTICAL METHODS (3)

PR: STA 4442 and CC. Statistical inference in physical and engineering sciences utilizing sample probability distributions, point and interval estimation and test of significance, 3 lecture periods and 1 lab period.

STA 5167 APPLIED STATISTICAL METHODS II (3)

PR: STA 5166 Applications of analysis of variance and covariance, regression analysis use of χ^2 for contingency tables and goodness of fit procedures. 3 lecture periods and 1 lab period.

STA 5206 STOCHASTIC PROCESS (4)

PR: STA 5447. Basic concepts of stochastic processes, finite Markov chains, random-walks with applications to life sciences and engineering.

STA 5326 MATHEMATICAL STATISTICS (4)

PR: STA 5447. Sample distribution theory, point & interval estimation theory, and theory of hypothesis testing.

STA 5446 PROBABILITY THEORY I (3)

PR: MAA 4212 or MAA 5306. Concepts of probability theory, axioms of probability, random variables, probability distributions and distributions of functions of stochastic variables.

STA 5447 PROBABILITY THEORY II (3)

PR: STA 5446. Concepts of mathematical expectation, moment generating functions, probability generating functions, characteristic functions and limit theory of probability distributions.

STA 5526 NON-PARAMETRIC STATISTICS (4)

PR: STA 5326, CC. Theory and methods of non-parametric statistics, order statistics, tolerance region and their applications.

STA 6208 LINEAR STATISTICAL MODELS (3)

PR: STA 5167 or STA 5326. Distribution theory for linear statistical models. Results applied to multiple regression, polynomial regression, balanced and unbalanced experimental designs, analysis of covariance.

STA 6746 MULTIVARIATE STATISTICAL ANALYSIS (3)

PR: STA 6876. The multivariate normal, estimation of mean vector and covariance matrix, correlation analysis, generalized χ^2 -statistics and testing of the general linear hypothesis.

STA 6876 TIME SERIES ANALYSIS (4)

PR: STA 5326. Basic concepts of the theory and applications of time series analysis to include filtering, forecasting modeling, spectral analysis of univariate realizations with applications.

MEDICAL TECHNOLOGY

Director: E. D. Olsen; *Professors:* E. D. Olsen, W. S. Silver; *Associate Professors:* D. V. Lim, J. R. Linton; *Assistant Professors:* S. H. Grossman, S. L. Vander.

UNDERGRADUATE COURSES

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 4215 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 4216 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 4309 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 4405 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 4545 CLINICAL CHEMISTRY II (4)

PR: Senior standing and acceptance into an approved affiliated hospital. A continuation of MLS 4625C, including procedures required for serology, transfusions, blood preservation, and antibody studies. A hospital internship course for medical technology majors.

MLS 4605C 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.

MLS 4625C 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.

PHYSICS

Chairperson: R. W. Flynn (Acting); *Professors:* S. C. Bloch, S. R. Deans, R. W. Flynn, N. C. Halder, W. D. Jones, H. W. Kendall, N. L. Oleson; *Associate Professors:* J. L. Aubel, H. R. Brooker, R. W. Clapp, Jr., W. H. Kruschwitz, R. W. Mitchell; *Assistant Professor:* R. J. Berkley; *Lecturer:* J. E. Turbeville; *Courtesy Professor:* W. M. Gottschalk.

UNDERGRADUATE COURSES

PHS 3101 MATHEMATICAL ANALYSIS OF PROBLEMS IN MECHANICS AND ELECTRICITY (2)

PR: One year of non-calculus general physics. CR: MAC 3283 or MAC 3413. 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.

PHS 3102 PROBLEMS IN GENERAL PHYSICS I (1)

CR: PHY 3040. 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.

PHS 3103 PROBLEMS IN GENERAL PHYSICS II (1)

CR: PHY 3041. Second semester of sequence PHS 3102, PHS 3103. Semesters: Fall, Spring, Summer.

PHS 4802 ACOUSTICS FOR COMMUNICOLOGY (3)

Non-mathematical study of general wave motion and associated phenomena. Acoustic resonance and response of the ear. Introduction to harmonic analysis of complex wave-forms with application to testing with pure tones and various types of waves, Acoustic instrumentation. (No credit for science majors.) Semesters: Fall, Spring.

PHS 4814 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 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 audio-visual presentations play important roles.

PHY 2050, 2050L GENERAL PHYSICS AND LABORATORY (3:1)

First semester of a two semester sequence of general physics (mechanics, heat, electricity, wave motion, optics, atomic and nuclear physics) and laboratory for science students. Must be taken concurrently and, if dropped, then dropped simultaneously. Semesters: Fall, Spring, Summer.

PHY 2051, 2051L GENERAL PHYSICS AND LABORATORY

(3:1)

PR: PHY 2050, PHY 2050L. 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 3020 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 3040, 3040L GENERAL PHYSICS AND LABORATORY

(3:1)

PR: MAC 3281 or MAC 3411. 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 3041, 3041L GENERAL PHYSICS AND LABORATORY

(3:1)

PR: MAC 3282 or MAC 3412, PHY 3040, PHY 3040L. 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 3123 MODERN PHYSICS

(3)

PR: PHY 3041 or CR: PHS 3101; PR: MAC 3283 or MAC 3413. 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 3223 MECHANICS I

(3)

CR: MAC 3283 or MAC 3413 and either PR: PHY 3040 or CR: PHS 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 3041, MAC 3283 or MAC 3413. Electromagnetic circuits; resistance, capacitance, inductance, direct and alternating current circuits, thermoelectricity, and instrumentation. Laboratory. First semester of sequence PHY 3323C, PHY 4324.

PHY 3424 OPTICS

(4)

PR: PHS 3101 or PHY 3041; CR: MAC 3283 or MAC 3413. Reflection, refraction, dispersion, interference, diffraction, polarization, and laboratory. Fall Semester.

PHY 3822L INTERMEDIATE LABORATORY

(2)

PR: PHS 3101 or PHY 3041 or equivalent. Experiments in modern physics, including the area of atomic, nuclear, solid state and wave phenomena. Fall Semester.

PHY 4224 MECHANICS II

(3)

PR: PHY 3223; CR: MAP 4302. Continuation of PHY 3223. Coupled oscillators and normal modes; moving coordinate systems; Lagrange's and Hamilton's equations; inertia tensor; general rotation of rigid bodies. Spring Semester.

PHY 4324 ELECTRICITY AND MAGNETISM II

(3)

PR: PHY 3323C or CI. CR: MAP 4302. Electrostatic fields, magnetic fields of steady currents, dielectrics and magnetic materials, Maxwell's equations. Second semester of sequence PHY 3323, PHY 4324. Fall Semester.

PHY 4404 HOLOGRAPHY FOR FILM MEDIA

(3)

PR: Junior standing in any major of CC. Practical instruction and laboratory experience in the making of holograms. Qualitative theory of lasers and holography. (For non-majors.) Spring Semester.

PHY 4526 STATISTICAL PHYSICS

(3)

CR: PHY 3123. Statistical approach to thermodynamics and kinetic theory and introduction to statistical mechanics. Fall Semester.

PHY 4604 QUANTUM MECHANICS I

(3)

PR: PHY 3123 or CI. Postulates, Schroedinger'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 Natural 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.

GRADUATE COURSES**PHS 5113 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 and Dirac notation, elements of vector and tensor analysis, matrices, group representations, eigenvalue problems, and variational calculus. Fall Semester.

PHS 5114 METHODS OF THEORETICAL PHYSICS II

(3)

PR: MAP 4302 or CI. Applications of mathematical techniques to classical and modern physics. Elements of complex analysis including conformal mapping and calculus of residues, Fourier analysis, and transform calculus. Spring Semester.

PHS 5304 NUCLEAR PHYSICS

(3)

PR: PHY 4604 or CI. Nuclear forces, nuclear models, nuclear structure, decay, nuclear reactions, and high energy physics. Spring Semester.

PHS 5405 SOLID STATE PHYSICS I

(3)

PR: PHY 3123, 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 PHY 5405, PHS 6426. Spring Semester.

PHS 5505 PLASMA PHYSICS I

(3)

PR: PHY 4324 or CI. Introduction to Boltzmann, magnetohydrodynamic and orbit approaches to plasmas. Longitudinal and electromagnetic waves in plasmas. Collisions and radiation. Instabilities. Fall Semester.

PHS 6136 PHYSICAL APPLICATIONS OF GROUP THEORY

(3)

PR: PHS 5114 or CI. Introduction to the theory of Lie Groups and Lie Algebras; applications to atomic and molecular physics, solid state physics, nuclear physics, classical physics, and elementary particle physics. (Offered alternate years.)

PHS 6204 ATOMIC AND MOLECULAR SPECTRA

(3)

PR: PHY 4604 or CI. Quantitative study of atomic and molecular structure and spectra. Spring Semester.

PHS 6426 SOLID STATE PHYSICS II

(3)

PR: PHY 5405 or CI. Optical, electrical and magnetic properties of insulators, superconductivity, imperfections in solids. Second semester of sequence PHS 5405, PHS 6426. Fall Semester.

PHS 6525 PLASMA PHYSICS II

(3)

PR: PHS 5505 or CI. An analytical study of the various types of wave phenomena in plasmas describable by the continuum equations, the Boltzmann-Vlasov equation or the Boltzmann equation. Spring Semester.

PHS 6607 THEORY OF RELATIVITY

(3)

PR: PHS 5113 or CI. The special and general theory of relativity, including the gravitational field equations, applications of the special theory, experimental tests of the general theory and various topics of current research interest. (Offered alternate years.)

- PHY 5624 QUANTUM MECHANICS II** (3)
PR: PHY 4604 or CI. Symmetries, identical particles, scattering, approximation methods, Dirac equation, field quantization. Spring Semester.
- PHY 5722C 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.
- PHY 6246 CLASSICAL MECHANICS** (4)
PR: PHS 5113 or CI. Dynamics of particles and systems of particles, Lagrange's equation, central forces, rigid body dynamics. Fall Semester.
- PHY 6346 ELECTROMAGNETIC THEORY I** (3)
PR: PHY 4325 or CI. Electrostatics, magnetostatics, potential and boundary value problems. Maxwell's equations. First semester of sequence PHY 6346, PHY 6347. Fall Semester.
- PHY 6347 ELECTROMAGNETIC THEORY II** (3)
PR: PHY 6346 or CI. Electromagnetic waves, wave guides and resonant cavities, diffraction, relativistic-particle kinematics and dynamics, plasmas and magnetohydrodynamics. Spring Semester.
- PHY 6536 STATISTICAL MECHANICS** (3)
PR: PHY 4626 or CI. Kinetic theory, configuration and phase space.

- Boltzmann theorem, Liouville theorem, ensemble theory, quantum statistics. Spring Semester.
- PHY 6846L EXPERIMENTAL PHYSICS** (2)
PR: Graduate standing. Laboratory techniques frequently required in experimental research. Includes manipulation of glass, production and measurement of vacua, production and measurement of thin films, and use of various machine tools. Fall Semester.
- PHY 6909 INDEPENDENT STUDY** (var.)
Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)
- PHY 6911 DIRECTED RESEARCH** (var.)
PR: GR. Master's level. Repeatable. (S/U only.)
- PHY 6935 GRADUATE SEMINAR** (1)
All physics graduate students are expected to enroll in this course Sem. I each year. (S/U only.) Semesters: Fall, Spring, Summer.
- PHY 6938 SELECTED TOPICS IN PHYSICS** (1-10)
PR: CC. Each topic is a course in directed study under the supervision of a faculty member.
- PHY 6940 GRADUATE INSTRUCTION METHODS** (1-3)
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of three credits per student. (S/U only.)
- PHY 6971 THESIS: MASTER'S** (var.)
Repeatable. (S/U only.)

COLLEGE OF NURSING

NURSING

Dean: G. R. MacDonald; *Professors:* F. Carbonell, G. Dowd, I. King, G. MacDonald, O. Riggan, J. Sasmor; *Associate Professors:* M. Applegate, J. Bevilacqua, C. Burns, N. Entrekin, J. Gregory, J. Rackow, B. Redding, V. Ross; *Assistant Professors:* P. Adams, S. Boyd, D. Campbell, M. Etten, D. French, C. Long, C. O'Neil, D. Reiner, S. Sharma; *Instructors:* M. VanCott; *Visiting Professor:* I. Mauksch; *Visiting Assistant Professor:* M. Dunn; *Visiting Instructor:* N. Lees; *Visiting Lecturers:* B. Dickens, J. Floyd, B. Mon, M. Montgomery.

UNDERGRADUATE COURSES

- HUN 3201 NUTRITION** (3)
PR: Course work in chemistry and biology or, permission of faculty. Open to majors and non-majors. The study of fundamental principles of normal nutrition as they relate to human life and growth from conception through senescence, interpretation of current nutrition information, and application of nutrition knowledge in the establishment of good eating habits.
- NUR 3130 NURSING PROCESS II** (2)
PR: Permission of faculty. Development of the nursing process as it relates to normal and high risk childbearing families, maturing families with children, and families with complex health problems. Integrates pathology, nutrition, pharmacology and essential psychomotor skills of all ages.
- NUR 3130L NURSING INTERVENTION II** (3)
PR: Permission of faculty. Clinical nursing practice linked with Nursing Process II and focuses on maturing families and their health needs. Incorporates psychomotor skills, nutrition, pharmacology, psychosocial and community aspects.
- NUR 3321 NURSING PROCESS III** (2)
PR: Permission of faculty. Development of nursing process as it relates to mental health-psychiatric nursing needs of clients. Integrates pathology, nutrition, pharmacology and essential psychomotor skills of all ages.
- NUR 3321L NURSING INTERVENTION III** (2)
PR: Permission of faculty. Clinical nursing practice course linked to Nursing Process III. Focuses on meeting the mental health-psychiatric nursing needs of clients of all ages. Includes pathology, nutrition, pharmacology, essential psychomotor skills and community aspects.
- NUR 3612 NURSING PROCESS I** (3)
PR: Permission of faculty. Introduction to the nursing process and its application with stable families in the childbearing and child-rearing years. Essential psychomotor skills will be included.

- NUR 3612L NURSING INTERVENTION I** (2)
PR: Permission of faculty. Clinical nursing practice forces on healthy families in a variety of settings (linked to Nursing Process I). Incorporates psychomotor skills, nutrition, pharmacology, psychosocial and community aspects.
- NUR 3641L NURSING PRACTICUM I** (3)
PR: All preceding courses in prescribed curriculum plan or permission of Dean. Clinical practice providing experience in application of the nursing process with selected multi-problem individuals and families in primary care settings.
- NUR 3641 NURSING PROCESS IN PRIMARY CARE** (3)
PR: RN students only. Admission to major or faculty permission. Focus on use of assessment skills and nursing process in serving healthy and multi-problem clients in primary care settings. Functional skills examination included.
- NUR 3722C CLIENT ASSESSMENT I** (3)
PR: Admission to nursing major or permission of faculty. Introduces knowledge and skills essential for biopsychosocial assessment of individual clients in primary, secondary and tertiary care settings with emphasis on history-taking and physical assessment. Includes practice of physical assessment skills.
- NUR 3723C CLIENT ASSESSMENT II** (3)
PR: Permission of faculty. Expands knowledge and skills essential for biopsychosocial assessment of needs of clients and families in primary, secondary, or tertiary care settings with emphasis on data collection from secondary sources and interpretation of data with respect to clients' nursing needs.
- NUR 4636 NURSING PROCESS IV** (3)
PR: Permission of faculty. Care of institutionalized patients with selected major health problems, and care of the aged and chronically ill. Includes patho-physiology, nutrition, psycho-social aspects, pharmacology and appropriate psychomotor skills.
- NUR 4636L NURSING INTERVENTION IV** (4)
PR: Permission of faculty. Clinical nursing practice in community and secondary care settings (linked to Nursing Process IV.) Includes essential psychomotor skills, pharmacology, nutrition, and psychosocial health aspects.
- NUR 4651 NURSING PROCESS V** (2)
PR: Permission of faculty. Development of the nursing process for clients of all ages (including mother and infants) with problems arising from electrolyte, metabolic, endocrine and genitourinary disturbances. Integrates pathophysiology, essential psychomotor skills, nutrition, pharmacology, psychosocial and community health aspects.

- NUR 4651L NURSING INTERVENTION V** (2)
PR: Permission of faculty. Clinical nursing practice in secondary and/or tertiary care settings (linked to Nursing Process V(with clients of all ages with problems arising from electrolyte, metabolic, endocrine and genitourinary disturbances. Includes pathophysiology, nutrition, pharmacology, essential psychomotor skills, psychosocial and community health aspects.
- NUR 4652 NURSING PROCESS VI** (2)
PR: Permission of faculty. Development of the nursing process for clients of all ages with problems arising from disturbances in oxygenation. Integrates pathophysiology, nutrition, pharmacology; psychosocial, essential psychomotor skills and community health aspects.
- NUR 4652L NURSING INTERVENTION VI** (2)
PR: Permission of faculty. Clinical nursing practice in secondary and/or tertiary care settings (linked to Nursing Process IV(with clients of all ages with problems arising from disturbances in oxygenation. Includes essential psychomotor skills, pathophysiology, nutrition, pharmacology, psychosocial and community health aspects.
- NUR 4653 NURSING PROCESS VII** (2)
PR: Permission of faculty. Development of the nursing process for clients of all ages with problems arising from disturbances in coordination, perception, or sensory function. Integrates pathophysiology, nutrition, essential psychomotor skills, pharmacology, psychosocial and community aspects.
- NUR 4653L NURSING INTERVENTION VII** (2)
PR: Permission of faculty. Clinical nursing practice in secondary or tertiary care settings (linked to Nursing Process VII(with clients in all age groups with disturbances in coordination, perception or sensory function. Integrates pathophysiology, essential psychomotor skills, nutrition, pharmacology, psycho-social and community aspects.
- NUR 4654L NURSING PRACTICUM II** (4)
PR: RN. Permission of Dean. Application of theory from NUR 4654 in management of care for clients with complex health problems in a variety of health care settings.
- NUR 4654 NURSING PROCESS IN COMPLEX SITUATIONS** (4)
PR: RN. Previous courses in sequence or permission of Dean. Content focuses on clinical management of clients of all ages with common and complex health-illness problems.
- NUR 4910C 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 4930 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. (S/U only.)
- *NUR 4943C NURSING PRACTICUM III** (5)
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 student's professional goals. Associated seminars and/or institutes. (S/U only.)
- NUR 4943L PRECEPTORSHIP** (6)
PR: Permission of faculty. 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.
- NUS 3210C HUMAN ANATOMY** (3)
PR: Admission to nursing major or permission of Dean. A course in basic human anatomy including cellular and organ system relationships as a foundation for normal and abnormal function. Lec.-lab.
- NUS 3211C HUMAN PHYSIOLOGY** (4)
PR: Admission to nursing major or permission of Dean. Basic functional features of the normal human body considered on a systematic basis. General content includes the cell and functional organization of the body, the function of the body systems, and limited attention to deviations from normal and application to nursing practice. Lec.-lab.
- NUU 3500 NURSING CORE I** (3)
PR: Admission to nursing major or permission of faculty. The first of a series of courses that focus on progressive development of professional nursing roles and responsibilities and its relationship to the role of other health care and related professionals. Includes examination

of theories relevant to professional nursing practice, (communication, systems, leadership, scientific methodology, role learning, change, stress), historical development of nursing, and trends in nursing and health care, and ethical-legal aspects of health care.

- NUU 3501 NURSING CORE II** (2)
PR: Permission of faculty. Continuation of Nursing Core I.
- NUU 3502 NURSING CORE III** (2)
PR: Permission of faculty. Continuation of previous core courses.
- *NUU 4300 NURSING INQUIRY I** (2)
PR: All preceding courses in prescribed curriculum plan or permission of Dean. This course will emphasize the relationship between research and the improvement of nursing practice and health care): attention will be directed toward the need for research in nursing, areas currently being investigated, ethical issues, the research process, and the implementation of the results of nursing research.
- NUU 4504 INTERMEDIATE NURSING CORE** (4)
PR: Admission to the major. Designed to assist registered nurses in building on previous knowledge and experience in the following areas: research, roles, issues, and historical developments in nursing: ethical-legal matters; leadership and management; quality assurance; health team dynamics.
- NUU 4505 NURSING CORE IV** (2)
PR: Permission of faculty. Continuation of previous core courses with emphasis on issues and trends related to nursing roles in the health care delivery system and on nursing research.
- NUU 4506 NURSING CORE V** (3)
PR: Permission of faculty. Continuation of previous core courses with continued research emphasis and seminars related to problems of transition from student to practitioner including reality shock, use of supervision, self-evaluation, professional development and setting career goals.

*Courses available only to students currently enrolled.

GRADUATE COURSES

- NUR 6272 MANAGEMENT OF COMMON HEALTH PROBLEMS** (2)
PR: Adv. Physiology, Adult Assessment, Theory Development in Nursing, Adult Nursing. Didactic content taught by multidisciplinary faculty which focuses on the diagnosis and management of acute and chronic illnesses.
- NUR 6507C ADULT NURSING** (5)
PR: Advanced Physiologic Assessment. Exploration and testing of theoretical knowledge of growth and development in adulthood (rhythms, immunology and inflammation, pain, and abuse) and application in advanced adult nursing.
- NUR 6513 GERONTOLOGICAL NURSING I** (3)
PR: Permission of faculty. This foundation course in gerontological nursing emphasizes the physiological and psychological aspect of nursing of the well-elderly, including functional assessment.
- NUR 6514 GERONTOLOGICAL NURSING II** (3)
PR: Social Policy in Aging or permission of faculty. Theoretical and clinical experience which emphasizes the health maintenance and environmental interaction of the well elderly.
- NUR 6515C ISSUES IN GERONTOLOGY** (2)
PR: Admission to program or permission of faculty. A multidisciplinary focus on current developments in gerontology in the fields of biology, psychology, medicine, nutrition, economics, adult education, sociology and nursing.
- NUR 6516C PHYSIOLOGICAL AND PSYCHOLOGICAL ASPECTS OF GERONTOLOGICAL NURSING** (2)
PR: Admission to program or permission of faculty. A study of the physiological and psychological changes in gerontological patients and implications for nursing practice.
- NUR 6517C GERONTOLOGICAL NURSING PRACTICUM I** (4)
PR: Permission of faculty. Clinical practicum with emphasizes effective nursing intervention in acute and chronic illness in the elderly including: treatment of illness, prevention of complications, rehabilitation and health education.
- NUR 6518C GERONTOLOGICAL NURSING PRACTICUM II** (4)
PR: Gerontological nursing sequence course or permission of faculty. Practicum experience emphasizes leadership/management principles which assist the gerontological nurse in health care delivery of the elderly.
- NUR 6720 ADVANCED PHYSIOLOGIC ASSESSMENT** (4)
PR: Admission to program or permission of faculty. Focus on cellular

physiology and the feedback and control mechanism of bodily functions at the cellular, organ and system level.

NUR 6721 ADVANCED PATHOPHYSIOLOGY (2)

PR: Advanced Physiologic Assessment. A conceptual approach which focuses on disease mechanisms to establish a sound scientific base for clinical assessment and management of common health problems of adult patients.

NUR 6751C ADULT HEALTH ASSESSMENT (3)

PR: Admission to program or permission of faculty. Advanced Physiology prerequisite or concurrent. Emphasizes advanced physical and psychological clinical assessment skills and includes a theoretical and practical approach based on nursing process.

NUR 6905 INDEPENDENT STUDY (1-6)

Specialized individualized study determined by students' needs and interests which requires an approved contract with a faculty member.

NUR 6931 SELECTED TOPICS (1-4)

Seminars for the analysis and discussion of selected issues in nursing of topical concern to student and faculty.

NUR 6945L PRACTICUM IN CLINICAL NURSING I (4)

PR: Adult Nursing. Intensive directed study in advanced professional nursing which focuses on testing of nursing theories, teaching strategies and management of selected patients.

NUR 6946L PRACTICUM IN CLINICAL NURSING II (4)

PR: Practicum in Clinical Nursing I. A summative clinical experience which focuses on the role of the advanced nurse clinician as a clinical specialist or adult primary care nurse.

NUR 6947L PRACTICUM IN NURSING EDUCATION (4)

PR: Course requirements for nursing educational functional minor; permission of faculty. Instructional experiences which utilize educational concepts and instructional strategies in a variety of educational settings in nursing.

NUR 6971 THESIS: MASTERS'S (var.)

Repeatable. (S/U only.)

NUU 6027 PHARMACOLOGY FOR ADVANCED NURSE CLINICIANS (2)

PR: NUR 6720 Advanced Physiologic Assessment. Graduate status. Synthesizes information relative to the pharmacological actions of selected classes of drugs with emphasis on mechanism, phar-

macodynamics and implications for nursing practice.

NUU 6171C NURSING EDUCATION IN INSTITUTIONS OF HIGHER EDUCATION (2)

PR: Permission of faculty. An examination of the historical development of nursing education within higher education, issues in higher education and their effect on nursing education, and the future role of nursing education in institutions of higher education.

NUU 6216C MANAGEMENT IN CLINICAL NURSING PRACTICE (2)

Explores management concepts including a variety of theoretical and clinical approaches to the nursing management of patient care in a variety of patient care settings.

NUU 6222 ADVANCED ROLE DEVELOPMENT (3)

PR: Permission of faculty. Combined lecture/seminar focusing on an exploration of role theory and its application to advanced nurse roles.

NUU 6230C CURRICULUM AND INSTRUCTION IN NURSING EDUCATION (2)

PR: Permission of faculty. Trends and issues in curriculum development, faculty role, instructional strategies, internal and external factors influencing decisions in curriculum and instruction and implications for their utilization in nursing programs.

NUU 6293C FACTORS INFLUENCING HEALTH CARE (2)

PR: Admission to program or permission of faculty. An interdisciplinary course that focuses on contemporary social, political and economic issues related to health care and legal-ethical concepts applicable to the decision-making process in nursing practice, education and research.

NUU 6370 NURSING RESEARCH (3)

PR: Theory Development in Nursing. Includes an overview of research in nursing, identification of researchable problems, design and analysis of research proposals and research methodologies and strategies applicable to nursing.

NUU 6510 THEORY DEVELOPMENT IN NURSING (3)

PR: Admission to program or permission of faculty. Focuses on theory development in nursing, including theory development, relationships of theoretical frameworks, and analysis of conceptual models as a basis for nursing diagnosis.

COLLEGE OF SOCIAL & BEHAVIORAL SCIENCES

AFRICAN AND AFRO-AMERICAN STUDIES

Director: F. U. Ohaegbulam; *Professor:* F. U. Ohaegbulam; *Assistant Professors:* J. W. Dudley, K. R. Glover; *Visiting Faculty:* Associate Professor: B. A. Wheeler; *Other Faculty:* S. Garcia, J. Renick, J. Smith, P. Stith.

UNDERGRADUATE COURSES

AFA 2001 INTRODUCTION TO AFRO-AMERICAN STUDIES (3)

Fundamental perspectives on the nature and meaning of the Afro-American experience and the role of Afro-American Studies in articulating major problems in American and world society.

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 4900 DIRECTED READINGS (2-3)

Independent readings in a particular area of 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.)

AFA 3311 THE AFRICAN DIASPORA AND PAN-AFRICANISM (3)

An examination of the African Diaspora and the influence of African culture and civilization on the growth and development of world culture; and the historical quest for racial and continental pan-Africanism including Garveyism.

AFA 4321 EDUCATIONAL DEVELOPMENT IN THE AFRICAN WORLD (3)

An examination of educational systems and experiences of African peoples' cultural past and needs for their future. Attention to changing structures and functions of education as manifestations of governmental and societal needs and desires.

AFA 4910 RESEARCH AND FIELD STUDIES (1-3)

A course linking the study pursued by the student with research and work projects in the Tampa Black community.

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 35 71, 1943-1865; 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.

CPO 4254 GOVERNMENT AND POLITICS OF WEST AFRICA (3)

In depth study of government, political systems and processes in West Africa including political developments, ideologies, problems and prospects of political and economic development and military regimes in the area.

ECP 4143 BLACK AMERICANS IN THE AMERICAN ECONOMIC PROCESS (3)

Brief economic history of Black Americans emphasizing the impact of racial discrimination and evaluating proposals for improvement as they apply to Black Americans and other minority groups.

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 BLACKS IN AMERICAN POLITICAL PROCESS (3)

An examination of the political experience of blacks in the American political process including their political socialization, and struggle to become effective participants in the American political process.

GRADUATE COURSES**AFH 5205 SEMINAR: AFRICA FROM COLONIAL TIMES TO THE PRESENT** (3)

PR: CI. An in-depth examination of Africa's colonial heritage and post independence efforts at nation building, economic development and eradication of the remnants of colonialism, and other topics such as relations between African states and the former colonial powers and other major world powers.

AFH 5295 SEMINAR: AFRICA CONTEMPORARY ISSUES (3)

PR: CI. An in-depth examination of major contemporary social and political issues in the African continent including their domestic and international dimensions.

INR 5257 SEMINAR: AFRICA AND THE UNITED STATES IN WORLD AFFAIRS (3)

PR: CI. An in-depth examination of African-American relations since colonial days in the New World and in Africa with emphasis on the post World War II period.

SSI 5934 SELECTED TOPICS (1-3)

PR: CI plus senior standing or graduate status. May be repeated. To provide advanced students with interdisciplinary study of selected topics. (Also offered under Social Sciences Interdisciplinary.)

ANTHROPOLOGY

Chairperson: G. Kushner; *Professors:* R. T. Grange, Jr., G. Kushner, A. Shiloh, A. W. Wolfe; *Associate Professors:* M. V. Angrosino, J. J. Smith, C. W. Weinker, J. R. Williams; *Assistant Professors:* S. J. Gluckman, P. P. Waterman, L. M. Whiteford; *Courtesy Faculty:* Assistant Professor: J. A. Breuggeman; *Other Faculty:* M. D. Vesperi.

UNDERGRADUATE COURSES**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, an 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 PHYSICAL 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 HISTORY OF ANTHROPOLOGICAL THEORY (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 FIELD METHODS IN ARCHAEOLOGY (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 4133 UNDERWATER ARCHAEOLOGY (3)

PR: ANT 3100 or CI. Methods, theory and history of underwater archaeology. Diving history and physiology are considered. Emphasis on underwater archaeology as anthropology and the management of underwater archaeological resources.

ANT 4153 NORTH AMERICAN ARCHAEOLOGY (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** (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 4182 CONTEMPORARY PROBLEMS IN ARCHAEOLOGY** (3)
PR: ANT 3100 or CI. Focuses on the development of current archaeological method and theory. Examines the relationship between archaeology and the other branches of anthropology.
- ANT 4226 ANTHROPOLOGY OF ART** (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** (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 ANTHROPOLOGY OF RELIGION** (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 WOMEN 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 CULTURES OF NATIVE NORTH AMERICA** (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 CULTURES OF THE CONTEMPORARY 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 CULTURES OF MESOAMERICA** (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 CULTURES OF THE CARIBBEAN** (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 CULTURES OF 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 CULTURE AND PERSONALITY** (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 ANTHROPOLOGY** (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 MEDICAL ANTHROPOLOGY** (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 RESEARCH METHODS IN CULTURAL ANTHROPOLOGY** (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 PHYSICAL ANTHROPOLOGY** (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 THE PHYSICAL ANTHROPOLOGY OF LIVING HUMANS** (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 THE PHYSICAL ANTHROPOLOGY OF PREHISTORIC HUMANS** (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. Bio social patterns and cultures of the past are also covered.
- ANT 4620 LANGUAGE AND CULTURE** (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 4723 ANTHROPOLOGY AND EDUCATION** (3)
PR: ANT 3410 or CI. Examines the processes through which human beings learn to become functioning members of a society. Crosscultural analysis of patterns of education based on crosscultural data. Discussion of problems of minority education and the teaching of anthropology in primary/secondary schools.

- ANT 4750 ETHNOGRAPHY OF COMMUNICATION** (3)
PR: ANT 3610 or CI. Examines the role of language and other modes of communication in the social settings of speech communities. Student field projects focus on the crosscultural description and analysis of patterns of communication in ethnographic contexts.
- ANT 4901 DIRECTED READING** (1-4)
PR: CI. Individual guidance in concentrated reading on a selected topic in anthropology. Contract required prior to registration.
- ANT 4907 INDIVIDUAL RESEARCH** (2-4)
PR: CI. Individual guidance in a selected research project. Contract required prior to registration.
- ANT 4930 SPECIAL TOPICS IN ANTHROPOLOGY** (3)
PR: CI. Topics to be chosen by students and instructor permitting newly developing interdisciplinary special interests to be explored. may be repeated as topics vary.
- ANT 4935 SENIOR SEMINAR IN ANTHROPOLOGY** (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.
- 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.

GRADUATE COURSES

- 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: CI. Topics to be chosen by students and instructor.
- ANT 6186 SEMINAR IN ARCHAEOLOGY** (3)
PR: Graduate standing. One of four core courses required of all students. A critical survey of archaeology emphasizing contribution to applied anthropology. Open to non-majors.
- ANT 6196 METHODS IN PUBLIC ARCHAEOLOGY** (3)
PR: Three of the core courses, or CI. Field techniques, methods of collection, analysis, and interpretation of data. May be repeated up to 6 credit hours as topics vary. Open to non-majors. Lec.-lab, field trips.
- ANT 6197 SELECTED TOPICS IN PUBLIC ARCHAEOLOGY** (3)
PR: Three of the core courses, or CI. Current topical issues in public archaeology. May be repeated up to 6 credit hours as topics vary. Open to non-majors.
- ANT 6198 REGIONAL PROBLEMS IN PUBLIC ARCHAEOLOGY** (3)
PR: Three of the core courses, or CI. Contemporary problems in public archaeology in the context of a specific region. May be repeated up to 6 credit hours as topics vary. Open to non-majors.
- ANT 6446 METHODS IN URBAN ANTHROPOLOGY** (3)
PR: Three of the core courses, or CI. Field techniques, methods of collection, analysis, and interpretation of data. May be repeated up to 6 credit hours as topics vary. Open to non-majors. Lec.-lab, field trips.
- ANT 6447 SELECTED TOPICS IN URBAN ANTHROPOLOGY** (3)
PR: Three of the core courses, or CI. Current topical issues in urban anthropology. May be repeated up to 6 credit hours as topics vary. Open to non-majors.
- ANT 6448 REGIONAL PROBLEMS IN URBAN ANTHROPOLOGY** (3)
PR: Three of the core courses, or CI. Contemporary problems in urban anthropology in the context of a specific region. May be repeated up to 6 credit hours as topics vary. Open to non-majors.
- ANT 6463 REGIONAL PROBLEMS IN MEDICAL ANTHROPOLOGY** (3)
PR: Three of the core courses, or CI. Contemporary problems in medical anthropology in the context of a specific region. May be

- repeated up to 6 credit hours as topics vary. Open to non-majors.
- ANT 6469 SELECTED TOPICS IN MEDICAL ANTHROPOLOGY** (3)
PR: Three of the core courses, or CI. Current topical issues in medical anthropology. May be repeated up to 6 credit hours as topics vary. Open to non-majors.
- ANT 6490 SEMINAR IN CULTURAL ANTHROPOLOGY** (3)
PR: Graduate standing. One of four core courses required of all students. A critical survey of cultural anthropology emphasizing contributions to applied anthropology. Open to non-majors.
- ANT 6588 SEMINAR IN PHYSICAL ANTHROPOLOGY** (3)
PR: Graduate standing. One of four core courses required of all students. A critical survey of physical anthropology emphasizing contributions to applied anthropology. Open to non-majors.
- ANT 6676 SEMINAR IN ANTHROPOLOGICAL LINGUISTICS** (3)
PR: Graduate standing. One of four core courses required of all students. A critical survey of anthropological linguistics emphasizing contributions to applied anthropology. Open to non-majors.
- ANT 6737 METHODS IN MEDICAL ANTHROPOLOGY** (3)
PR: Three of the core courses, or CI. Field techniques, methods of collection, analysis and interpretation of data. May be repeated up to 6 credit hours as topics vary. Open to non-majors. Lec.-lab, field trips.
- ANT 6908 INDEPENDENT STUDY** (var.)
Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)
- ANT 6915 DIRECTED RESEARCH (INTERNSHIP)** (var.)
PR: GR. Master's level. Repeatable. (S/U only.)
- ANT 6971 THESIS: MASTER'S** (var.)
Repeatable. (S/U only.)

COMMUNICOLOGY

Chairperson: S. W. Kinde; *Professors:* S. W. Kinde, L. H. Ricker, S. I. Ritterman, D. C. Shepherd; *Associate Professors:* J. B. Crittenden, A. M. Guilford; *Assistant Professors:* R. L. Carlson, C. F. Kuffel, D. P. McClowry, J. F. Scheuerle; *Instructor:* S. R. Halstead; *Lecturer:* E. A. Kagan; *Visiting Faculty:* Professor: S. O. Richardson; *Courtesy Faculty:* Professors: M. Abdoney, F. X. Frueh, E. T. Gray, M. Habal; *Assistant Professor:* G. H. Horsfall; *Other Faculty:* S. Daly, K. K. Hollahan.

UNDERGRADUATE COURSES

- SPA 2001 SURVEY OF COMMUNICATION DISORDERS** (2)
A general survey course concerning the nature and prevention of disorders of communication.
- SPA 3020 INTRODUCTION TO COMMUNICATION DISORDERS** (4)
The scope of speech pathology as a profession and a field of study. An introduction to speech and language disorders (articulation, stuttering, voice, aphasia, etc.): etiologies, major treatment approaches, and research findings.
- SPA 3080 INTRODUCTION TO RESEARCH PROCEDURES IN COMMUNICOLOGY** (4)
Perspective on research in speech pathology and audiology. Introduction to multivariate design considerations as they apply to research in speech and hearing laboratory and clinical settings. Analysis of basic hypothesis testing.
- SPA 3101 ANATOMY OF THE SPEECH AND HEARING MECHANISM** (6)
The neurological and anatomical basis of communication disorders. Comparisons of normal and pathological organic structures and their functional dynamics.
- SPA 3110 INTRODUCTION TO HEARING SCIENCE** (4)
The scope of audiology as a profession and field of study. An introduction to the study of hearing impairments: classifications, etiologies, major treatment approaches, and research findings.
- SPA 3117 INTRODUCTION TO SPEECH SCIENCE** (4)
PR: SPA 3020, SPA 3101. 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 4004 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.

SPA 4040 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 4050 INTRODUCTION TO PRACTICUM (1-12)

Observation and participation in speech pathology and audiology practicum in the University clinical laboratory.

SPA 4250 COMMUNICATION DISORDERS I: VOICE/ARTICULATION/STUTTERING (3)

PR: SPA 4255. An introduction to communication disorders associated with neurological dysfunction: identification, etiologies and major treatment approaches. An overview of legal, ethical and professional roles and responsibilities.

SPA 4255 COMMUNICATION DISORDERS II: CEREBRAL PALSY/CLEFT PALATE/APHASIA (4)

PR: LIN 3010, LIN 4040, LIN 4710 and admission to program. An introduction to communication disorders associated with the peripheral speech mechanism (articulation, voice etc.); identification, etiologies, and major treatment approaches.

SPA 4333 INTRODUCTION TO AMERICAN SIGN LANGUAGE (1)

Introduction to the elements of body language, gesture, and facial expression as related to manual communication. Also discusses aspects of physical contact as a communication tool. Open to interested non-majors as well as Communicology majors.

SPA 4334 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 4336 BASIC AMERICAN SIGN LANGUAGE (2)

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 4339) to be taken concurrently. Open to all majors.

SPA 4363 NATURE AND NEEDS OF THE HEARING IMPAIRED (4)

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 4930 SELECTED TOPICS (3)

PR: CI. Intensive study of topics in Speech Pathology, Audiology, and/or Aural (Re)Habilitation (Deaf Education) conducted under the supervision of a faculty member. May be repeated for a total of 9 credit hours.

GRADUATE COURSES

SPA 5002 THE SCIENCE OF COMMUNICATION DISORDERS (4)

PR: SPA 3020 or SPA 3110 or CI. The application of behavioral and learning principles to the study of the normal development of speech, language and hearing and to the management of disorders.

SPA 5132 AUDIOLOGY INSTRUMENTATION (6)

PR: CI. Calibration, usage and specific applications of specialized instruments available in dealing with the identification and measurement of hearing disorders.

SPA 5201 COMMUNICATIONAL DISORDERS: ARTICULATION (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 5210 COMMUNICATION DISORDERS: VOICE (3)

PR: CI. A comprehensive study of the medical and physical aspects of voice disorders. Primary emphasis is on therapeutic management.

SPA 5222 COMMUNICATION DISORDERS: STUTTERING (3)

PR: CI. A comprehensive study of the diagnosis and modification of

stuttering based on a two-factor model. Other major theories are considered and evaluated.

SPA 5303 AUDIOLOGY: HEARING SCIENCE (6)

The study of the physiological acoustics of the auditory periphery; the neuronatomy 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 5337 INTERMEDIATE AMERICAN SIGN LANGUAGE (4)

PR: SPA 4336 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 4339) to be taken concurrently.

SPA 5338 ADVANCED AMERICAN SIGN LANGUAGE (4)

PR: SPA 4337 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 4339) is to be taken concurrently. Open to all majors.

SPA 5339 AMERICAN SIGN LANGUAGE LABORATORY (1)

A laboratory course designed to offer students added practice with the material being presented in the manual communications coursework through video and audio tapes. To be taken concurrently with each level of manual communication.

SPA 5402 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 5550 METHODS FOR ORAL COMMUNICATION DISORDERS (6)

PR: SPA 5552 or CI. An in-depth analysis of classic and contemporary methods employed in the management of communicatively impaired individuals.

SPA 5552 EVALUATION OF ORAL COMMUNICATION DISORDERS (4)

PR: Admittance to the Program of CI. The administration, evaluation, and reporting of diagnostic tests and procedures used in assessment of speech and language disorders.

SPA 5557 SPEECH PATHOLOGY AND AUDIOLOGY PRACTICUM (1-8)

PR: CI. Participation in speech pathology and audiology practicum in the University clinical laboratory and selected field settings.

SPA 5600 MANAGEMENT OF COMMUNICATION DISORDERS (3)

PR: CI. The planning of programs for individuals with speech, language, and hearing impairments. Includes administration of programs in public schools, clinics, and private practice.

SPA 5930 SELECTED TOPICS (3)

PR: CI. A reading program of topics in speech pathology and/or audiology conducted under the supervision of a faculty member. May be repeated three times.

SPA 6106 NEUROLOGICAL CORRELATES OF LANGUAGE (3)

PR: CC or delegate. Review of the anatomy and physiology of the nervous system. Discuss neurological correlates or receptive and expressive language in verbal and non-verbal transmission and feedback.

SPA 6231 CEREBRAL PALSY (3)

PR: CI. A study of the medical, physical, occupational, speech, language, and hearing problems of the cerebral palsied. Therapy techniques are reviewed and evaluated.

SPA 6245 CLEFT PALATE (3)

PR: CI. An in-depth study of speech, language and hearing problems associated with cleft lip and cleft palate. Consideration is given to a multidisciplinary approach to therapy and rehabilitation.

SPA 6305 CHILD AUDIOLOGY (3)

PR: SPA 5312. Etiologies and manifestations of hearing loss within a pediatric population. Survey of procedures used in early identification

and quantified measurement of hearing loss in young and non-communicative children.

SPA 6307 SPECIAL AUDITORY TESTS (4)

PR: SPA 5312 or CI. History, development, rationale and techniques for administering hearing tests to determine site of lesion, including those requiring special instrumentation.

SPA 6322 TECHNIQUES OF AUDITORY TRAINING AND SPEECHREADING (6)

PR: CI. A careful analysis of the visual and auditory sense modalities as input systems used to facilitate communication in the hearing impaired. Methods employed in the habilitation of both modalities will be presented.

SPA 6326 PROCEDURES AND MATERIALS FOR THE HEARING IMPAIRED (3)

PR: Major in Aural (Re)Habilitation or CI. Curricular adaptation, methods and techniques, organization necessary for teaching the hearing impaired.

SPA 6329 READING FOR THE HEARING IMPAIRED (2)

PR: RED 4310, RED 4515, major in Aural (Re)Habilitation and CI. Techniques and materials for teaching reading to children with auditory disorders. Evaluation and analysis of contemporary programs and methods.

SPA 6332 SPEECH FOR THE HEARING IMPAIRED (4)

PR: SPA 3020, SPA 3110, SPA 4363. Application and evaluation of techniques for teaching symbolic functioning to children with hearing impairments. Consideration of developmental and remedial aspects of reading.

SPA 6335 ADVANCED MANUAL COMMUNICATION AND BASIC INTERPRETING (3)

PR: SPA 4333 or equivalent and CI. A continuation of basic course which expands students signing skills and presents an exposition of sign systems aimed at signing in an English language context.

SPA 6345 HEARING AIDS (3)

Interpretation of hearing test data as it relates to the selection of the hearing aids and the planning of rehabilitation programs for the hearing impaired.

SPA 6354 HEARING CONSERVATION (4)

An investigation of the hazardous properties of noise and their effects upon the human auditory systems; hearing conservation programs in industry; and the extra-aural effects and control of community noises.

SPA 6401 PEDIATRIC LANGUAGE DISORDERS (3)

PR: CI. An examination of the pre-verbal and language skills of the infant and preschool child and the Speech Pathologist's role in the diagnosis, treatment and parent-trainer for these children.

SPA 6410 APHASIA (3)

PR: CI. A consideration of the neurological and psychological aspects of aphasia as they relate to communication disorders. Specific language therapy approaches are discussed and evaluated.

SPA 6423 LANGUAGE FOR THE HEARING IMPAIRED (4)

PR: SPA 3020, SPA 3110, SPA 4363 or CI. Techniques and materials of teaching language to children with auditory disorders. Evaluation and analysis of contemporary methods.

SPA 6505 PRACTICUM (1-8)

PR: CI. Participation in speech pathology and audiology practicum in the University clinical laboratory and selected field settings.

SPA 6553 ADVANCED DIFFERENTIAL DIAGNOSIS AND TREATMENT PLANNING (3)

PR: CI. The interpretation of evaluation results and the integration of these data in order to make a differential diagnosis leading to an appropriate therapy plan. The administration, evaluation, and reporting of more advanced evaluation techniques not covered in SPA 5552.

SPA 6825 RESEARCH PROCEDURES IN SPEECH PATHOLOGY AND AUDIOLOGY (4)

PR: CI. Advanced research and experimental design techniques employed in clinical and laboratory settings in speech pathology and audiology.

SPA 6906 INDEPENDENT STUDY (var.)

Independent study in which students must have a contract with an instructor. Repeatable. (S/U only.)

SPA 6910 DIRECTED RESEARCH (var.)

PR: G. Master's level. Repeatable. (S/U only.)

SPA 6930 SELECTED TOPICS (3)

PR: CI. A reading program of topics in speech pathology and/or audiology conducted under the supervision of a faculty member. May

be repeated three times.

SPA 6971 THESIS: MASTER'S

Repeatable. (S/U only.)

(var.)

CRIMINAL JUSTICE

Chairperson: Harold J. Vetter; *Professors:* M. Silverman, L. Territo, H. J. Vetter; *Associate Professors:* N. Allen, W. R. Blount, R. Dembo, J. T. Reilly, I. J. Silverman, M. Vega; *Assistant Professors:* D. L. Agresti, K. Heide, R. Taylor.

UNDERGRADUATE COURSES

CCJ 3020 SURVEY OF THE CRIMINAL JUSTICE SYSTEM (3)

PR: PSY 1012, 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 3280 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 crimes, and court procedures.

CCJ 3620 THEORIES AND TYPOLOGIES OF CRIMINAL BEHAVIOR (3)

PR: CCJ 3020. Provides a basic understanding of the complex factors related to crime, with concentration of patterns of offender behavior and principal theoretical approaches to the explanation of crime and criminals.

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 4130 THE LAW ENFORCEMENT OFFICER AND THE COMMUNITY (3)

PR: Junior Standing plus CCJ 4110 or CI. Examines the area of human relations especially as it applies to police functions within the community. Topics of justice and discrimination are emphasized.

CCJ 4283 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 4330 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 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 plus CCJ 3701 or CI. Introduction to research methodology and the evaluation of research. This course may not be taken for credit if the student has already successfully completed STA 3122, GEB 2111, or STA 3023.

CCJ 4822 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.

***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 4900, CCJ 4910 or any combination of the two will be accepted toward the minimum number for 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 Criminal Justice 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

(3-9)

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. Each three-hour block of credit will require a minimum of ten hours of work per week within the host agency in addition to any written work or reading assignments. See requirements for the B.A. degree in Criminal Justice for the number of hours required. (S/U only.)

**Courses available only to students currently enrolled.*

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.

GRADUATE COURSES**CCJ 6205 THE JUDICIAL PROCESS**

(3)

PR: CCJ 6285 or CI. Designed to equip the student with an understanding of the evolution and current features which characterize the structure and operations of county, state, and federal courts.

CCJ 6285 LAW AND CRIMINAL JUSTICE

(3)

An exposition of historical and contemporary legal principles, procedures, and issues as reflected in Constitutional provisions, statutes and case law.

CCJ 6305 THEORY, PRACTICE, AND RESEARCH IN CORRECTIONS

(3)

Examination of the complex interrelationships between theory and practice in corrections, as these are affected by empirical research and systematic program evaluation.

CCJ 6345 SUPERVISION AND TREATMENT STRATEGIES

(3)

Designed to acquaint the beginning graduate student with general conditions, skills and techniques required to provide effective correctional treatment or intervention with adult and juvenile offenders.

CCJ 6402 THEORY, PRACTICE, AND RESEARCH IN LAW ENFORCEMENT

(3)

This issues-oriented course explores the relationships among theory, practice, and research as these are reflected in the problems and challenges which confront law enforcement.

CCJ 6405 LAW ENFORCEMENT ADMINISTRATION

(3)

This course is designed to examine the major elements of law enforcement administration and management. Special attention is given to the organizational theory and scientific management of law enforcement agencies.

CCJ 6455 CORRECTIONAL ORGANIZATION AND ADMINISTRATION

(3)

This course is intended to provide a comprehensive overview of the

state of the art of correctional organization and administration. This course blends together the most current information from the managerial and behavioral sciences.

CCJ 6466 RESOURCE DEVELOPMENT AND ACQUISITION

(3)

Provides introduction to practical experience in securing financial assistance for criminal justice agencies. Stress is placed on proposal development, planning, analysis of criteria, and feasibility of funding for specific projects.

CCJ 6475 SYSTEMS ANALYSIS IN CRIMINAL JUSTICE

(3)

PR: CCJ 6709. Time is spent on the design and analysis of both existing and student created systems, with emphasis on the role of system analysis as it applies to management information systems, and computer-based systems.

CCJ 6605 THEORETICAL APPROACHES TO CRIMINAL BEHAVIOR

(3)

An introduction to, and comparison of, major historical and contemporary theories that seek to explain criminal behavior.

CCJ 6705 SYSTEMATIC INQUIRY IN CRIMINAL JUSTICE

(3)

Introduces the basic concepts, terminology, techniques, approaches, and issues in criminal justice research, with emphasis on relationships among theory and research, legal bibliography, and ethical issues involved in systematic inquiry.

CCJ 6709 RESEARCH AND EVALUATION IN CRIMINAL JUSTICE I

(3)

PR: CCJ 6705. Introduction to empirical research techniques and principles, statistics, data management, and management information procedures.

CCJ 6716 RESEARCH AND EVALUATION IN CRIMINAL JUSTICE II

(3)

PR: CCJ 6709. Principles and methods of program evaluation and evaluative research in criminal justice. Focuses on application of research strategies under constraints of politics, deadlines, financial limits, and other field circumstances.

CCJ 6725 CORRECTIONAL PLANNING

(3)

Provides an in-depth examination of urban correctional planning processes, with emphasis on personnel development, budgeting, and facility plans and their implementation.

CCJ 6726 LAW ENFORCEMENT PLANNING

(3)

This course will examine contemporary law enforcement planning and will focus on techniques and skills required to forecast future needs of police agencies in rapidly expanding metropolitan areas.

CCJ 6910 DIRECTED RESEARCH

(1-3)

PR: GR. Master's level. Repeatable. A maximum of 3 hours may be counted toward the minimum number of hours required by the department for the master's degree. (S/U only.)

CCJ 6920 PRO SEMINAR IN CRIMINAL JUSTICE

(1-2)

One hour is required for all students. Provides a forum for presentation and discussion of research ideas by faculty, students, and guests, with a view toward development of thesis topics. Should be taken during first semester in program.

CCJ 6935 TOPICS IN CRIMINAL JUSTICE

(3)

PR: Graduate standing in Department of Criminal Justice. This course provides opportunity for analysis and discussion of topics of major concern in criminal justice that are not covered in regular courses. May be repeated with different subject matter.

CCJ 6971 THESIS: MASTER'S

(6)

PR: CCJ 6705. Repeatable. A maximum of six hours may be counted toward the minimum number of hours required for the Master's degree. (S/U only.)

GEOGRAPHY

Chairperson: R. H. Fuson; *Professor:* R. H. Fuson; *Professor Emeritus:* H. H. Neuberger, S. C. Rothwell; *Associate Professor:* R. O. Clark, H. J. Schaleman, J. W. Stafford, D. M. Stowers; *Assistant Professor:* H. F. Gilman, R. C. Holmes; *Instructor:* M. L. LeVasseur; *Courtesy Faculty:* Professor: N. J. Ashford.

UNDERGRADUATE COURSES**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 3002 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 3260 GEOGRAPHY OF THE SOUTHEAST** (4)
- GEA 3270 GEOGRAPHY OF FLORIDA** (4)
- GEA 3300 GEOGRAPHY OF MIDDLE AMERICA** (4)
- GEA 3360 GEOGRAPHY OF THE GULF OF MEXICO** (4)
- GEA 3400 GEOGRAPHY OF LATIN AMERICA** (4)
- GEA 3410 GEOGRAPHY OF SOUTH 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)
- GEA 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 3370 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 inter-relationship between the atmospheric environment and man.
- GEO 4040C MAP INTERPRETATION** (4)
PR: GEO 3370. Analysis and synthesis of various types of maps and map projections.
- GEO 4100C CARTOGRAPHY** (4)
PR: GEO 3370. Map compilation and graphic presentation.
- GEO 4114C GEOGRAPHIC TECHNIQUES AND METHODOLOGY** (4)
PR: GEO 3370. Selected topics in various geographic techniques and methodologies and their application.
- GEO 4124C AIR PHOTO INTERPRETATION** (4)
PR: GEO 3370. 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 3370. Statistical analysis in geographic research.
- GEO 4200C PHYSICAL GEOGRAPHY** (4)
PR: GEO 3370. Intensive study of a topic selected from physical geography.
- GEO 4210 PHYSIOGRAPHY** (4)
PR: GEO 3370. Origin, evolution, and distribution of the landforms of North America.
- GEO 4280C HYDROLOGY** (4)
PR: GEO 3370. Hydrologic cycle; precipitation, evapotranspiration, water budget, streamflow, and probability analysis.
- GEO 4340 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 on its various components. May also include a survey of regional water problems.
- GEO 4420 CULTURAL GEOGRAPHY** (4)
PR: GEO 3370. 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 distribu-

tions 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 3370. The geographic factors underlying political decisions and influencing their outcome; the geographic consequences of these decisions; geopolitics.
- GEO 4500 ECONOMIC GEOGRAPHY** (4)
PR: GEO 3370. The spatial organization of economic production, consumption, and exchange systems.
- GEO 4530 GEOGRAPHY OF ENERGY** (4)
The primary sources of energy, examined regionally and systematically; resource bases, production, and consumption. OPEC and environmental problems are considered.
- GEO 4602 URBAN GEOGRAPHY** (4)
PR: GEO 3370. 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 3370. Interrelationships between freight and passenger transportation and land use, in terms of site, traffic generation, and circulation.
- GEO 4890 COASTAL ZONE MANAGEMENT** (4)
PR: GEO 3370. Physical, cultural, and environmental elements of the coastal zone; impact of economic activities; recreation and conservation.
- 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.
- 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.

GRADUATE COURSES

- GEA 6195 SEMINAR IN ADVANCED REGIONAL GEOGRAPHY** (3)
PR: Graduate standing in geography. Analytic study of a selected region of the world. May be repeated once for credit, but region may not be repeated.
- GEO 5065 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.
- GEO 6119 SEMINAR IN ADVANCED TECHNIQUES & METHODOLOGY** (3)
PR: Graduate standing in geography. Analytic study of a technique or investigation into an aspect of methodology. May be repeated once for credit, but topic may not be repeated.
- GEO 6209C SEMINAR IN ADVANCE PHYSICAL GEOGRAPHY** (3)
PR: Graduate standing in geography. Analytic study of a problem selected from one or more aspects of the atmosphere, biosphere, hydrosphere, or lithosphere. May be repeated once for credit, but topic may not be repeated.
- GEO 6428 SEMINAR IN ADVANCED CULTURAL GEOGRAPHY** (3)
PR: Graduate standing in geography. Analytic study of a problem

selected from one or more aspects of the cultural landscape (urban, political, economic, population, settlement). May be repeated once for credit.

GEP 6908 INDEPENDENT STUDY (var.)
Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

GEO 6918 DIRECTED RESEARCH (var.)
PR: GR. Master's level. Repeatable. (S/U only.)

GEO 6919 GRADUATE RESEARCH METHODS (1-4)
Special course to be used primarily for the training of graduate research assistants. Variable credit, repeatable. Limited to a cumulative total of four credits per student. (S/U only.)

GEO 6945 ACADEMIC METHODOLOGY (3)
PR: Graduate standing in geography. Current trends in college geography, with the emphasis on the junior college program. Not available to thesis students.

GEO 6947 DIRECTED TEACHING (1-6)

GEO 6948 GRADUATE INSTRUCTION METHODS (1-4)
Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of five credits per student. (S/U only.)

GEO 6971 THESIS: MASTER'S (var.)
Repeatable. (S/U only.)

GERONTOLOGY

Chairperson: T. A. Rich; *Professors:* T. J. Northcutt, Jr., J. I. Kosberg, T. A. Rich, S. V. Saxon; *Associate Professors:* A. S. Gilmore, W. P. Mangum; *Assistant Professors:* J. L. Garcia, L. C. Mullins; *Visiting Professor:* W. Vasey; *Other Faculty:* B. Burton, R. Cairl, A. D. Entine, M. J. Etten, D. R. Kenerson, E. Kleine, L. Leavengood.

UNDERGRADUATE COURSES

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 3100 CULTURE, SOCIETY AND AGING (3)
This course is designed to allow the student to consider aging within the context of culture and society. Emphasis will be given to cultural attitudes toward aging in the U.S. and to implications of cultural attitudes for human behavior.

GEY 3200 APPLIED GERONTOLOGY (3)
PR: CI. This course is designed to provide an integration of empirical data in the study of aging with practical experience in working with older people. Students will spend time working with older people in an agency or institutional setting.

GEY 4900 DIRECTED READINGS (1-2)
PR: CI. A reading program with topics in gerontology conducted under the supervision of a faculty member.

GEY 4930 SEMINAR IN SELECTED TOPICS IN SOCIAL GERONTOLOGY (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.

GRADUATE COURSES

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 system 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.

GEY 5645 MID-LIFE DEVELOPMENT (4)
PR: CI. The life space of middle age is explored through an ex-

amination of the physical, social, and psychological forces which influence this period of the human life span.

GEY 6325 SOCIAL POLICY AND PLANNING FOR GERONTOLOGISTS (3)

PR: CI. This course is designed to provide an empirical and analytical base for understanding the major issues and trends involved in existing and proposed programs and services in the field of aging at local, state, and federal levels.

GEY 6350 WORKING WITH THE ELDERLY (3)

PR: CI. An introduction to personality theory and concepts of adjustment with an overview of counseling techniques and rehabilitative efforts with the aged.

GEY 6450 GERONTOLOGICAL RESEARCH AND PLANNING I (3)

PR: CI. Social research and planning methods in the field of gerontology. Directed to the consumers of research findings—persons whose positions call for the ability to interpret, evaluate, and apply the findings produced by others.

GEY 6455 GERONTOLOGICAL RESEARCH AND PLANNING II (3)

PR: CI. As a continuation of GEY 6450, this course will center on quantitative methodology as it applies to the field of gerontology. It will be aimed at preparing the student for more advanced data analysis.

GEY 6500 INSTITUTIONAL ADMINISTRATION (3)

PR: CI. This course deals with the management problems and practices in the administration of institutions in the field of aging. Consideration is given to federal and state legislation, the management of people, and fiscal management.

GEY 6600 PHYSICAL AND PSYCHOLOGICAL ASPECTS OF AGING (3)

Study of normal functioning of major organ systems of the body and basic psychological processes as related to the aging process, changes in functioning in perceptual, motor and cognitive areas from the developmental perspective.

GEY 6901 DIRECTED READINGS (1-4)

PR: CI. A reading program of selected topics under the supervision of a faculty member. May be repeated up to 4 semester hours. (S/U only.)

GEY 6910 DIRECTED RESEARCH (1-4)

PR: CI. Master's level. May be repeated up to 4 credit hours. (S/U only.)

GEY 6930, 6931, 6933 SEMINAR IN SOCIAL GERONTOLOGY (1,1,1,1)

PR: CI. Designed to give the graduate student an opportunity to integrate concepts within the field of gerontology, and relate these to other fields of study. Guest lecturers from a variety of disciplines participate in the seminar. (S/U only.)

GEY 6934 SPECIAL TOPICS IN GERONTOLOGY (2)

PR: CI. Courses on topics such as pre-retirement, mental health, human services organization and senior center administration. May be repeated for credit with different subject matter up to 6 credit hours.

GEY 6940 FIELD PLACEMENT (6)

PR: CI. Internship in an agency or setting. An assignment to an agency or organization engaged in planning or administering programs for older people or in providing direct services to older people. (S/U only.)

GEY 6971 THESIS: MASTER'S (var.)

PR: CI: Thesis: Master's (var.) Repeatable. (S/U only.)

HISTORY

Chairperson: R.P. Ingalls; *Professors:* C.B. Currey, G.H. Mayer, L.A. Perez, Jr.; *Professor Emeritus:* J.W. Silver; *Associate Professors:* J.M. Belohlavek, T.P. Dilkes, R.P. Ingalls, G.H. Kleine, S.F. Lawson, K.A. Parker, E.M. Silbert, J.M. Swanson; *Assistant Professors:* R.O. Arsenault, D.R. Carr, N.A. Hewitt, G.R. Mormino, G.K. Tipps, R.J. VanNeste; *Lecturer:* C.J. Wrong

UNDERGRADUATE COURSES

AHF 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 post-independence 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, demagoguery and disfranchisement, Southern women, and the Civil Rights Movement.
- AMH 3420 FLORIDA HISTORY** (4)
A history of Florida from Spanish discovery to the present. Examines Florida as an area of European conflict, the emergence of Florida within its regional setting, acquisition by the U.S. and subsequent political, economic and cultural growth.
- 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 3460 AMERICAN URBAN HISTORY** (4)
A study of American cities from the colonial period to the present. Through an examination of economic, political, social and physical developments, the course traces both the opportunities and problems presented by urban life.
- AMH 3500 AMERICAN LABOR HISTORY** (4)
A study of American workers from the colonial period to the present. Examines the changing nature of work, its effects on workers (including minorities and women), and their responses as expressed in strikes, unions, and political action.
- AMH 3510 U.S. DIPLOMATIC HISTORY TO 1898** (3)
The development of American Foreign Relations in the Agricultural era.
- AMH 3511 U.S. DIPLOMATIC HISTORY IN THE 20TH CENTURY** (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 old-world backgrounds of immigrants and their responses to the new world's social, economic and political conditions.
- AMH 3540 UNITED STATES MILITARY HISTORY** (4)
A study of American military policy and practices from colonial days to the present. Attention is given both to tactics and to strategy in the unfolding formulation and development of American armed might.
- AMH 3545 WAR AND AMERICAN EMPIRE** (4)
The U.S. evolved in 200 years from 13 colonies to the number one power in the world. To achieve this goal we utilize war to achieve empire. This course will examine the link between American war and empire from the Revolution through Viet Nam.
- 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 3403 ANCIENT AND IMPERIAL CHINA** (4)
An historical survey of the foundation and flowering of Chinese civilization with primary emphasis on cultural, intellectual, and institutional elements, from the paleolithic period to the early Manchu Dynasty (17th century).
- 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 2101, 2102 ANCIENT HISTORY I, II** (3,3)
An introductory survey of ancient history. EUH 2101 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 2102 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 2121, 2122 MEDIEVAL HISTORY I, II** (3,3)
A thematic survey of the Middle Ages. EUH 2121 deals with the nascent, Christian civilization of European, circa 300-1050 A.D.; EUH 2122 treats the mature medieval civilization of Europe, circa 1050-1500.
- EUH 2200, 2201 MODERN EUROPEAN HISTORY I, II** (3,3)
A thematic survey of Europe in the modern age. EUH 2200 treats the period from the Renaissance to the French Revolution; EUH 2201, 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)
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 ABSOLUTISM AND ENLIGHTENMENT** (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 HELLENISTIC GREECE** (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 Rome from the assassination of Julius Caesar in 44 B.C. to the death of the emperor Constantine in A.D. 337. Emphasized is Rome's government of a vast Mediterranean empire including much of the Near East and Europe.
- EUH 3461 GERMAN HISTORY TO 1870** (4)
A political, social, and cultural approach to the history of the Germans from 1500 through 1870, with emphasis on the Protestant Reformation, the rise of Brandenburg-Prussian, and the unification under Bismarck.
- EUH 3462 GERMAN HISTORY 1870 TO PRESENT** (4)
A political, social and cultural approach to the history of the German Empire from 1870 through the 1970's. The nation's two attempts to try for world power status are highlighted, as well as the Weimar Republic, prototype of the embattled democracy.
- EUH 3501 BRITISH HISTORY TO 1688** (4)
A study of major developments in British history from the 15th century to 1688.
- EUH 3502 BRITISH HISTORY 1688 TO PRESENT** (4)
A study of the major themes of British history since the Glorious Revolution including social, political, and economic developments leading to the creation of the modern democratic 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 3461 SCIENCE AND CIVILIZATION** (4)
A thematic study of the interrelationship of science and society in modern history emphasizing the institutional forms, value structures, and social relations in science as they have developed from the scientific revolution to the present.
- HIS 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 4152 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 4153 ORAL HISTORY** (3)
A study of the craft and technique of Oral History. The course focuses on a number of historical studies which have utilized interviews as an instrument of historical research. Students will be expected to complete original field research.
- 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.
- LAH 3021 SPAIN, PORTUGAL, AND IBERIAN EMPIRES** (4)
A study of peoples of the Iberian peninsula from the late medieval period to 1898. Emphasis falls on emergence of the Iberian states and the rise of the Spanish-Portuguese empires in the Western Hemisphere from 1492 to 1898.
- LAH 3022 MODERN LATIN AMERICA** (4)
A study of the emergence of the Latin American states. The course will examine developments in Latin American 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.
- LAH 3600 HISTORY OF BRAZIL** (4)
Brazil from the 16th century to the present. Emphasis on the Portuguese conquest and settlement, emergence of the Empire and republic, the 20th century quest for modernity and leadership in Latin America.
- WOH 3270 REVOLUTIONS IN THE MODERN WORLD** (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** (4)
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** (4)
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 2011, 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 2011, 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.)

GRADUATE COURSES

- HIS 6085 INTERNSHIP IN HISTORY** (1-4)
PR: CI. Supervised field placement in a local agency involved in historical planning and preservation. Students will receive practical experience in the fields of archival management, architectural preservation, and state and local research. (S/U only.)
- HIS 6112 ANALYSIS OF HISTORIC KNOWLEDGE** (4)
PR: Graduate standing. A study of History as a form of knowledge with emphasis on explanatory models and the relationships of social science theory to the problems of historical analysis.
- HIS 6904 DIRECTED RESEARCH** (var.)
PR: GR. Master's level. Repeatable. (S/U only.)
- HIS 6908 INDEPENDENT STUDY** (var.)
Independent study in which students must have a contract with an instructor. Repeatable. (S/U only.)
- HIS 6920 COLLOQUIUM IN HISTORY** (4)
A readings and discussion course organized around an in-depth examination of selected topics within the fields. Emphasis of the course is on the review of the historiographical, methodological, and interpretative advances as they affect the topics under study. Repeatable as topics vary.
- HIS 6939 SEMINAR IN HISTORY** (4)
Research in selected topics within the fields selected by the instructor. Repeatable as topics vary.
- HIS 6971 THESIS: MASTER'S** (var.)
Repeatable. (S/U only.)

HUMAN SERVICES

Coordinator: T.A. Rich; *Faculty:* J.L. Garcia, A.S. Gilmore, D.R. Kenerson, J.I. Kosberg, W.P. Mangum, S.V. Saxon; *Visiting Professor:* W.Vasey

UNDERGRADUATE COURSES

- 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 3502 (Formerly HUS 3300) SOCIAL POLICY IN THE UNITED STATES** (3)
PR: HUS or CI. Historical development of social policy in the United States. The impact of industrialization and urbanization on the individual and family. The changing roles of family, community, state, nation and current issues.
- 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.
- 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.

GRADUATE COURSES

- HUS 5325 INTERVENTION TECHNIQUES (Formerly HUS 5224)** (3)
PR: HUS 3001 or CI. Attention will be given to techniques of in-

tervention at individual, small group, and community levels. The need for crisis intervention program in modern society.

HUS 5505 MINORITY AGING

This course treats the general issues, concerns and problems relevant to researchers and practitioners in the field of minority aging. Available to both majors and non-majors.

INTERNATIONAL STUDIES

Director: M.T. Orr; *Professors:* C.W. Arnade, F.J. Ohaegbulam, M.T. Orr; *Professors Emeritus:* J.W. Palm, R.A. Warner; *Associate Professors:* A. Hechiche, H.W. Nelsen, S.M. Stoudinger; *Assistant Professor:* D. Slider; *Assistant Professor Emeritus:* J.W. Palm; *Lecturer:* J.O. Bell

UNDERGRADUATE COURSES

AREA STUDIES

These multidisciplinary area study courses (AFS 3930, ASN 3000, ASN 3030, EUS 3000 and LAS 3001) deal with one or more countries of a region and will selectively emphasize their anthropological, economic, geographic, historical, religions, political and sociological aspects, and current problems. Each course may be repeated when countries of concentration vary.

- AFS 3930 AFRICA** (3)
ASN 3000 ASIA (3)
ASN 3030 THE MIDDLE EAST (3)
EUS 3000 EUROPE (3)
LAS 3001 LATIN AMERICA (3)
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 offered under African and Afro-American Studies.)

ASN 3012 JAPAN TODAY

An introduction to modern Japan and its world role, drawing upon insights provided by the social and behavioral sciences. Emphasis is placed upon Japan's foreign relations.

ASN 3014 CHINA TODAY

A multidisciplinary study of contemporary (1949-present) China's political and economic development, foreign affairs, social system and culture.

EUS 3022 SOVIET UNION TODAY

A multidisciplinary study of Soviet life and the Soviet citizen today and their impact on the role of the Soviet Union in the world.

INR 2085 WORLD TENSIONS

A study of the major causes and consequences of critical tensions which lead to serious social disturbances between and within the independent states of the world.

INR 3141 INTERNATIONAL NUCLEAR POLICY

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

An examination of the role of intelligence and the intelligence community in U.S. foreign policy, with emphasis on the period since World War II.

INR 3503 THE UNITED NATIONS AND PEACE

Study and analysis of the continuing development of the United Nations, using current major issues to understand its role as a harmonizing forum for conflicting political systems and ideologies.

INR 4083 READINGS SEMINAR IN SINO-SOVIET RELATIONS

A readings seminar on the origin, development, present status, and future possibilities of Sino-Soviet relations, focusing on the period since 1956, and broader international ramifications.

SSI 1211 WORLD PERSPECTIVE

An interdisciplinary study of the international system, major world regions and problems.

SSI 2261 WORLD IDEOLOGIES

A course which details and examines the ideologies of today's independent countries; analyzing them in their political, social, cultural and historical context.

SSI 3128 ENERGY AND FOREIGN POLICY

A multidisciplinary study of the interrelationship of energy policy and foreign policy.

SSI 3221 AMERICA'S ROLE IN THE WORLD (3)

A multidisciplinary study of America's role in world affairs, emphasizing current problems and issues in the formulation and implementation of foreign policy.

SSI 3242 INTERNATIONAL TERRORISM (3)

A study of contemporary international terrorism and its causes, ranging from national liberation movements to networks of philosophical anarchists.

SSI 3260 COMMUNISM IN THE MODERN WORLD (3)

An interdisciplinary study of the theory and practice of Communism in the world today.

SSI 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.

SSI 3930 SELECTED TOPICS (1-4)

Interdisciplinary studies with course content dependent on student demand and instructor's interest. May be repeated as topics vary.

SSI 3955 OVERSEAS STUDY (1-6)

A program of individual or group research in a foreign country.

SSI 4250 THE EMERGING NATIONS (3)

A multidisciplinary study of the efforts of third world nations to improve their status through economic development.

SSI 4900 DIRECTED READINGS (1-3)

PR: CI. A supervised program of intensive reading of interdisciplinary materials in areas of specific interest. May be repeated.

SSI 4910 DIRECTED RESEARCH (1-3)

PR: CI. A supervised program of interdisciplinary research in areas of specific interest. May be repeated.

SSI 4936 SENIOR SEMINAR (3)

PR: Senior standing and CI. To provide an integrating seminar experience for majors in International Studies.

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.)

OFF-CAMPUS TERM

Director: D.K. Lupton

UNDERGRADUATE COURSES**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 PROJECT (1-2)

PR: OCT Program approval. (S/U only.)

POLITICAL SCIENCE

Chairperson: R.A. Catlin; Professor: S.A. Barber, R.L. Bowman, J.E. Jreisat; Associate Professor: R.A. Catlin, R. Factor, F.J. Horrigan, W.E. Hulbary, A.E. Kelley, A.B. Levy, M.E. O'Donnell, D. Paulson, J.B. Snook, H.E. Vanden; Assistant Professor: J.E. Benton, L.P. Hirsch, P.N. Rigos, F.W. Swierczek; Visiting Faculty: Professor: J.R. Watson; Other Faculty: K. Glover

UNDERGRADUATE COURSES**CPO 3002 INTRODUCTION TO COMPARATIVE POLITICS (4)**

Comparison and analysis of representative European and non-Western political systems.

CPO 4034 POLITICS OF THE DEVELOPING AREAS (4)

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 (4)

Studies political systems with common elements. Structure, process, domestic and foreign politics, and regional roles are considered. May be repeated up to 12 credit hours as topics vary.

INR 3002 INTRODUCTION TO INTERNATIONAL RELATIONS (4)

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 (4)

Analysis of the development and scope of United States foreign policy, emphasizing goals and objectives, policy formulation and implementation, themes and issues.

INR 4334 DEFENSE POLICY (4)

Analytic institutional factors contributing to formulation of defense policy and the impact of such policy on international relations.

INR 4403 INTERNATIONAL LAW (4)

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 (4)

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.

PAD 3003 INTRODUCTION TO PUBLIC ADMINISTRATION (4)

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 (4)

Analysis of problems in the growth and development of public budgetary theory and Federal budgetary innovations.

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 (4)

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 (4)

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 (4)

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 (4)

A study of Florida political culture, political parties and elections, the legislative, executive, and judicial systems, and policy patterns. Open to majors and non-majors.

POS 3273 PRACTICAL POLITICS (4)

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 (4)

The organization, development, and mechanical functioning of American court systems and the causes and consequences of judicial behavior from an empirical perspective.

POS 3453 POLITICAL PARTIES AND INTEREST GROUPS (4)

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 (4)

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** (4)
Fundamentals of empirical political inquiry: systematic data collection and quantitative analysis techniques. Laboratory exercises using the computer are required.
- POS 4165 COMMUNITY LEADERS AND POLITICS** (4)
Analysis of the roles and powers of mayors, city managers, council members, and interest ethnic groups; distribution of community power.
- POS 4204 POLITICAL BEHAVIOR, PUBLIC OPINION, AND ELECTIONS** (4)
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** (4)
The presidency as a political institution; analysis of powers; legislative, administrative, political, and foreign policy leadership; crisis management and decisionmaking; White House staffing; limits on power.
- POS 4424 THE AMERICAN CONGRESS** (4)
Organization, procedures, committee system, party leadership, relations with governmental and non-governmental organizations and agencies, oversight, decision-making processes, House/Senate comparisons.
- POS 4614 CONSTITUTIONAL LAW I** (4)
PR: POS 2041. Leading social problems, principle institutions, and the scope of powers. Analysis of Supreme Court decision, scholarly commentaries, and the writings of leading public figures.
- POS 4624 CONSTITUTIONAL LAW II** (4)
PR: POS 2041. Analysis of Supreme court decisions and scholarly commentaries on the constitutional rights of individuals.
- POS 4693 WOMEN AND THE LAW** (4)
Issues concerning the legal aspects of sex and sex-based discrimination as embodied in statutory and case law. Open to majors and non-majors. (Also offered under Women's Studies.)
- POS 4905 INDEPENDENT STUDY** (1-4)
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** (1-6)
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** (4)
PR: Senior standing and CI. An opportunity to work with others in a seminar format, exploring specialized topics.
- POS 4941 FIELD WORK** (4)
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** (4)
PR: Admission to Honor option. Writing of honor thesis under direction of faculty members.
- POT 3003 INTRODUCTION TO POLITICAL THEORY** (4)
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** (4)
Analysis of basic ideas of Plato, Aristotle, Cicero, St. Thomas, and other leading pre-modern political philosophers.
- POT 4054 MODERN POLITICAL THEORY** (4)
Analysis of basic political ideas of Machiavelli, Hobbes, Lock, Rousseau, Burke, and other modern philosophers.
- POT 4064 CONTEMPORARY POLITICAL THOUGHT** (4)
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** (4)
Examines political writings in the U.S. and responses to critical periods in history, beginning with the Founding and culminating in recent contributions and understanding contemporary political problems and solutions.
- PUP 4534 HOUSING AND GOVERNMENT** (4)
Analyses of political and administrative aspects of housing policy formation and delivery system; and the role of government in housing policy.

- URP 4050 CITY PLANNING AND COMMUNITY DEVELOPMENT** (4)
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.

GRADUATE COURSES

- CPO 5934 SELECTED TOPICS IN COMPARATIVE POLITICS** (4)
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.
- CPO 6007 SEMINAR IN COMPARATIVE POLITICS** (4)
Extensive examination of the major theories and approaches used in the study of comparative politics. Seminar format.
- CPO 6036 POLITICS OF DEVELOPING AREAS** (4)
Advanced study of ideologies, politics, political institutions, and the socio-economic conditions that influence them in developing nations.
- INR 5086 ISSUES IN INTERNATIONAL RELATIONS** (4)
Explores specific topics and provides the student with an opportunity for indepth study of historical and contemporary problems in international politics. May be repeated for credit as topics vary.
- INR 6007 SEMINAR IN INTERNATIONAL RELATIONS** (4)
Advanced study of international relations, including survey of basic literature, analysis of numerous theoretical and methodological approaches, and analysis of major issues.
- INR 6107 AMERICAN FOREIGN POLICY** (4)
Objectives, formulation, and execution of foreign policy; critical issues and problems confronting the United States. Study of various conceptual, methodological, and theoretical approaches.
- PAD 5035 ISSUES IN PUBLIC ADMINISTRATION AND PUBLIC POLICY** (4)
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** (4)
PR: URP 4050 or URP 6056. Analysis of basic concepts, issues, and strategies of planning; policy determination, collection of information, and decision-making.
- PAD 5417 PUBLIC PERSONNEL ADMINISTRATION** (4)
A study of the major functions in public personnel, including recruiting, selection, testing, training, and development, and employee and human relations in the public service.
- PAD 5605 ADMINISTRATIVE LAW** (4)
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** (4)
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 5807 ADMINISTRATION OF URBAN AFFAIRS** (4)
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** (4)
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.
- PAD 6037 BUREAUCRACY AND PUBLIC POLICY** (4)
Analysis of the formal, informal, and societal characteristics of public bureaucracies. A study of the implementation of public policy by bureaucratic agencies.
- PAD 6060 SEMINAR IN PUBLIC ADMINISTRATION** (4)
Examination of major theoretical and practical developments in public administration with focus on organization theory and current research trends in the field.
- PAD 6105 SEMINAR IN PUBLIC ORGANIZATIONAL CHANGE** (4)
Introduction to problems, diagnosis, strategies, and methodology of changing public organizations.
- PAD 6207 PUBLIC FINANCIAL ADMINISTRATION** (4)
An examination of the fiscal organization of federal, state and local

governments. Current problems in budgeting, revenue and indebtedness are considered.

- PAD 6228 STATE AND LOCAL BUDGETING** (4)
An examination of the budgetary systems and practices of state and local governments with emphasis on preparation, authorization, execution and control.
- PAD 6306 URBAN POLICY ANALYSIS** (4)
Examination of the organizational and administrative aspects of planning, program development, reporting and evaluation at local levels by state, regional, and other agencies.
- PAD 6327 SEMINAR IN PROGRAM EVALUATION** (4)
Focus on program cycle-planning, development, implementation and evaluation, needs assessment, goal setting, designing alternative program structures, and grant writing.
- POS 5094 ISSUES IN AMERICAN NATIONAL AND STATE GOVERNMENT** (4)
Selected topics of study in American government.
May be repeated for credit as topics vary.
- POS 5155 ISSUES IN URBAN GOVERNMENT AND POLITICS** (4)
Selected issues and topics in Urban Government and politics.
May be repeated for credit as topics vary.
- POS 5734 POLITICAL RESEARCH METHODS** (4)
A survey of methods, problems, and issues in political research and analysis for the advanced student.
- POS 5764 COMPUTER APPLICATIONS IN POLITICAL SCIENCE** (4)
The student will be introduced to the use of modern computers as a research tool. Computer lab component.
- POS 6045 SEMINAR IN AMERICAN GOVERNMENT AND POLITICS** (4)
Advanced study of the institutions and processes of American national government and politics.
- POS 6095 SEMINAR IN INTERGOVERNMENTAL RELATIONS** (4)
Advanced study of the interaction between the various levels of government. Interlocal processes, state and federal grants-in-aid, and their use for policy coordination will also be emphasized.
- POS 6127 ISSUES IN STATE GOVERNMENT AND POLITICS** (4)
Advance study of selected topics in institutions, processes, and behavior of American state governments and Florida government.
May be repeated as topics vary.
- POS 6157 SEMINAR IN URBAN GOVERNMENT AND POLITICS** (4)
Analysis of literature with emphasis on urban political behavior, development of various theories, and propositions regarding governmental structure and the formation and implementation of public policy.
- POS 6247 ISSUES IN POLITICAL BEHAVIOR AND SOCIALIZATION** (4)
Advanced study of selected topics in political behavior and socialization, including participation and activism, voting, public opinion, and leadership. May be repeated as topics vary.
- POS 6415 THE AMERICAN PRESIDENCY** (4)
Analysis of problems and powers of the modern Presidency with emphasis on crisis management, staffing, legislative leadership, and decision making.
- POS 6427 THE LEGISLATIVE PROCESS** (4)
Analysis of formal and informal decision-making processes in legislative bodies, with emphasis on U.S. House of Representatives and U.S. Senate. Executive-legislative conflict and cooperation; input/output analysis.
- POS 6455 POLITICAL PARTIES AND INTEREST GROUPS** (4)
Analysis of status, functions, and characteristics of political parties and interest groups as well as their interactions with political processes, actors, and institutions.
- POS 6607 CONSTITUTIONAL LAW** (4)
PR: Graduate standing or consent of instructor. Advanced study of legal, political, philosophic and methodological problems in constitutional law.
- POS 6698 SEMINAR IN LAW AND POLITICS** (4)
PR: Graduate standing. Advanced study of institutions and processes in the field of law and politics. May be repeated as instructor and content vary.

POS 6706 SCOPE AND METHODS OF POLITICAL SCIENCE (4)

Introduction to advanced study; the major approaches and methodologies for acquiring political knowledge, intellectual foundations, and applications in various subfields.

POS 6919 DIRECTED RESEARCH (var.)

PR: GR Master's level. Repeatable. (S/U only.)

POS 6909 INDEPENDENT STUDY (1-4)

PR: 3.0 average in Political Science. Specialized independent study determined by the student's needs and interests and with the consent of the instructor. (S/U only.)

POS 6934 SELECTED TOPICS IN POLITICAL SCIENCE (4)

Selected topics, issues, and problems in political science for advanced graduate students. May be repeated for credit as topics vary.

POS 6942 FIELD WORK IN POLITICAL SCIENCE AND PUBLIC ADMINISTRATION (1-6)

PR: 3.0 average in Political Science and CI. Application of research models now employed in governmental agencies, including development of a structured research proposal. Required for MPA students.

POS 6971 THESIS: MASTERS: (var.)

Repeatable. (S/U only.)

POT 5626 ISSUES IN POLITICAL PHILOSOPHY AND LAW (4)

PR: Graduate or senior standing and consent of instructor. Selected topics in political philosophy and law. May be repeated as topics vary.

POT 6007 SEMINAR IN POLITICAL THEORY (4)

PR: Graduate standing or consent of instructor. Provides students who are capable of independent work with the opportunity to explore advanced problems of political theory.

PUP 5607 PUBLIC POLICY AND HEALTH CARE (4)

The study of health care policy as it relates to the policy process in the American setting.

PUP 6007 SEMINAR IN PUBLIC POLICY (4)

Examination of public policy from a theoretical and practical decision analysis will be presented in terms of their usefulness in designing policy.

PUP 6538 GOVERNMENTAL HOUSING POLICY (4)

This course examines government involvement in housing, with special emphasis on the development and analysis of certain housing programs.

URP 5131 IMPLEMENTATION MEASURES IN URBAN/REGIONAL PLANNING I (4)

PR: URP 4050 or 6056. Basic legal concepts of land-use planning and implementation with the use of legal reference materials and academic works; zoning, subdivision regulation, public uses, and environmental issues.

URP 5132 IMPLEMENTATION MEASURES IN URBAN/REGIONAL PLANNING II (4)

PR: URP 5131. Basic contemporary and innovative concepts in land-use planning: taxation, value compensation, public facility programming, growth management policies, development rights.

URP 6056 CITY AND REGIONAL PLANNING (4)

A review of goals, objectives, and interrelationships between regional and city planning; intergovernmental and policy issues.

PSYCHOLOGY

Acting Chairperson: D.L. Nelson; *Professors:* J.M. Anker, J.L. Brown, M.W. Hardy, H.D. Kimmel, R.C. LaBarba, H.H. Meyer, C.E. Nelson, D.L. Nelson, L.A. Penner, R.W. Powell, J. Sandler, J.B. Sidowski, F. Sistrunk, C.D. Spielberger, D.E. Stenmark, P.N. Strong; *Associate Professors:* A.J. Blomquist, J.M. Clingman, S.B. Filskov, R.L. Fowler, S.J. Garcia, E.L. Gesten, B.N. Kinder, E.L. Levine, D.J. Rundus; *Assistant Professors:* J.A. Becker, M.A. Finkelstein, G.H. Ironson, W.T. Neill, W.P. Sacco, S. Shiffman; *Visiting Faculty:* R.B. Fowler, D. Schultz, P. Smith; *Other Faculty:* W.R. Biersdorf, E.B. Kimmel, G.M. St. L. O'Brien, T.A. Rich, H.J. Vetter, J.H. Williams; *Courtesy Faculty:* W.D. Anton, J. Bedell, M. Cohen, S.L. Cohen, P.W. Drash, D.A. Eberly, E. Edmunson, R. Friedman, A. Gessner, D. Huntley, E.M. Lillibridge, M. Malchon, R.L. Patterson, R.L. Ryan, J.A. Schinka, P.E. Spector, E.S. Taulbee, L.S. Zheutlin

PSYCHOLOGY

UNDERGRADUATE COURSES

- CBH 4004 COMPARATIVE PSYCHOLOGY** (3)
PR: PSY 3213 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 4143 ABNORMAL PSYCHOLOGY** (3)
PR: PSY 3213 or CI. Descriptions, theoretical explanations, research evidence, and treatment of maladaptive behavior.
- 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 or CI. Descriptions, theoretical explanations, research evidence, and treatment of maladaptive behavior.
- CLP 4414 BEHAVIOR MODIFICATION** (3)
PR: PSY 3213 and CI. Introduction to behavior analysis, and application of learning principles, behavioral measurement, research designs, and interventions in treatment settings.
- CLP 4433 PSYCHOLOGICAL ASSESSMENT** (3)
PR: PSY 3213. 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 3430.
- 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 or CI. Survey of methods, empirical findings, and theoretical interpretations in the study of human and animal development.
- EXP 4204C PERCEPTION** (3)
PR: PSY 3213 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 or CI. An examination of human and animal motivations from both physiological and psychological viewpoints.
- EXP 4404 PSYCHOLOGY OF LEARNING** (3)
PR: PSY 3213 or CI. Survey of methods, empirical findings, and theoretical interpretations in conditioning and instrumental learning.
- EXP 4523C HUMAN MEMORY** (3)
PR: PSY 3213 or CI. Survey of methods, empirical finding, 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 or CI. Applications of psychological principles to industry. Topics include: selection, training, motivation, job satisfaction, supervision, decision-making.
- PPE 4004 PERSONALITY** (3)
PR: PSY 3213 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 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 3013 GENERAL 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. Two lectures, one discussion/lab.

- 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 3013 or CI. This course considers the logic of experimental design, concept of control and the analysis of experimentally obtained data. The laboratory section provides experience applying the concepts discussed in lecture. Two lectures plus two hour lab.
- PSY 4205 EXPERIMENTAL DESIGN AND ANALYSIS** (3)
PR: PSY 3213. 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 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 division 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.
- PSY 4931 SELECTED TOPICS: SEMINAR** (3)
PR: Upper division 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 hours credit.
- PSY 4932 HONORS SEMINAR** (3)
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 nine hours credit.
- PSY 4970 HONORS THESIS** (3)
PR: Admission to honors program in psychology and CI. The student under supervision of a faculty member will formalize, conduct, analyze, and report in writing a research project in psychology.
- 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 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 3013 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.

GRADUATE COURSES

- CLP 6166 PSYCHOPATHOLOGY** (3)
PR: Admission to M.A. program in psychology or CI. Exploration of current approaches to the understanding of pathological behavior and implications for theories of personality. A survey of treatment methods is included. M.A. core course.
- CLP 6438 PSYCHOLOGICAL ASSESSMENT** (3)
PR: CI. Courses cover theory, research, and applications of psychological assessment in areas such as interviewing, intellectual and cognitive functioning, neuropsychology, and personality testing. May be repeated for credit with different subject matter.
- CLP 6477 BEHAVIORAL DISORDERS OF CHILDREN** (3)
PR: CI. Causative factors in behavior deviations common to children and adolescents. Thorough study of selected childhood mental disorders and a survey of ameliorative techniques for treating childhood behavior difficulties.

CLP 6937 TOPICS IN CLINICAL-COMMUNITY**PSYCHOLOGY**

(3)

PR: CI. Courses on topics such as humanistic psychology, community psychology, and clinical neuropsychology. May be repeated for credit with different subject matter.

CLP 7188 PSYCHOTHERAPY AND BEHAVIOR CHANGE

(3)

PR: CI. Study of the theoretical, empirical, and applied foundations of the major systems of therapeutic intervention. May be repeated for credit with different subject matter.

CLP 7379 GRADUATE SEMINAR IN**CLINICAL-COMMUNITY PSYCHOLOGY**

(1-3)

PR: CI. Seminars on topics such as psychopathology, community psychology, clinical issues, personality, and developmental psychology. May be repeated for credit with different subject matter.

DEP 6058 DEVELOPMENTAL PSYCHOLOGY

(3)

PR: Admission to M.A. program in psychology or CI. Detailed study of the development of human behavior aimed toward an understanding of early contributions to later behaviors. Effects of early experience on later behavior. M.A. core course.

EXP 6208 PERCEPTION

(3)

PR: Admission to M.A. program in psychology or CI. Current data and theory of perceptual processes. Consideration of physiological and psychological variables in perception, and applications of information theory and signal detection theory. M.A. core course.

EXP 6307 MOTIVATION AND EMOTION

(3)

PR: CI. A detailed examination of human motivation and emotion from both the physiological and psychological viewpoints. M.A. core course.

EXP 6406 LEARNING

(3)

PR: Admission to M.A. program in psychology or CI. Habituation, sensitization, classical and instrumental conditioning, generalization, discrimination, trial and error learning, problem solving. M.A. core course.

EXP 6526 HUMAN MEMORY

(3)

PR: Admission to M.A. program in psychology or CI. Review of methods, findings, and theoretical interpretations associated with the study of acquisition and retention of information. M.A. core course.

EXP 6930 TOPICS IN EXPERIMENTAL**PSYCHOLOGY**

(3)

PR: CI. Courses on topics such as operant behavior, electrophysiological methods, psychophysiology, and memory. May be repeated for credit with different subject matter.

EXP 7099 GRADUATE SEMINAR IN**EXPERIMENTAL PSYCHOLOGY**

(1-3)

PR: CI. Seminars on topics such as learning, perception, physiological psychology, cognitive processes, and quantitative methods. May be repeated for credit with different subject matter.

INP 6056 INDUSTRIAL PSYCHOLOGY

(3)

PR: Admission to M.A. program in psychology or CI. An introduction to the major areas of Industrial-Organizational Psychology including the topics of selection and placement, training, criterion development and performance appraisal, job satisfaction and motivation, and organizational theory and structure. M.A. core course.

INP 6935 TOPICS IN**INDUSTRIAL-ORGANIZATIONAL PSYCHOLOGY**

(3)

PR: CI. Courses on topics such as industrial psychology, testing in industry, human factors psychology, and training in industry. May be repeated for credit with different subject matter.

INP 7097 GRADUATE SEMINAR IN**INDUSTRIAL-ORGANIZATIONAL PSYCHOLOGY**

(1-3)

PR: CI. Seminars on topics such as industrial psychology, evaluation of performance in industry, and human factors. May be repeated for credit with different subject matter.

PPE 6058 PERSONALITY

(3)

PR: Admission to M.A. program in psychology or CI. Traditional and current theory and research in the area of personality. M.A. core course.

PSB 6056 PHYSIOLOGICAL PSYCHOLOGY

(3)

PR: Admission to M.A. program in psychology or CI. Neural and physiological foundations of behavior. Structure and function of the central nervous system. Physiological basis of learning, motivation in subhumans and humans. M.A. core course.

PSY 6217 RESEARCH METHODS AND MEASUREMENT

(4)

PR: CI. Courses in research strategies, design and analysis, and

measurement theory in psychological experimentation. Inferential statistics, correlational methods, and interpretation. May be repeated for credit with different subject matter.

PSY 6218 GRADUATE RESEARCH METHODS

(1-3)

Special course to be used primarily for the training of graduate research assistants. Variable credit, repeatable. Limited to a cumulative total of five credits per student. (S/U only.)

PSY 6907 INDEPENDENT STUDY

(var.)

Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

PSY 6946 PRACTICUM AND INTERNSHIP IN CLINICAL PSYCHOLOGY

(1-5)

PR: CI. Supervised training in community and university settings in the application of psychology. May be repeated for credit.

PSY 6947 GRADUATE INSTRUCTION METHODS

(1-3)

Special course to be used primarily for the training of graduate teaching assistants. Variable credit, repeatable. Limited to a cumulative total of five credits per student. (S/U only.)

PSY 6971 THESIS: MASTER'S

(var.)

Repeatable. (S/U only.)

PSY 7780 PROGRAM EVALUATION

(3)

PR: PSY 6217 A & B or CI. CLP 6348, SOP 6669 desirable. An overview of principles and practices of program evaluation, including historical background, purposes and methods, planning and implementation, political context, ethics, and utilization.

PSY 7908 DIRECTED READINGS IN PSYCHOLOGY

(1-15)

PR: CI. An advanced reading program of selected topics in Psychology under the supervision of a psychology faculty member. The reading program is designed to meet the individual requirements and interest of graduate students in Psychology, with selected topics chosen by the student in close collaboration with a faculty member. May be repeated for credit.

PSY 7918 DIRECTED RESEARCH

(var.)

PR: GR. Ph.D. level. Repeatable. (S/U only.)

PSY 7931 SEMINAR IN ETHICS AND PROFESSIONAL PROBLEMS

(3)

PR: Second year in Ph.D. program in psychology or CI. Ethical issues and professional problems in the practice of psychology.

PSY 7940 PRACTICUM IN PROGRAM EVALUATION

(3)

PR: PSY 7800 or CI. Supervised training in program evaluation within community agencies.

PSY 7980 DISSERTATION: DOCTORAL

(var.)

PR: Must be admitted to Doctoral Candidacy. Repeatable. (S/U only.)

SOP 6059 SOCIAL PSYCHOLOGY

(3)

PR: Admission to M.A. program in psychology or CI. Overview of theory and research in social psychology. Attitudes, values, group processes, leadership, conformity, social learning and motivation. M.A. core course.

SOP 6669 TOPICS IN SOCIAL-ORGANIZATIONAL PSYCHOLOGY

(3)

PR: CI. Courses on topics such as experimental social psychology, organizational psychology, attitudes, and group process. May be repeated for credit with different subject matter.

SOP 7609 GRADUATE SEMINAR IN**SOCIAL-ORGANIZATIONAL PSYCHOLOGY**

(1-3)

PR: CI. Seminars on topics such as social psychology, scientific communication, and decision making. May be repeated for credit with different subject matter.

REHABILITATION COUNSELING

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

GRADUATE COURSES

EGC 5065 REHABILITATION: CONCEPTS AND THEORETICAL ISSUES

(4)

An introduction to the rehabilitation process in the public and private sector. An integration of concepts and procedures from the medical, socio-psychological, and human service disciplines.

ECG 5376 MEDICAL ASPECTS OF DISABILITY

(4)

A survey of medical conditions and disabilities encountered by

rehabilitation counselors. Examines the relationship of client handicaps to rehabilitation programming.

EGC 5493 SEMINAR IN PRINCIPLES AND PRACTICES OF REHABILITATION COUNSELING I (3)

PR: CI. Counseling and case management procedures appropriate to meeting the needs of handicapped individuals in the rehabilitation process. 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 ASPECTS OF REHABILITATION COUNSELING I (4)

PR: CI. Focuses on the utilization of one's self in the counseling relationship. Emphasis is on the experiential exploration and development of interpersonal skills.

EGC 5850 PRACTICUM I (1)

PR: CI. Supervised experience and participation in counseling in a variety of rehabilitation settings. 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.

EGC 6205 EVALUATION IN THE REHABILITATION PROCESS (4)

PR: CI. Examines assessment procedures utilized in the rehabilitation process and critical issues in the evaluation of the handicapped.

EGC 6374 VOCATIONAL EVALUATION AND ADJUSTMENT SERVICES OF THE HANDICAPPED AND DISADVANTAGED (4)

An introduction to various systems of vocational evaluation including work samples, situational assessment and on-the-job evaluation. Includes adjustment services.

EGC 6375 PLACEMENT METHODS AND PROCESSES (4)

PR: CI. An in-depth examination of placement methods and processes with handicapped individuals. Includes a survey of work requirements in different occupations and how these relate to specific functional limitations.

EGC 6417 APPLICATIONS OF LEARNING PRINCIPLES (4)

PR: CI. Application of various learning principles and procedures to special problems encountered in rehabilitation.

EGC 6468 PSYCHOSOCIAL ASPECTS OF DISABILITY IN REHABILITATION COUNSELING (4)

PR: CI. Personal, social, psychological, and environmental aspects of disability in America relevant to rehabilitation counseling with handicapped individuals.

EGC 6470 PRACTICUM IN APPLIED ALCOHOL ABUSE IN REHABILITATION COUNSELING (4)

PR: EGC 5496. An extension of EGC 5496 with emphasis on field work in alcoholism and alcoholism treatment.

EGC 6476 REHABILITATION OF THE DEAF AND HEARING IMPAIRED: ASSESSMENT AND EVALUATION (4)

PR: SPA 2001, SPA 4333, SPA 4363, SPA 4050, EGC 6205, EGC 6374 or CI. An in-depth examination of assessment and evaluation issues in the rehabilitation of the deaf and hearing impaired.

EGC 6477 REHABILITATION OF THE DEAF AND HEARING IMPAIRED: COUNSELING AND CASE MANAGEMENT (4)

PR: EGC 6476, EGC 6727, SPA 6335, or CI. Procedures and processes of case management and counseling for deaf clientele.

EGC 6494 SEMINAR IN PRINCIPLES AND PRACTICES OF REHABILITATION COUNSELING II (3)

PR: EGC 5493, EGC 5850. Continuation of EGC 5493. Must be taken concurrently with EGC 6851. (S/U only.)

EGC 6497 THEORETICAL AND EXPERIENTIAL APPROACHES TO COUNSELING THE ALCOHOL ABUSER (4)

PR: EGC 5496 and CI. An extension of EGC 5496 with emphasis on experiential approaches to counseling the alcohol abuser.

EGC 6566 GROUP WORK IN REHABILITATION COUNSELING (4)

PR: CI. Theoretical and empirical issues of group process are examined

in the context of an ongoing group. Emphasis is on application to counseling.

EGC 6567 ADVANCED GROUP WORK IN REHABILITATION COUNSELING (4)

PR: CI. Extension of EGC 6566 with emphasis on field work.

EGC 6727 INTERPERSONAL ASPECTS OF REHABILITATION COUNSELING II (4)

PR: EGC 5725. An extension and intensification of skills developed in EGC 5725.

EGC 6767 RESEARCH IN REHABILITATION (4)

PR: CI. The evaluation and utilization of available research studies and the development of research skills. An individual research project is required.

EGC 6851 PRACTICUM II (1)

PR: EGC 5493, EGC 5850. Continuation of EGC 5850. Must be taken concurrently with EGC 6494. (S/U only.)

EGC 6885 INTERNSHIP IN REHABILITATION (8)

PR: CI. Student placement in an approved intern setting for a minimum of 600 hours of supervised experience. (S/U only.)

EGC 6906 INDEPENDENT STUDY (var.)

Independent study in which student must have a contract with an instructor. Repeatable. (S/U only.)

EGC 6915 DIRECTED RESEARCH (var.)

PR: GR. Master's level. Repeatable. (S/U only.)

EGC 6934 SEMINAR IN REHABILITATION COUNSELING (1-4)

PR: CI. Selected issues and problems in rehabilitation counseling with subject and scope to be determined by instructor. May be repeated for credit with different content.

EGC 6971 THESIS: MASTER'S (var.)

Repeatable. (S/U only.)

SOCIAL SCIENCES (INTERDISCIPLINARY)

Chairperson: M.T. Orr; *Professors:* C.W. Arnade, T.J. Northcutt, JR., F.U. Ohaegbulam, M.T. Orr, J.H. Williams; *Professors Emeritus:* John w. Palm, R.A. Warner; *Associate Professors:* A. Hechiche, M. Myerson, H.W. Nelson, J. Ochshorn, J.B. Snook, S.M. Stoudinger; *Assistant Professor:* D. Slider; *Assistant Professor Emeritus:* J.W. Palm; *Lecturers:* J.O. Bell, D.K. Lupton

UNDERGRADUATE COURSES

SSI 4162 THE CITY AND MAN (3)

An interdisciplinary study of selected urban problems.

SSI 4164 SOCIAL ISSUES OF OUR TIME (3)

An interdisciplinary study of selected social issues of today.

STA 3122 SOCIAL SCIENCE STATISTICS (3)

A study of statistical terms and methods to provide students with comprehension thereof, enable them to use statistics in research, and understand their use in professional social science journals.

GRADUATE COURSES

SSI 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.

SSI 6900 DIRECTED READINGS (1-3)

PR: CI and graduate status. A supervised program of intensive reading of interdisciplinary materials of specific interest. May be repeated.

SSI 6910 DIRECTED RESEARCH (var.)

PR: GR. Master's level. Repeatable. (S/U only.)

SOCIAL WORK

Chairperson: P.L. Smith; *Professor:* G. St. L. O'Brien; *Associate Professors:* W.S. Hutchison, Jr., F.C. Johnson, J.C. Renick, P.L. Smith; *Assistant Professors:* R. Martin, R. Willets, B.L. Yegidis; *Visiting Faculty:* Professor: W. Vasey; *Instructor:* A.J. Floyd; *Courtesy Faculty:* Professor: J. Kosberg; *Instructor:* L. Middleton

UNDERGRADUATE COURSES

SOW 3101 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I (3)

PR: All pre-core courses and SOW 3203. Restricted to Social Work majors, others by Department permission. An integrating human behavior-social environment course emphasizing dynamics of behavior and environment 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 INTRODUCTION TO SOCIAL WELFARE AND SOCIAL WORK (4)

An introductory course tracing the development of the American social welfare system and the development of social work as a major profession within that system.

SOW 3403 RESEARCH AND STATISTICS FOR SOCIAL WORK (4)

PR: All pre-core courses and SOW 3203. 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 3403. Restricted to Social Work majors; others by Department permission. Practice course emphasizing development of skills from practicum knowledge. Interventive methods with individuals, families and small groups. Some agency field work required.

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. Some agency field work required.

SOW 4361 SENIOR SEMINAR (3)

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 4510 FIELD PLACEMENT (10)

PR: Completion of all social work core courses except SOW 4361. Restricted to social work majors in Senior year. Supervised field placement in a social welfare organization consisting of 35 hours per week in the field and 3 hours per week in an integrated practice seminar which constitutes the third and final course in the practice sequence.

SOW 4900 DIRECTED READINGS (1-6)

PR: Completion of four social work courses including SOW 3403, upper division 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 and approved by Program Chairperson. 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 students' educational interest.

GRADUATE COURSES

SOW 6105 NORMATIVE DEVELOPMENT AND THE SOCIAL ENVIRONMENT (4)

PR: Consent of chairperson. Interaction of biological, psychological, social, and cultural environments on growth and adaptation.

SOW 6121 THEORETICAL PERSPECTIVES ON DYSFUNCTIONING (3)

PR: Consent of chairperson. Addresses the spectrum of psychosocial responses to disease, injury, developmental disabilities and stress of both chronic and acute states; identifies major forms of psychopathology and central modes of adaptation.

SOW 6126 DYNAMICS OF DYSFUNCTIONING IN CHILDREN AND YOUTH (2)

PR: Consent of chairperson. Specific disease, injury and stress states; etiology and typical response patterns. Parallels dysfunctional states addressed concurrently in treatment course.

SOW 6129 DYNAMICS OF DYSFUNCTIONING IN THE ADULT AND ELDERLY (2)

PR: Consent of chairperson. Study of specific dysfunctional states; etiology and typical response patterns. Parallels dysfunctional states addressed in concurrent treatment course.

SOW 6235 TRENDS AND ISSUES IN SOCIAL POLICY AND SERVICES (4)

PR: Consent of chairperson. Examines historical themes and analyzes programmatic development of present American social welfare system. Attention given to policy-clinical practice interaction.

SOW 6356 TREATMENT METHODS WITH CHILDREN AND YOUTH (2)

PR: Consent of chairperson. Differential psychosocial treatment related to various dysfunctional states with children and youth. Parallels dysfunctional states addressed in concurrent behavior course.

SOW 6359 TREATMENT METHODS WITH ADULTS AND THE ELDERLY (2)

PR: Consent of chairperson. Differential psychosocial treatment related to various dysfunctional states encountered in field with adults and the elderly. Parallels dysfunctional states addressed in concurrent behavior course.

SOW 6360 SOCIAL WORK PRACTICE: THE PSYCHOSOCIAL PERSPECTIVE (5)

PR: Consent of chairperson. Historical development of knowledge, skills and ethics of the profession. Psychosocial model of clinical practice is emphasized. Primary focus on individual modality.

SOW 6362 INDIVIDUAL, FAMILY AND GROUP TREATMENT I (3)

PR: Consent of chairperson. Emphasizes selection of techniques of the psychosocial model of treatment. Primary focus on family, couple, and parent-child problems. Group treatment modalities are introduced.

SOW 6368 INDIVIDUAL, FAMILY AND GROUP TREATMENT II (3)

PR: Consent of chairperson. Continuation of SOW 6362. Primary focus on psychosocial model of group treatment. Comparison with individual and family modality.

SOW 6404 SOCIAL WORK MEASUREMENT AND DESIGN (3)

PR: Consent of chairperson. Assumes competence in fundamental techniques of descriptive and inferential statistics. Organized around modules and structured exercises designed to stimulate research issues and processes found in social work settings.

SOW 6432 MICRO AND MACRO RESEARCH EVALUATION (3)

PR: Consent of chairperson. Projects and exercises designed to simulate typical practice problems are coordinated. Prepares student for the field research project.

SOW 6435 FIELD RESEARCH (3)

PR: Consent of chairperson. Formal mechanism, under Departmental supervision, for conducting required agency-based research on some aspect of the agency's target population or service delivery system. (S/U only.)

SOW 6534 FIELD INSTRUCTION I (4)

PR: Consent of chairperson. Supervised field instruction in a social service agency consisting of approximately 20 hours per week plus a 2 hour practice seminar.

- SOW 6535 FIELD INSTRUCTION II** (6)
PR: Consent of chairperson. Supervised field instruction in a social service agency consisting of approximately 32 hours per week plus a 2 hour practice seminar.
- SOW 6536 FIELD INSTRUCTION III** (4)
PR: Consent of chairperson. Supervised field instruction in a social service agency consisting of approximately 20 hours per week plus a 2 hour practice seminar.
- SOW 6931 SELECTED TOPICS IN SOCIAL WORK** (1-4)
PR: CI. Restricted to MSW students; others by Department permission. Variable topic courses will selectively expand on the four sequence areas in the social work curriculum.

SOCIOLOGY

Chairperson: R.G. Francis; *Professors:* W.B. Cameron, R.G. Francis, E.G. Nesman, R.H. Wheeler; *Associate Professors:* G.A. Brandmeyer, B.G. Gunter, R.A. Hansen, D.P. Johnson, H.A. Moore, S.P. Turner; *Assistant Professors:* C.S. Ellis, D.L. Jorgensen, C.L. Kaufmann, M.B. Kleiman, L.W. Kutcher; *Lecturer:* L.K. Alexander

UNDERGRADUATE COURSES

- DHE 4101 POPULATION** (3)
PR: SOC 2000 or CI; upper division standing. Sociological determinants of fertility, mortality and migration; theories of population change.
- LEI 4163 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, sub-cultures, religion, value systems, social class, and the functions of government.
- LEI 4167 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.
- MAF 2001 MARRIAGE** (3)
Study of pre-marital and marital relations. Social, cultural, and personal factors related to success and failure in mate selection and marriage. Does not count for sociology major credit.
- MAF 3501 THE FAMILY** (3)
PR: SOC 2000 or CI. Principles of family organization, social adjustment, and control. Maturation, socialization, and stability of the family.
- SOC 1020 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.
- SOC 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.
- SOC 2484 CAREERS IN SOCIOLOGY** (1)
PR: One course in sociology. An examination of sociology as a career base and a basis for general education. Employment opportunities, occupational skills taught in the several courses, and other useful aspects of sociology will be discussed. Description of the several sub-fields of specialization and a brief introduction to the courses taught in the department will lead to the student's making a tentative program schedule for his major. The value of sociology to the individual as a self-actualizing person of unique worth will be stressed. (S/U only.)
- SOC 3211 SOCIOLOGY OF RELIGION** (3)
PR: SOC 2000 or CI. Types, sources, and functions of religious behavior. Religious behavior in relation to other aspects of personality and culture.
- SOC 3410 SOCIAL STRATIFICATION** (3)
PR: SOC 2000 or CI. Social status and social stratification, social class as a factor in behavior, social mobility.
- SOC 3422 SOCIAL ORGANIZATION** (3)
PR: SOC 2000 or CI. Social organization in the broadest sense, including institutions and associations, as well as variations in role and status.
- SOC 3500 SOCIAL INVESTIGATION** (3)
PR: SOC 2000, STA 3122. Methods and techniques of social research. Design of sociological studies, collection of data, and interpretation of results.
- SOC 3612 FOUNDATIONS OF THEORY** (3)
PR: SOC 2000 or CI. Consideration of selected theories in sociology and procedures of systematic theory construction.
- SOC 3695 COMMENTARY FILM MAKING IN THE SOCIAL SCIENCES** (3)
PR: Major in the College of Social and Behavioral Sciences and CR in an upper division 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 cassettes) in the commentary film. Ethics of film making.
- SOC 3696 LABORATORY WORK IN COMMENTARY FILM MAKING IN THE SOCIAL SCIENCES** (1)
PR: SOC 3695, 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.)
- SOC 3745 RACIAL AND ETHNIC RELATIONS** (3)
PR: SOC 2000 or CI. Comparative study of interracial relations, social tensions, attitudes, and modes of adjustment in various areas of the world.
- SOC 3800 SOCIAL PSYCHOLOGY** (3)
PR: PSY 2012 or SOC 2000. Behavior of the individual human being as affected by social and cultural influences of modern society.
- SOC 4130 JUVENILE DELINQUENCY** (3)
PR: SOC 2000 or CI; upper division standing. Theories of delinquency, patterns of delinquent behavior, methods of control and treatment.
- SOC 4150 CRIMINOLOGY** (3)
PR: SOC 2000 or CI; upper division standing. Etiology of criminal behavior; law enforcement, crime in the United States; penology and prevention.
- SOC 4221 POLITICAL SOCIOLOGY** (3)
PR: SOC 2000 or CI. An examination of the social factors that affect government, politics, and political behavior.
- SOC 4230 SOCIOLOGY OF MEDICINE** (3)
PR: SOC 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.
- SOC 4261 SOCIOLOGICAL IMPLICATIONS OF INDUSTRIALIZATION** (3)
PR: SOC 2000 or CI. Socio-cultural elements which define and accompany the process of industrialization as observed in mature industrial nations.
- SOC 4262 OCCUPATIONS AND PROFESSIONS** (3)
PR: Upper division 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.
- SOC 4316 URBAN SOCIOLOGY** (3)
PR: SOC 2000 or CI; upper division standing. The social structure of the community in modern industrial societies. Analysis of community change.
- SOC 4320 COMPARATIVE RURAL SOCIOLOGY** (3)
PR: SOC 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.
- SOC 4402 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.

- SOC 4531 COMPUTERS IN SOCIOLOGICAL RESEARCH** (2)
PR: COC 3300 and STA 3122 or equivalent. Introduction to the uses of computers in sociological research. Major emphasis is upon the use of statistical packages (principally SPSS) in data analysis.
- SOC 4651 SOCIOLOGY OF THE ARTS** (3)
PR: SOC 2000 or CI; upper division standing. The creation, distribution and use of arts from a sociological perspective; the social roles involved.
- SOC 4850 COLLECTIVE BEHAVIOR** (3)
PR: SOC 2000 or CI; upper division standing. Study of the development of group and mass behavior—crowds, social movements.
- SOC 4910 INDIVIDUAL RESEARCH** (1-3)
PR: Four courses in sociology, including SOC 3500, upper division 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.*
- SOC 4930 TOPICS IN SOCIOLOGY** (3)
PR: 12 semester hours in Sociology and prior CI. May be repeated for credit. See class schedule for content.
- SOC 4935 SENIOR SEMINAR** (3)
For seniors majoring in sociology or other social sciences. Major issues in sociology, stressing theory and research.

GRADUATE COURSES

- MAF 6621 FAMILY ANALYSIS** (3)
PR: Course in Family or CI. Theory of interpersonal relations and interaction in the modern family. Analysis of functions and roles.
- SOC 5265 INDUSTRIAL SOCIOLOGY** (3)
PR: SOC 2000 or CI; upper division standing. Interaction, communication and authority in economic organizations; the factory as a social system.
- SOC 5405 SOCIAL CHANGE** (3)
PR: SOC 2000 or CI; upper division standing. Major theories of social and cultural change, and mechanisms of change in various societies.
- SOC 5804 SOCIAL INTERACTION** (3)
PR: SOC 3800 or CI; upper division standing. Interpersonal influence, complex behavior, role, conflict, and social situational factors.
- SOC 5825 SOCIOLOGY OF SMALL GROUPS** (3)
PR: SOC 2000 or CI; upper division standing. Theory of small group structure, mechanics of interaction, observation of small groups.
- SOC 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.)
- SOC 6106 DEVIANCE & CONTROL** (3)
PR: Course in criminology or juvenile delinquency or CI. Theories of control and deviance with research application in problem areas.
- SOC 6302 COMMUNITY ANALYSIS** (3)
PR: Course in Urban Sociology or CI. Theories of community and community organization. Methods of community study; problems of urban areas.
- SOC 6426 COMPLEX ORGANIZATIONS** (3)
PR: Course in Social Organizations or CI. Organizational Theory, bureaucratic models, authority, power legitimation, and types of formal organization.
- SOC 6502 METHODS OF RESEARCH** (3)
PR: Course in Social Investigation or CI. Logic and practice of research; problems of observation and data collection, data processing, and evaluation.
- SOC 6526 SOCIOLOGICAL STATISTICS** (4)
PR: STA 3122 or CI. Logic and application of parametric and non-parametric statistical analysis for sociological data.
- SOC 6606 CONTEMPORARY SOCIOLOGICAL THEORY** (3)
PR: Undergraduate course in sociological theory or CI. Emphasizes logical and conceptual dimensions of theory and theory construction.
- SOC 6699 THE COMMUNICATION OF SOCIOLOGY** (1)
PR: SOC 6502, SOC 6526, SOC 6066, or CI. Designed to help student

define and formalize more effective efforts at communicating sociology. Majors only.

- SOC 6805 SOCIAL PSYCHOLOGY SEMINAR** (3)
PR: Course in Social Psychology or CI. Stresses contemporary developments in social psychological theory and empirical research.
- SOC 6909 INDEPENDENT STUDY** (var.)
Independent study in which student must have a contract with an instructor. Repeatable; (S/U only.)
- SOC 6912 DIRECTED RESEARCH** (var.)
PR: GR. Master's level. Repeatable. (S/U only.)
- SOC 6933 SPECIAL TOPICS-SOCIOLOGY** (3)
PR: CI. Content varies according to interests of students and instructor. May be repeated for credit.
- SOC 6971 THESIS: MASTER'S** (var.)
Repeatable. (S/U only.)

WOMEN'S STUDIES PROGRAM

Director: J. Ochshorn; Professor: J.H. Williams; Associate Professors: M. Myerson, J. Ochshorn, J.B. Snook

UNDERGRADUATE COURSES

- ANT 4302 WOMEN 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 Anthropology.)
- LIT 3383 IMAGE OF WOMEN IN LITERATURE** (4)
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** (4)
Issues concerning the legal aspects of sex and sex-based discrimination as embodied in statutory and case law. Open to majors and non-majors. (May also be taken for credit in Political Science.)
- REL 3145 WOMEN AND RELIGION** (4)
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.)
- WST 2010 INTRODUCTION TO WOMEN'S STUDIES I** (3)
Survey of major issues relevant to the female experience. The women's movement: historical, psychological, sociological, anthropological perspectives.
- WST 2011 INTRODUCTION TO WOMEN'S STUDIES II** (3)
Survey of major issues relevant to the female experience: marriage and the family, sexuality, work, creativity.
- WST 3210 WOMEN IN WESTERN CIVILIZATION I** (4)
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** (4)
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 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 International Studies.)
- WST 3360 MEN AND SEXISM** (4)
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** (4)
PR: WST 2010, or WST 2011, or CI. 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

(4)

PR: WST 2010, or WST 2011, 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 History.)

WST 4320 WOMAN'S BODY/WOMAN'S MIND

(4)

PR: WST 2010, or WST 2011, or CI. The influence of the health care system on the process which socializes people to traditional sex roles.

WST 4380 HUMAN SEXUAL BEHAVIOR

(4)

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 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 4930 SELECTED TOPICS

(1-4)

PR: WST 2010 or CI. Study in special areas such as Women Writers, Southern Women, Black Women in America, Group Communications.

WST 4935 SEMINAR IN WOMEN'S STUDIES

(3)

PR: WST 2010 or CI. In-depth study of research in one or more areas of topical interest to students and staff. Research involvement by students required.



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St. Petersburg

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Fort Lauderdale

WILLIAM MALOY (1987)
Pensacola

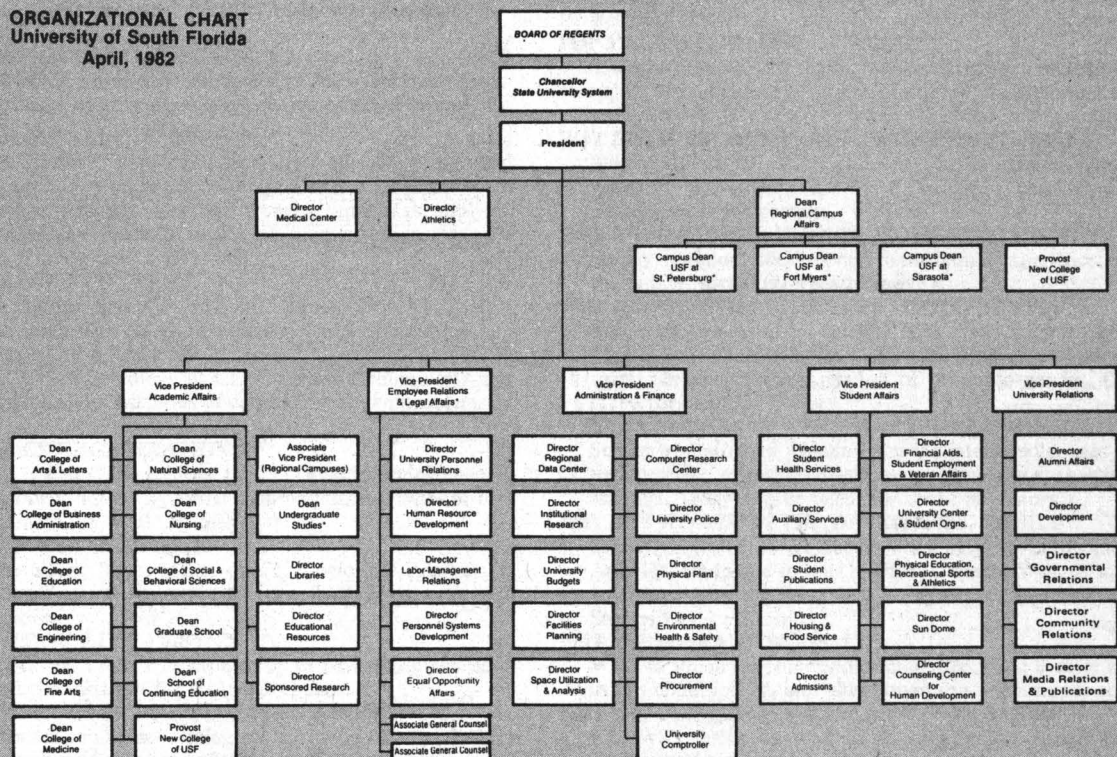
FRANK P. SCRUGGS, II (1988)
Miami

T. TERRELL SESSUMS (1988)
Tampa

State University System
BARBARA NEWELL, *Chancellor*

*term expires

ORGANIZATIONAL CHART
University of South Florida
April, 1982



UNIVERSITY OF SOUTH FLORIDA

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Adult and Vocational Education.....RAYMOND HILL
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 Reading Education.....DONALD NEVILLE
 Social Science/Letters.....ROGER JOHNSON
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 Associate Dean.....TBA
 Assistant Dean.....TBA

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 Assistant Dean/Coordinator of Advising.....JOHN SMITH

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 Dance.....LARRY BERGER
 Music.....LARRY CULLISON
 Theatre.....NANCY COLE

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and Research	CARLETON H. BAKER
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Education	FRANK J. COZZETTO
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Associate Dean for VA Affairs	JOHN T. RIGGIN, JR.
Associate Dean for Fiscal Management	
and Planning	GREGORY NICOLosi
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Assistant Dean Student Affairs	ALLAN I. LEIBOWITZ

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Biochemistry	JOSEPH G. CORY
Comprehensive Medicine	WILLIAM A. SODEMAN, JR.
Family Medicine	CHARLES E. AUCREMANN
Internal Medicine	ROY H. BEHNKE
Medical Microbiology	HERMAN FRIEDMAN
Obstetrics and Gynecology	JAMES M. INGRAM
Ophthalmology	WILLIAM E. LAYDEN
Orthopedic Surgery (Acting)	PHILLIP SPIEGEL
Pathology (Acting)	JOHN U. BALIS
Pediatrics	LEWIS A. BARNES
Pharmacology	ANDOR SZENTIVANYI
Physiology	CARLETON H. BAKER
Psychiatry	ANTHONY READING
Radiology	ARTHUR D. GRAHAM
Surgery	ROGER T. SHERMAN

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Medical Center Library	FRED BRYANT

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Geology	RICHARD A. DAVIS, JR.
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Physics (Acting)	ROBERT W. FLYNN

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Planetarium	JOE A. CARR
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Assistant Dean for Graduate Education	
and Research	ONA Z. RIGGIN

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Assistant Dean	EDWARD SILBERT
Coordinator of Advising	EDWARD SILBERT

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Communicology	STEWART KINDE
Criminal Justice	HAROLD VETTER
Economics	JOHN ROWE
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Gerontology	THOMAS RICH
History	ROBERT INGALLS
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Dean	JERRY W. KOEHLER
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Coordinator of University Research	CARL D. RIGGS
Director, Sponsored Research	A. RILEY MACON

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Social Sciences.....LASZLO DEME

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Deputy, Academic Affairs.....WILLIAM GARRETT
Director, Administration and Finance.....HERMAN J. BRAMES
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Librarian.....SAM FUSTUKJIAN

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Director, Institutional Research.....TBA
Director, Computer Research Center.....CHARLES E. FISHER
University Comptroller.....ERIC L. WALDEN
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Director, University Police.....PAUL A. URAVICH
Director, Regional Data Center.....TBA

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Associate General Counsel.....BRYAN S. BURGESS
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FACULTY AND ADMINISTRATIVE STAFF

All members of the University of South Florida faculty and administrative staff, including teaching, research, administrative and professional personnel 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 14, 1981. (A semicolon between degrees indicates different institutions.)

- ABRAM, JACQUES.....Professor (Music), 1963
Diploma with Distinction, Juilliard School of Music, 1938
- ACHENBACH, KARL E.....Assistant Professor (Psychiatry), 1979
B.A.; Ph.D., University of Florida, 1966
- ACKERMAN, DORIS J.....University Librarian (Libraries), 1969
B.A.; M.L.S., Rutgers, 1969
- ADAIR, W. LEE, JR.....Associate Professor (Biochemistry), 1975
Sc.B.; Ph.D., Georgetown University, 1972
- ADAMS, PATRICIA B.....Assistant Professor
B.S.N., M.N., University of Florida, 1974
- ADAMS, PATRICIA W.....Counselor and Adviser
(Academic Services, Undergraduate Studies), 1965
B.S.; M.Ed., University of Mississippi, 1963, Ed. G.C.
- AGETT, JOHN A.....Student Affairs Coordinator
(Financial Aids, Student Affairs), 1980
B.A.; M.S., State University of New York at Albany, 1967
- AGRESTI, DAVID L.....Assistant Professor (Criminal Justice), 1973
B.A.; M.S.W.; Ed. D., Nova University, 1980
- AHMED, NASIM.....Assistant Professor (Surgery), 1975 (part-time)
B.S.; M.D., Dow Medical College, Karachi, Pakistan, 1965
- AHRENS, VICKI W.....Student Affairs Coordinator (Entrance Standards,
Student Affairs), 1974
B.A., M.A., University of South Florida, 1975
- ALBERS, BRADLEY G.....Assistant Professor (Music-SYCOM), 1978
B.M.; M.M., D.M.A., University of Illinois, 1978
- ALEXANDER, LUELLA K.....Lecturer (Sociology), 1972
B.A.; M.A., Ohio State University, 1966
- ALEXANDER, MICHAEL D.....Clinical Psychologist (Counseling), 1975
Sarasota Campus (Part time)
B.S., M.A., Ph.D., Ohio State University, 1972
- ALEXIOU, NICHOLAS G.....Assistant Professor
(Comprehensive Medicine), 1979
A.B.; M.P.H.; M.D., University of Vermont, 1955
- ALI, ELFATIH M.....Assistant Professor (Civil Engineering
and Mechanics), 1981
B.Sc.; M.S.C.E., Ph.D., Ohio State University, 1979
- ALIX, CLETA M.....Assistant University Librarian (Libraries), 1981
B.A.; M.L.S., Louisiana State University, 1978
- ALJURE, JULIO.....Assistant Professor (Surgery), 1981
*B.A.; M.D., Premedical and Medical School at National University
Bogota, Columbia, S.A., 1962*
- ALLEN, HAROLD C.....Assistant Professor (Management), 1967
B.A.; M.B.A.; Ph.D., University of Florida, 1969
- ALLEN, JAMES L.....Professor (Engineering), 1972
B.E.E., M.S.E.E., Ph.D., Georgia Institute of Technology, 1966
- ALLEN, LOIS P.....Assistant in Research (Diabetes Center), 1980
B.S., M.S., Florida State University, 1975
- ALLEN, NOLA A.....Associate Professor (Criminal Justice), 1979
B.A., LL.B., J.D.; M.A., Ph.D., University of Notre Dame, 1979
- ALTUS, PHILIP.....Associate Professor (Internal Medicine), 1976
*A.B.; M.D., State University of New York, Upstate Medical Center,
1971*
- ALVAREZ, MARVIN R.....Professor (Biology), 1966
B.S., M.S., Ph.D., University of Florida, 1964
- AMBARDAR, VEENA.....Visiting Assistant Professor (Mathematics),
New College of USF, 1981 Sarasota Campus
*B.Sc., M.Sc.; Ph.D., Indian Institute of Technology, Delhi, India,
1975*
- AMMONS, J. MICHAEL.....Assistant Research
Scholar/Scientist (Electrical Engineering), 1980
B.A., M.S., Ph.D., University of South Florida, 1980
- ANDERSON, DAVID E.....Visiting Associate Professor (Psychiatry), 1981
B.A.; M.A., Ph.D., University of Oregon, 1966
- ANDERSON, DONALD J.....Continuing Education Center Administrator
(Regional Campus Affairs), 1967 Ft. Myers Campus
B.S.; M.A., University of South Florida, 1971
- ANDERSON, E. CHRISTIAN.....Professor (Psychological and Social
Foundations Education), 1964
B.S., M.A., Ph.D., University of Michigan, 1964
- ANDERSON, EVERETT S.....Professor (Music), 1963
B.M., M.M., Illinois Wesleyan University, 1937
- ANDERSON, JEAN R.....Department Head and University Librarian
(Libraries), 1975 Ft. Myers Campus
B.A.; M.S.L.S., Columbia University, 1961
- ANDERSON, MARIA J.....Acting Director (Student Health Services,
Student Affairs), 1978
M.D., University of Havana School of Medicine, 1961
- ANDERSON, MELVIN W.....Professor-Chairperson (Civil Engineering
and Mechanics), 1969
B.S., M.S., Ph.D., Carnegie-Mellon University, 1967, P.E.
- ANDERSON, ROBERT L.....Associate Professor (Marketing), 1971
B.S., M.S.; Ph.D., North Texas State University, 1971
- ANDREWS, ANTHONY P.....Assistant Professor (Anthropology),
New College of USF, 1981 Sarasota Campus
B.A.; M.A., Ph.D., University of Arizona, 1980
- ANDREYKA, ROBERT E.....Visiting Professor (Adult and Vocational
Education), 1979
B.S., M.S., Ph.D., Kent State University, 1969
- ANGROSINO, MICHAEL V.....Associate Professor (Anthropology), 1972
B.A.; Ph.D., University of North Carolina, 1972
- ANKER, JAMES M.....Acting Associate Vice President
(Academic Affairs), Professor (Psychology), 1974
A.B., M.A., Ph.D., Catholic University of America, 1957
- ANTON, WILLIAM D.....Director (Counseling Center,
Student Affairs), 1972
B.A., M.A., Ph.D., University of South Florida, 1975
- APPLEGATE, MINERVA I.....Associate Professor (Nursing), 1976
B.S.N.; M.Ed., Ed.D., Columbia University Teachers College, 1980
- ARENDASH, GARY W.....Assistant Professor (Biology), 1981
B.S.; Ph.D., University of California, San Francisco, 1978
- ARNADE, CHARLES W.....Professor (Interdisciplinary
Social Science), 1961
A.B., M.A., Ph.D., University of Florida, 1955
- ARSENAULT, RAYMOND O.....Assistant Professor (History), 1980
St. Petersburg Campus
B.A.; M.A., Ph.D., Brandeis University, 1980
- ARTHUR, FURMAN C.....Director (Public Affairs), Sarasota Campus, 1975
B.A., Bethany College, 1948
- AUBEL, JOSEPH L.....Associate Professor (Physics), 1964
B.S., Ph.D., Michigan State University 1964
- AUCREMANN, CHARLES E.....Associate Professor-Chairperson
(Family Medicine), 1975
A.B., M.S., M.D., Emory University School of Medicine, 1943
- AZAR, HENRY A.....Professor (Pathology), 1972
B.A., M.D., American University of Beirut, Lebanon, 1952
- BAGLEY, DANIEL S. III.....Assistant Professor
(Mass Communications), 1979
B.S.; M.B.A.; Ph.D., University of Tennessee, 1977
- BAILEY, OSCAR W.....Professor (Visual Arts), 1969
B.A., M.F.A., Ohio University, 1958
- BAKER, CARLTON H.....Associate Dean-Professor-Chairperson
(Physiology), 1971
B.A.; M.A., Ph.D., Princeton University, 1955
- BALFOUR, G. ALAN.....Associate Professor (Management), 1980
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B.S.; M.Ed., *University of Toledo, 1980*
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B.S., M.Ed.; Ed.D., *University of Florida, 1976*
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A.B.; M.A.; M.S., Ph.D., *Yale University, 1963*
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- BARTLETT, ALTON C. Professor (Management), 1967
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B.S.; M.A.; Ph.D., *Drew University, 1974*
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B.A., M.A., Ed.D., *University of Florida, 1953*
- BAUDOIN, LARRY A. Associate Business Manager (Medical Center), 1972
B.S., *Nicholls State University, 1968*
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B.S.; M.A.; Ph.D.; D.Sc., *Gettysburg College, 1974*
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- BELKNAP, DANIEL F. Assistant Professor (Marine Science), 1979 St. Petersburg Campus
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B.S., J.D., *George Washington University, 1939*
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B.A.; M.S.; Ph.D., *University of South Carolina, 1979*
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B.A.; M.D., *University of Florida, 1973*
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B.S.; Ph.D., *University of Tennessee, 1962*
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B.S., M.S., M.D., Louisiana State University, 1971
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B.E.; M.S.; Sc.D., Washington University, 1964
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B.S.; M.A.; Ph.D., Louisiana State University, 1964
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B.S., M.D., University of South Carolina, 1972
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B.S.; Ph.D., Northwestern University, 1966
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B.S., M.S., Indiana State University, 1964
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B.S., M.A., Ph.D., University of California, Los Angeles, 1962
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B.A., M.A., University of South Florida, 1980
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B.S.; M.Ed.; Ph.D., Florida State University, 1970
- BRATT, SALLY J. Assistant Professor (Physical Education, Education), 1979
B.S., M.S., Ph.D., University of Wisconsin, 1978
- BRAY, LLOYD J., JR. Acting Director (Fine Arts Events), 1973
B.A.; M.A., University of North Carolina, 1965
- BREEN, JOHN F. Assistant Professor (Internal Medicine), 1979
B.S.; M.D., Georgetown University, 1969
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B.A., M.Ed., Ph.D., University of Texas, 1968
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B.M.Ed., M.A., Ph.D., Ohio State University, 1965
- BRIDGES, WINSTON T., JR. Associate Professor (Psychological and Social Foundations Education), 1970 St. Petersburg Campus
B.A., M.Ed., Ph.D., University of Florida, 1975
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B.A.; M.A.; Ed.S., Ph.D., Florida State University, 1979
- BRIGGS, JOHN C. Professor (Marine Science), 1964
B.S., M.A., Ph.D., Stanford University, 1952
- BRIGHTWELL, J. RICHARD Continuing Education Coordinator (Continuing Education), 1964
B.S., M.A., Ohio State University, 1947
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B.S., Ohio State University, 1948
- BRODY, JANET A. Visiting Assistant Professor (Dance), 1980
B.A.; M.A., University of Iowa, 1978
- 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
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B.S., Florida A & M University, 1963
- BROWN, H. KEITH Associate Professor (Anatomy), 1974
B.S.; M.S.; Ph.D., Tulane University, 1974
- BROWN, JOHN L. University President, 1977
B.S.E.E.; M.A.; Ph.D., Columbia University, 1952
B.A.; M.S., Tennessee State University, 1976
- BROWN, LARRY N. Associate Professor (Biology), 1967
B.S.; M.A., Ph.D., University of Missouri, 1962
- BROWN, ROBERT B. Lecturer (Finance), 1981 St. Petersburg Campus
A.B., M.B.A.; D.B.A., Indiana University 1953
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B.S., M.S., Ed.D., West Virginia University, 1960
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B.S., M.A.; Ed.S., Ed.D., University of Florida, 1976
- BRYANT, FRED D. Director (Health Sciences Library), 1971

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B.A., M.A., *George Peabody College*, 1957
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B.S.; M.S., *University of Georgia*, 1973
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- BUENO, EDGAR E. Assistant Professor (Psychiatry), 1973
M.D., *University of San Marcos, Lima, Peru*, 1965
- BUKANTZ, SAMUEL C. Professor (Internal Medicine), 1972
B.S.; M.D., *New York University College of Medicine*, 1934
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- BURDICK, GLENN A. Dean-Professor (Engineering), 1965
B.S., M.S., Ph.D., *Massachusetts Institute of Technology*, 1961
- BURGESS, BRYAN S. Associate General Counsel (Employee Relations and Legal Affairs), 1979
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Ph.D., *University of Chicago*, 1955
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B.A.; M.Ed., Ph.D., *University of North Carolina*, 1970
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B.S.N.; M.S., *University of Michigan*, 1972
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B.A., M.A., M.Th., *Louvain, Belgium*, 1960
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B.B.A., M.B.A., Ph.D., *Louisiana State University*, 1967
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B.S., M.S., Ph.D., *University of Florida*, 1970
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B.S., M.Accy., D.B.A., *Florida State University*, 1973, C.P.A.
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- CALANDRA, DENIS Associate Professor (Theatre), 1978
B.A.; M.A., Ph.D., *University of Nebraska*, 1970
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B.S., M.S., Ed.D., *Florida State University*, 1958
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B.S.N.; M.A., *Columbia University*, 1961
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B.S., M.A.; Ph.D., *Florida State University*, 1976
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- CARMICHAEL, JOHN D. Assistant Professor (Marketing), 1967
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B.Ed.; M.Ed., *University of Miami, Florida*, 1967
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B.S.; M.S.; Ph.D., *Claremont Graduate School*, 1976
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M.B., Ch.B., *University of Glasgow*, 1952
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B.A., M.S., Ph.D., *Florida State University*, 1970
- CLEAVER, FRANK L. Professor (Mathematics), 1960
B.S.; M.S.; Ph.D., *Tulane University*, 1960
- CLINE, RALPH Associate Professor (Exceptional Child Education), 1971 St. Petersburg Campus
A.B.; M.Ed., Ed.D., *University of Florida*, 1971
- CLINGMAN, JOY M. Associate Professor (Psychology), 1970 St. Petersburg Campus
B.A., M.S., Ph.D., *Florida State University*, 1971
- COCHRANE, BRUCE J. Assistant Professor (Biology), 1981
B.A., Ph.D., *Indiana University*, 1979
- COKER, JOHN W. Associate Professor-Director (Fine Arts Events), 1969
B.S., M.M., *College Conservatory of Music, Cincinnati*, 1956
- COLE, NANCY B. Associate Professor-Chairperson (Theatre), 1976
A.B.; M.F.A. in Acting, *State University of Iowa*, 1964
- COLE, ROGER W. Professor (Foreign Languages), 1969
B.A., M.A.; Ph.D., *Auburn University*, 1968
- COLEE, ROBERT S. Assistant Director Admissions (Student Relations), New College of USF, 1981 Sarasota Campus
B.A.; M.A., *Stanford University*, 1981
- COLLEY, JAMES R. Instructor (Accounting), 1980
B.A., M.Acc., *University of South Florida*, 1980
- COLLIER, CLARENCE H. Associate Professor (Adult and Vocational Education), 1968
B.S., M.E., *University of Georgia*, 1965
- COLLIER, TROY L. Assistant to Vice President (Student Affairs), 1971
B.S.; M.L.A., *Southern Methodist University*, 1971
- COLLINS, PASCHAL, J. Assistant Professor (English), 1969
B.S., M.A.; Ph.D., *University of Florida*, 1978
- COLUMBO, JORGE A. Associate Professor (Anatomy), 1977
B.S.; M.D., *Medical School of the University of Buenos Aires*, 1964
- COOK, WILLIAM E. Visiting Lecturer (Marketing), 1981
B.S., M.A., *University of Florida*, 1968
- COOKE, JOHN P. Associate Professor (Economics), 1968
B.S.; M.B.A.; Ph.D., *University of Colorado*, 1967
- COOKE, NANCY S. Counselor/Adviser (Student Personnel Office, Education), 1974 (Part time)
B.S.; M.B.A., *University of Denver*, 1960
- COOPER, CLARA B. Associate Professor (Humanities), 1969
B.A., M.A., Ph.D., *Florida State University*, 1969
- CORY, JOSEPH G. Professor-Chairperson (Biochemistry), 1966
B.S.; Ph.D., *Florida State University*, 1963
- COUNTS, TILDEN M., JR. Assistant Professor (Mass Communications), 1980
B.A., M.A.; Ph.D., *University of North Carolina*, 1972
- COVINGTON, HARRISON W. Dean-Professor (Fine Arts), 1961
B.F.A., M.F.A., *University of Florida*, 1953
- COWELL, BRUCE C. Associate Professor (Biology), 1967
B.A., M.A., Ph.D., *Cornell University*, 1963
- COX, BARBARA C. Assistant to Dean (Arts and Letters), 1974
B.A., *William and Mary*, 1958
- COX, ERNEST L., III. Professor (Visual Arts), 1962
B.A.; M.F.A., *Cranbrook Academy of Art*, 1961
- COX, ROBERT G. Dean-Professor (Business Administration), 1975
B.S.; M.B.A.; Ph.D., *University of Pennsylvania*, 1956, C.P.A.
- COZZETTO, FRANK J. Associate Dean-Professor (Continuing Medical Education), 1980
B.A., M.D., *University of Colorado*, 1947
- CRAIG, CHARLES P. Professor (Internal Medicine), 1972
B.A.; M.D., *University of Pittsburgh School of Medicine*, 1961
- CRANE, ROGER A. Associate Professor-Assistant Chairperson (Mechanical Engineering), 1974
B.S.; M.S.; Ph.D., *Auburn University*, 1973
- CRITTENDEN, JERRY Associate Professor (Communicology), 1971
B.S.; M.A., Ph.D., *Michigan State University*, 1969
- CROSBY, JOHN O. University Physical Planning Consultant (Facilities Planning), 1977
B.Arch., *University of Florida*, 1969
- CROUCH, JAMES W. Acting Director (University Center, Student Affairs), 1973
B.A.; M.A., *Indiana University*, 1971
- CRUSE, C. WAYNE. Assistant Professor (Surgery), 1979
B.S.; M.D., *University of Louisville*, 1972
- CULLISON, LARRY R. Professor-Chairperson (Music), 1981
B.M.E.; M.M.; M.F.A., *University of Iowa*, 1973
- CUMMINGS, YVONNE E. Assistant Professor (Internal Medicine), 1978
B.S.; M.D., *Howard University College of Medicine*, 1973
- CUNNINGHAM, LESLIE A. Visiting Lecturer (Dance), 1981
B.A., *University of South Florida*, 1977
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- CUPOLI, J. MICHAEL Assistant Professor (Pediatrics), 1977
B.S.; M.D., *Georgetown Medical School*, 1971
- CURRAN, JOHN S. Professor (Pediatrics), Director (Neonatal Service), 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, THOMAS D. Professor (Economics), 1974
B.S., M.A.; Ph.D., *Indiana University*, 1965
- CZYZEWSKI, PAUL V. Associate Professor-Chairperson (Art & Music Education), 1974
B.S., M.S., *Indiana University*, 1966
- DALEZMAN, JOSEPH J. Assistant Professor (Natural Sciences), New College of USF, 1975 Sarasota Campus
B.A.; M.A.; Ph.D., *Ohio State University*, 1974
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B.A.; M.D., *Yale University*, 1969
- DALY, SUZANNE T. Assistant in Learning Disabilities (Communicology), 1979
B.S., M.S., *Indiana University*, 1977
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- DAVEY, KENNETH W. Assistant Professor (Economics), 1966
B.A.; M.A., *St. Mary's University*, 1965
- DAVIS, DARRELL L. Professor (Physiology), 1971
B.S., M.A.; Ph.D., *St. Louis University*, 1956
- DAVIS, JEFFERSON C., JR. Professor-Chairperson (Chemistry), 1965
B.S., M.S.; Ph.D., *University of California, Berkeley*, 1959
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B.A., *University of South Florida*, 1972

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B.S.; M.A.; Ph.D., University of Illinois, 1964
- DAVIS, WESLEY F. Professor (English), 1960
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- DAWES, CLINTON J. Professor (Biology), 1964
B.S., M.A., Ph.D., University of California, Los Angeles, 1961
- DEANS, STANLEY R. Professor (Physics), 1967
B.S.; M.S.; Ph.D., Vanderbilt University, 1967
- DEATS, SARA M. Associate Professor (Arts & letters), 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
- DEER, HARRIETT H. Professor (English), 1966 St. Petersburg Campus
M.A., University of Minnesota, 1964
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B.S.; M.S., University of Tennessee, 1972
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B.A., M.D., Johns Hopkins University, 1968
- DENNIS, DAVID M. Associate Professor (Accounting), 1972
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B.S.; M.D., University of Havana School of Medicine, 1960
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B.A., Ph.D., University of Miami, Florida, 1968
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- DEVINE, JAMES F. Assistant Professor (Civil Engineering and Mechanics), 1965
B.S., M.S., University of Illinois, 1960
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B.S.; M.D., Indiana University School of Medicine, 1972
- DI CARLO, VINCENTO Professor (Neurology), 1978
B.A.; M.D., University of Naples School of Medicine, Italy, 1952
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B.J., M.A.; Ph.D., Southern Illinois University, 1977
- DICKEY, ANNAMARY L. Associate Professor (Music Arts), 1969
B.S.; M.Ed., Columbia University, 1963, Artist Diploma
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A.B., A.M., Ph.D., University of Minnesota, 1964
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B.A., S.T.B., M.Ed., Ed.D., University of Florida, 1967
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B.A.; M.A., Ph.D., University of Delaware, 1972
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- DILKES, THOMAS P. Associate Professor (History), 1969
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B.S.; M.D., State University of New York Upstate Medical Center, 1968
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B.B.E.E., M.S.E.E., Ph.D., Georgia Institute of Technology, 1959
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B.S., M.S., Ph.D., University of Cincinnati, 1951
- DOUGLASS, EDWIN C. Visiting Assistant Professor (Pediatrics), 1980
B.A., M.D., University of Chicago, 1974
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B.S., M.S., Ed. D., Boston University, 1971
- DOWNES, BERNARD F. Associate Professor (Communication), 1970
B.A., B.F.A.; M.A., Northwestern University, 1970
- DOYLE, LARRY J. Professor (Marine Science), 1972 St. Petersburg Campus
B.A., M.A.; Ph.D., University of Southern California, 1973
- DOYLE, MARSHA V. Instructor (Communication), 1981
B.A.; M.A., University of Minnesota, 1978
- DRAPELA, VICTOR J. Professor-Chairperson (Guidance Education), 1968
Ph.L.; M.A., Ph.D., University of North Dakota, 1968
- DUBE, MEREDITH A. Student Affairs Coordinator (Veterans Affairs, Student Affairs), 1980
B.S.; M.Ed., Worcester State College, 1974
- DUDLEY, JULIUS W. Assistant Professor (Afro-American Studies), 1970
B.A., M.A., Ph.D., University of Cincinnati, 1979
- DUNCAN, JOHN A. Assistant in Research (Diabetes Center), 1980
B.A.; M.D., University of South Florida, 1977
- DUNN, MARGARET A. Visiting Assistant Professor (Nursing), 1980
B.S.; M.A., Ed.D., University of Maryland, 1969
- DURSO, MARY W. Associate Professor (Adult and Vocational Education), 1969
B.A., M.A.; Ph.D., Georgia State University, 1973
- DUTTON, RICHARD E. Professor (Management), 1963
A.B.; M.B.A.; Ph.D., Louisiana State University, 1963
- DWORNIK, JULIAN J. Associate Dean (College of Medicine-Admissions), Associate Professor (Anatomy), 1970
B.A.; M.Sc., Ph.D., University of Manitoba, Canada, 1969
- DWYER, ROBERT C. Professor (Exceptional Child Education), 1964
B.A., M.A., Ed.D., George Peabody College, 1966
- DYE, HOWARD S. Professor (Economics), 1973
A.B., M.A., Ph.D., Cornell University, 1949
- DYKSTRA, DAVID E. Professor (Humanities), New College of USF, 1975 Sarasota Campus
B.A.; M.A., Ph.D., University of Iowa, 1957
- EAKER, ALAN B., JR. Professor (Visual Arts), 1969
B.A., M.A., University of California, Berkeley, 1969
- EDGAR, JAMES R. Assistant Professor (Psychiatry), 1979 (Part time)
B.S., M.D., Louisiana State University, 1971
- EDWARDS, STERLING J., JR. Director of Development (Medical Center), 1981
B.A.; B.D.; Ph.D., University of Edinburgh, 1960
- EDWARDS, WILLIAM C. Professor (Ophthalmology), 1972
A.B.; M.D., Yale Medical School, 1959
- EICHLER, DUANE C. Assistant 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
- ELDER, WAYNE T. Instructor (Accounting), 1978
B.A.; B.A., M.Ac., University of South Florida, 1978
- ELLIS, CAROLYN S. Assistant Professor (Sociology), 1981
B.A.; M.A., Ph.D., State University of New York at Stonybrook, 1981
- EMENER, WILLIAM G., JR. Professor (Rehabilitation Counseling Programs), 1980
B.A.; M.A.; Ph.D., University of Georgia, 1971
- ENDICOTT, JAMES N. Associate Professor (Surgery), 1975
A.B.; M.D., Indiana University School of Medicine, 1967
- ENGEL, CHARLES W. Professor (Math Education), 1966
B.S., M.S.; Ed.D., Wayne State University, 1966
- ENTREKIN, NINA M. Associate Professor (Nursing), 1973
B.S.N., M.N., Emory University School of Nursing, 1969
- ERICKSON, LINDA E. Director (Admissions, Student Affairs), 1964
B.A., M.A., M.M., University of South Florida, 1970
- ERVIN, DONALD W. Instructor-Assistant Director

- (Sponsored Research), 1973
B.S., Athens College, 1964
- ESPINOZA, CARMEN G. Assistant Professor (Pathology), 1978
M.D., San Marcos University, Lima, Peru, 1969
- ESPINOZA, LUIS R. Associate Professor (Internal Medicine), 1978
M.D., Peruvian University of Medical and Biological Sciences, 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. Associate Dean-Professor (Medicine), 1981 (Part time)
M.D., Tulane University Medical School, 1938
- ESTLER, WILLIAM T. Associate Professor-Coordinator (Natural Sciences), New College of USF, 1975 Sarasota Campus
B.S.; M.A., Ph.D., State University of New York, Stonybrook, 1972
- FABRY, DONNA P. Continuing Education Coordinator (Continuing Education), 1977
B.S., University of Miami, Florida, 1959
- FABRY, FRANCIS J. Professor (English), 1964
A.B., M.A., Ph.D., University of Texas, 1964
- FACTOR, REGIS A. Associate Professor (Political Science), 1971 St. Petersburg Campus
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
- FAIRRIE, FIONA J. Assistant Professor (Dance), 1980
- FANNING, KENT A. Associate Professor (Marine Science), 1973 St. Petersburg Campus
B.S.; Ph.D., University of Rhode Island, 1973
- FARESE, ROBERT V. Professor (Internal Medicine), 1973
M.D., Georgetown University, 1958
- FARRELL, FRANCES Associate Professor (Nursing), 1977 (Part time)
B.S.; M.S., University of California, San Francisco Medical Center, 1966
- FAZIO, PETER J. Area Administrator (Housing), 1979 Sarasota Campus
B.A., Fordham University, 1970
- FENDER, RICKARD C. Assistant Vice President (Administration and Finance), 1968
B.A., University of South Florida, 1969
- FENSKE, NEIL A. Associate Professor (Internal Medicine), 1977
B.A.; M.D., St. Louis University School of Medicine, 1973
- FERGUSON, DONALD G. Professor (Guidance Education), 1970
B.S., M.A.; Ed.D., Western Reserve University, 1956
- FERNANDEZ, JACK E. Professor (Chemistry), 1960
B.S., Ch., M.A., Ph.D., University of Florida, 1954
- FERNANDEZ, RAYMOND J. Assistant Professor (Pediatrics), 1977
B.A.; M.D., Tulane University School of Medicine, 1968
- FERNANDEZ, ROBERT C. Associate Professor-Associate Chairperson (Psychiatry), 1977
B.S.; M.D., University of Tennessee, 1969
- FERNANDEZ, SUSAN J. Counselor/Adviser (Academic Advising, Student Affairs), 1974
B.A., M.A., University of South Florida, 1975
- FERRARO, NANCY E. Director (Records and Registration), 1975 Sarasota Campus
B.S., B.A., University of Florida, 1959
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A.B.; M.A., Ph.D., Indiana University, 1970
- FIGG, ROBERT M., III. Associate Professor (English), 1965
B.S., M.A., Ph.D., University of North Carolina, 1965
- FILSKOV, SUSAN B. Associate Professor (Psychology), 1975
B.A., Ph.D., University of Vermont, 1975
- FINELLI, PATRICK M. Coordinator (Fine Arts Events), 1976
B.A., M.A., University of California at Berkeley, 1975
- FINKELSTEIN, MARCIA A. Assistant Professor (Psychology), 1981
B.A.; M.A., M. Phil., Ph.D., Columbia University, 1981
- FINNEY, ROY P. Professor (Surgery), 1974
M.D., Medical University of South Carolina, 1952
- 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
- FIRESTONE, GREGORY E. Visiting Assistant Professor (Psychiatry), 1979 (Part time)
B.S.; M.A., Ph.D., University of South Florida, 1978
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B.S.; B.A., M.A.; J.D., American University, 1960, A.B.A., A.T.L.A., F.D.L.A.
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B.S., M.S., Southern Illinois University, 1969
- FITZPATRICK, DAVID F. Associate Professor (Pharmacology), 1972
B.S., M.A.; Ph.D. Vanderbilt University, 1969
- FLEMING, ALLEN W. Student Affairs Coordinator (Student Publications, Student Affairs), 1979
A.B.J., University of Georgia, 1950
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B.S.; M.D., University of Florida, 1971
- FLOYD, JANE B. Visiting Lecturer (Nursing), 1981
B.S.; M.N., Emory University, 1967
- FLYNN, ROBERT W. Professor-Acting Chairperson (Physics), 1968
B.S.; S.M., Sc.D., Massachusetts Institute of Technology, 1968
- FOLLMAN, JOHN C. Professor-Chairperson (Psychological and Social Foundations Education), 1966
B.A.; M.A.; Ph.D., Indiana University, 1969
- FORD, EDWARD J., JR. Associate Professor (Economics), 1971
B.A.; M.A.; Ph.D., Boston College, 1971
- FORSETH, SONIA D. Associate Professor (Art and Music Education), 1971 St. Petersburg Campus
B.A., M.A., Ph.D., University of Minnesota, 1976
- FORTSON, FRANCIS G. Systems Coordinator (Computer Research Center), 1965
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B.A., M.A., Ph.D., University of Tennessee, 1963
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B.A.; M.A.; Ph.D., University of Wisconsin, 1950
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B.A., M.D., University of Oklahoma, 1975
- FRANK, ILENE B. Associate University Librarian (Libraries), 1974
B.S.D.; A.M.L.S., University of Michigan, 1973
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B.A., University of Florida, 1972
- FRANQUES, JOHN T. Assistant Professor (Civil Engineering and Mechanics), 1971
B.S., M.S., Ph.D., Louisiana State University, 1971, P.E.
- FRAZE, HENRY S. Visiting Lecturer (Engineering), 1978 (Part time)
B.S.E.; M.S.E., Pennsylvania State University, 1965
- FREEMAN, KITTY S. Instructor (Electrical Engineering), 1979
B.S.E.E., M.S.E., University of South Florida, 1980
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B.S.; M.S.N., Medical College of Georgia, 1976
- FRENCHMAN, STUART M. Assistant Professor (Radiology), 1977
B.A.; M.D., Temple University School of Medicine, 1967
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M.B., B.Ch., University of the Witwatersrand, Johannesburg, 1949
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A.B., M.A.; Ph.D., Hahnemann Medical College, 1957
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A.B., M.A., University of Georgia, 1976
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B.S., Julliard School of Music, 1958
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A.B.; A.M., Harvard University, 1958
- FUDGE, WILLIAM G., JR. Associate Professor (Mass Communications), 1972
B.A.; M.S.; Ph.D., Florida State University, 1975
- FUSON, ROBERT H. Professor-Chairperson (Geography), 1960
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B.A.; M.S., State University of New York at Oswego, 1980
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B.Sc., M.B.A., Ph.D., Ohio State University, 1964
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B.S., M.S.; Ph.D., Cornell University, 1969
- GAGGI, SILVIO L. Associate Professor (Humanities), 1972
B.A., M.A.; Ph.D., Ohio University, 1972
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B.S., Northwestern University, 1974
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B.S.; M.S., Ph.D., University of Southwestern Louisiana, 1981
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I.S.; M.B.B.S., Medical College, Calcutta, India, 1961
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B.S., M.S., Ph.D., Calcutta University, 1964
- GARCIA, JUANITA L. Assistant Professor (Gerontology), 1968
B.A.; M.A.; Ed.D., Nova University, 1975
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B.S.E.E., M.S.E.E., Ph.D., University of Maryland, 1969
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A.B., M.D., Temple University, 1944
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B.E.E.; M.S.E.E.; Sc.D., University of Pittsburgh, 1963
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B.S., M.A., Ph.D., University of Florida, 1958
- GATES, JEAN K. Associate Professor (Library, Media, and Information Studies, Education), 1966
B.A., M.S.L.S., Catholic University of America, 1951
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B.A.; Ph.D., University of South Carolina, 1968
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B.A.; M.A.; Ph.D., Florida State University, 1981
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B.F.A., M.F.A., University of Alabama, 1958
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B.A.; M.D., Medical College of Georgia, 1966
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B.A.; M.A.; Ph.D., University of Vienna, 1950
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B.A.; M.A., Ph.D., University of Rochester, 1974
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B.S.; M.Ed., University of Florida, 1963
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B.S., Springfield College, 1968
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B.A.; M.S.; M.A., Ph.D., *University of Pittsburgh*, 1979
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B.A., M.L., Ph.D., *University of Iowa*, 1966
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B.A., *University of Denver*, 1952
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B.S.; M.Ed., Ed.D., *University of Florida*, 1963
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B.A., M.L.S., *Louisiana State University*, 1969
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B.S., M.Acc., Ph.D., *University of Alabama*, 1969, C.P.A.
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B.S.; Ph.D., *Vanderbilt University*, 1973
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B.S., M.S., Ph.D., *Florida State University*, 1961
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B.S., M.S., Ph.D., *University of Michigan*, 1960
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- KERNS, ROBERT L. Professor (Mass Communications), 1972
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B.S., *University of Central Florida*, 1968
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B.S.; M.S., *Carnegie-Mellon University*, 1976
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 KIMBLER, DELBERT L. Assistant Professor (Industrial Engineering and Management), 1980
 B.S.E.; M.S., Virginia Polytechnic Institute and State University, 1978
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 B.A.; M.A., *Ph.D.*, University of Florida, 1965
- KIMMEL, HERBERT D. Professor (Psychology), 1968
 B.S., M.A., *Ph.D.*, University of Southern California, 1958
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 A.B., M.R.C., *Ed.D.*, University of Florida, 1965
- KINDE, STEWART W. Professor-Chairperson (Communicology), 1965
 B.S., M.A., *Ph.D.*, Michigan State University, 1972
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 B.S.; *Ph.D.*, University of South Carolina, 1975
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 B.S., Florida A&M University, 1975
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 B.A., M.A., M.S.L.S., Florida State University, 1970
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 B.S.N.E., M.S.N.; *Ed.D.*, Columbia University, 1961
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 B.S.; M.A., Columbia University, 1961, *Prof. Diploma*
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 B.S.; M.A.T.; M.S., University of Washington, 1965
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 A.B.; *Ph.D.*, Texas A&M University, 1964
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 B.A.; M.A., *Ph.D.*, Pennsylvania State University, 1979
- KLEIN, THOMAS W. Assistant Professor (Medical Microbiology), 1973
 B.S., *Ph.D.*, Creighton University, 1972
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 B.A., M.A., University of South Florida, 1973
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Ph.D., University Erlanger-Nurnberg, 1967
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 B.S.; M.A., University of South Florida, 1972
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 B.S., M.A.; *Ph.D.*, Louisiana State University, 1968
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 B.A.; *Ph.D.*, Iowa State University, 1944
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 P.U.C., M.B.B.S., Gentur Medical College, India, 1974
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 M.D.; *Ph.D.*, Medical School, Warsaw, Poland, 1968
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 B.S., M.S.S.W.; *Ph.D.*, University of Chicago, 1971
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 M.D., High Institute of Medicine, in Sofia, Bulgaria, 1959
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 B.S.E.E.; M.S.E.E., *Ph.D.* in E.E., Northwestern University, 1970
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 B.S.S.E., *Ph.D.*, Northwestern University, 1968
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 B.E., M.S.M.E., M.E.E.; *Ph.D.*, University of South Florida, 1976
- KRONSNOBLE, JEFFREY M. Professor (Visual Arts), 1963
 B.S.; M.F.A., University of Michigan, 1963
- KRUSCHWITZ, WALTER H. Associate Professor (Physics), 1967
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 B.A., M.A., *Ph.D.*, University of Arizona, 1968
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 LAWSON, STEVEN F. Associate Professor (History), 1972
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 LAYDEN, WILLIAM E. Professor-Chairperson (Ophthalmology), 1972
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 LAYMAN, JAY S. Associate Business Manager (Medical Center), 1971
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 LEATH, ARVA W. Counselor/Adviser (Educational Leadership and Higher Education), 1980
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 LEAVENGOOD, LEE B. Director (Lifelong Learning), 1973
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 LEBEAU, REBECCA N. Visiting Instructor (Economics), 1977
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 LEE, SUNG JAE Associate Professor (Mathematics), 1981
B.Sc.; M.A.; Ph.D., McMaster University, Canada, 1972
 LEES, NANCY J. Visiting Instructor (Nursing), 1980
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 LEFFEW, JAMES T. Instructor (Engineering), 1979
B.S.E.E., M.S.E.E., Purdue University, 1967
 LEFOR, WILLIAM M. Visiting Assistant Professor (Internal Medicine), 1979
B.A.; M.S., Ph.D., Indiana University Medical Center, 1968
 LEIBOWITZ, ALAN I. Assistant Dean (Student Affairs), Assistant Professor (Internal Medicine), 1979
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 LENTZ, GLENDA F. Director (Cooperative Education and Placement, Student Affairs), 1968
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 LEONE, DONNA R.C. Associate University Librarian (Educational Resources), 1979
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 LE VASSEUR, MICHAEL L. Instructor (Geography), 1980
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 LEVINE, EDWARD L. Associate Professor (Psychology), 1977
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 LEVY, ARTHUR B. Associate Professor (Political Science), 1970
B.A., M.A., Ph.D., Harvard University, 1969
 LEVY, CHARLENE C. Associate Professor (Social Sciences), New College of USF, 1975 Sarasota Campus
B.A., M.A., Ph.D., Michigan State University, 1975
 LEVY, JOHN W. Associate Professor (Social Science and Letters, Education), 1972
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 LEWIS, EUGENE Provost-Proffessor (New College), 1978 Sarasota Campus
B.A.; M.A.; Ph.D., Syracuse University, 1967
 LEWIS, JAMES E. Associate Professor (Music Arts), 1971
B.M., M.M., University of Illinois, 1965
 LEWIS, MICHAEL L. Assistant Professor (Communication), 1980
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 LIANG, DIANE F. Assistant Department Head-University Librarian (Libraries), 1972
B.A.; M.A.L.S., George Peabody College, 1964
 LIANG, JOSEPH J. Professor (Mathematics), 1970
B.A., M.A., Ph.D., Ohio State University, 1969
 LICHTENBERG, BETTY K. Professor (Math Education), 1971
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 LICHTENBERG, DONOVAN R. Professor (Math Education), 1962
B.A.; M.S., Ph.D., University of Wisconsin, 1966
 LILLETHUN, ABBY G. Assistant Professor (Theatre), 1981
B.F.A.; M.F.A., Florida State University, 1980
 LILLIBRIDGE, EDMUND M. Counselor/Adviser (Counseling Center, Student Affairs), 1971
B.A., M.A., Ph.D., United States International University, 1972
 LIM, DANIEL V. Associate 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
 LINDER, RONALD Professor (Childhood and Language Arts Education), 1969
B.S., M.S., Ed.D., University of Florida, 1969
 LINDSEY, BRUCE G. Assistant Professor (Physiology), 1977
B.A.; Ph.D., University of Pennsylvania, 1974
 LINDSEY, MARY J. Coordinator (Special Services, Undergraduate Studies), 1981
B.S.; M.Ed., Ed.S., Ph.D., University of Florida, 1981
 LINTON, JOE R. Associate Professor (Biology), 1963
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 LISTON, JOHN P. Budget Analyst (Medical Center), 1978
B.S.B.A., Marquette University, 1970
 LIVNAT, SHMUEL Assistant Professor (Medical Microbiology), 1981
B.Sc.; M.S.; Ph.D., Weizmann Institute of Science, Rehovot, Israel, 1976
 LLEWELLYN, JOHN A. Professor (Chemical Engineering), 1971
B.Sc., Ph.D., University College Cardiff, 1958
 LOGAN, ROBERT A. Assistant Professor (Mass Communications), 1980
B.A.; M.A.; Ph.D., University of Iowa, 1977
 LONG, CHARLENE M. Assistant Professor (Nursing), 1978
B.S.; M.S., Ohio State University, 1962
 LONG, HARRY M. Associate In (Business Administration), 1979
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 LONG, JO ANN Professor (Childhood and Language Arts Education), 1969
A.B., M.Ed., Ph.D., Florida State University, 1969
 LONGSTREET, JAMES R. Professor (Finance), 1967
B.A.; M.B.A., Ph.D., Northwestern University, 1956
 LORENZEN, WILLIAM A., III Associate Professor (Theatre Arts), 1966
B.S.S., M.F.A., Tulane University, 1966
 LOTZ, MICHAEL J. Assistant Professor (Pathology), 1978
A.B., M.D., Columbia University College of Physicians and Surgeons, 1972
 LOVELESS, RICHARD L. Professor (Art and Music Education), 1968
B.S.; M.S., Pennsylvania State University, 1964
 LOWE, ALVIN J. Professor-Chairperson (Reading Education), 1966
B.A., M.A.; Ed.D., University of Virginia, 1967, D.A.G.S.
 LOWE, THOMAS L. Assistant Professor (Psychiatry), 1980
B.S., M.D., University of Michigan, School of Medicine, 1974
 LUCOFF, MANNY Professor (Mass Communications), 1963
B.S., M.A.; Ph.D., University of Iowa, 1971
 LUDWIG, WILLIAM E. Assistant Professor (Music), 1979
B.M.; M.M., Yale University School of Music, 1977
 LUPTON, D. KEITH Program Director (Interdisciplinary Social Science), 1967
B.S.; LL.B.; M.A., Dartmouth College, 1951
 LUTHER, ANITA B. Assistant in Research (Medicine), 1975 (Part time)
 LYMAN, CHARLES P. Associate Professor (Visual Arts), 1972
B.A.; M.S., Institute of Design, Illinois Institute of Technology, 1969
 LYMAN, GARY H. Associate Professor (Internal Medicine), 1977
B.A., M.D., State University of New York at Buffalo, 1972
 MAC CULLOUGH, DOUGLAS B. University Registrar (Registrar), 1971
B.S., M.A., University of Florida, 1965
 MAC DONALD, GWENDOLINE R. Dean-Professor (Nursing), 1973
B.S.; M.A., Ed.D., Columbia University, 1963
 MACK JEFFREY A. Area Administrator (Housing and Food Service, Student Affairs), 1975
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 MACKEY, BERNARD A. Academic Administrator (Office of Regional Campus Affairs), 1972
B.F.A.; M.A.; Ph.D., University of Florida, 1977
 MAC MULLEN, JAMES T. Visiting Assistant Professor (Physics), 1980
B.S.; M.S.; Ph.D., University of Arizona, 1979
 MACON, A. RILEY Director (Sponsored Research), Professor (Chemistry), 1980
B.S.; M.S.; Ph.D., Northwestern University, 1961

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B.S.; M.D., University of Pennsylvania School of Medicine, 1967
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 Sarasota Campus
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B.A., M.R.E., Ph.D., University of Kentucky, 1956
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B.A.; M.Ed.; Ph.D., University of Nebraska, 1970
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B.S., M.A., University of South Florida, 1970
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B.S., M.D., University of Kansas, 1960
- MARTIN, RUTH R. Assistant Professor (Social Work Program), 1981
B.S.; M.S.W., Ph.D., University of Connecticut, 1980
- MASON, FRANK T. Assistant Professor (English), 1969
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- MASSIE, PAUL Associate Professor (Theatre Arts), 1974
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B.S.; M.S., Purdue University, 1971
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B.A.; M.Phil., Ph.D., Yale University, 1975
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B.S.; Ph.D., Johns Hopkins University, 1952
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A.B.; M.A.; Ph.D., Case Western Reserve University, 1968
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B.A., M.A., University of South Florida, 1976
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B.A.; Ph.D., University of Virginia, 1965
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 PARADISE, LOIS J. Associate Professor (Medical Microbiology), 1973
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 PARROTT, WILLIAM H. Associate Professor (Accounting), 1976
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 PASCOE, DIANE E. Lecturer (Visual Arts), 1977
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 PASSELL, NICHOLAS. Assistant Professor (Natural Sciences), New College of USF, 1975 Sarasota Campus
 B.A.; M.S., Ph.D., *University of Chicago*, 1969
 PATERSON, JAMES F. Assistant in Research (Pathology), 1978
 B.A., *De Paul University*, 1976
 PATTERSON, GERALD E. Associate Professor (Adult and Vocational Education), 1971
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 PATTERSON, MICHAEL H. Director (University Physical Planning, Facilities Planning), 1973
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B.A., M.A., University of South Florida, 1971
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B.A., M.A.; Ph.D., Michigan State University, 1969
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 RIGGIN, JOHN T. Associate Dean-Professor (Medicine), 1978
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 RIGGIN, ONA Z. Assistant Dean for Graduate Education-Professor (Nursing), 1977
B.S.; M.Ed.; Ed.D., Memphis State University, 1976
 RIGGS, CARL D. Dean (Graduate Studies), Professor (Biology), 1971
B.S., M.S., Ph.D., University of Michigan, 1953
 RIGOS, PLATON N. Assistant Professor (Political Science), 1976
B.A.; M.A.; Ph.D., Michigan State University, 1974
 RINKEL, MURICE O. Instructor-Assistant Director (Florida Institute of Oceanography), 1973 St. Petersburg Campus
B.S., Florida State University, 1953
 RITCHIE, ALEXANDER W. Assistant Professor (Geology), 1978
B.S.; M.A., Ph.D., University of Texas, 1974
 RITTERMAN, STUART I. Professor (Communicology), 1969
B.A.; Ph.D., Case Western Reserve University, 1968, C.C.C.
 RIVARD, RICHARD J. Assistant Professor (Finance), 1977
B.S.; M.S., Ph.D., Texas A&M University, 1978
 ROBERTS, LOREN G. Coordinator (Student Personnel Office, Education), 1968
B.S., M.S., Emporia State Teachers College, 1963
 ROBERTS, ROBIN E. Athletic Coach (Intercollegiate Athletics), 1976
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 ROBERTSON, HENRY M. Professor (American Studies), 1961
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 ROBERTSON, PHYLLIS M. Counselor/Adviser (Student Personnel Office, Education), 1968 (Part time)
B.A., University of Minnesota, 1941
 ROBINSON, BRUCE E. Visiting Assistant Professor (Internal Medicine), 1981 (Part time)
B.S.; M.D., University of South Florida, 1975
 ROBINSON, CHASE Associate Professor (Dance), 1971
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 ROBINSON, CLAIRE S. Budget Officer (Administration and Finance), 1966
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 ROBINSON, GERALD G. Professor (Biology), 1960
B.S., Ph.D., University of Minnesota, 1960
 ROBINSON, JACK H. Professor (Measurement and Research Education), 1963 St. Petersburg Campus
B.S.; M.A.; Ed.D., Harvard University, 1960
 ROBISON, JOHN O. Assistant Professor (Music), 1977
B.A.; M.A., D.M.A., Stanford University, 1975
 ROCHELLE, DAVID B. Director, University TV (Educational Resources), 1979
B.F.A., University of Houston, 1956
 RODRICK, GARY E. Assistant Professor (Comprehensive Medicine), 1978
B.A., M.S.; Ph.D., University of Oklahoma, 1971
 RODRIGUEZ, LAVINIA Counselor/Adviser (Counseling Center, Student Affairs), 1981
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 RODRIGUEZ, MANUEL, JR. Business Manager (Medical Clinics), 1977
B.S., University of Tampa, 1968
 ROGERS, DONALD W. Visiting Associate Professor (Civil Engineering and Mechanics), 1973 (Part time)
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 ROGERS, JOANNE L. Athletic Coach (Intercollegiate Athletics), 1975
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 ROGOZINSKI, JERZY Visiting Research Associate (Biochemistry), 1981
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 ROLF, CAROL J. Academic Administrator (Academic Affairs), 1974
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 ROMEO, JOHN T. Associate Professor (Biology), 1977
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 ROMIG, LARRY G. Director (Lifelong Learning), 1966
B.S.; M.A., University of South Florida, 1970
 ROOT, ALLEN W. Professor-Associate Chairperson (Pediatrics), 1973
A.B.; M.D., Harvard Medical School, 1958
 ROOT, EDWARD R. Assistant Professor (Pediatrics), 1978
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 ROSANELLI, E. GEORGE Assistant Professor (Ophthalmology), 1980
B.A.; M.D., Georgetown University, 1975
 ROSE, DONALD C. Professor (Mathematics), 1960
A.B.; M.A., Ph.D., University of Kentucky, 1954
 ROSE, LEE H. Head Athletic Coach (Intercollegiate Athletics), 1980
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 ROSEL, NATALIE E. Associate Professor (Social Sciences), New College of USF, 1975 Sarasota Campus

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 ROSENZWEIG, ABRAHAM Professor (Geology), 1977
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 ROSS, ANN M. Director (Community Relations), 1980
 B.A., *University of South Florida*, 1979
 ROSS, BERNARD E. Professor (Civil Engineering and Mechanics), 1965
 B.S.M.E., M.S.A.E.; M.S.E.M., Ph.D., *University of Florida*, 1964, P.E.
 ROSS, VIVIAN M. Associate Professor (Nursing), 1977
 B.S.N., M.S.N.; Ed.D., *Nova University*, 1975
 ROSS, WILLIAM T. Associate Professor-Program Director (English), 1970
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 ROUSE, MARYANNE M. Instructor (Accounting), Director (Professional and Management Development Center), 1971
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 ROUSH, S. LARRY Associate Professor (Management), 1978
 Sarasota Campus
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 ROWE, JOHN W. Professor-Chairperson (Economics), 1979
 B.S., M.S., Ph.D., *University of Illinois*, 1966
 RUBIN, STEVEN J. Associate Professor-Associate Chairperson (English), 1969
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 RUNDUS, DEWEY J. Associate Professor (Psychology), 1972
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 RUSH, JAMES A. Assistant Professor (Ophthalmology), 1979
 A.B.; M.D., *Georgetown University School of Medicine*, 1972
 RUSH, WILLIAM E. Associate Dean (Medical Clinics), Associate Professor (Pediatrics), 1979
 B.S.; M.D., *Wayne State University*, 1952
 RUTENBERG, DANIEL Professor (Humanities), 1964
 A.B., M.A.; Ph.D., *University of Florida*, 1967
 SABA, HUSSAIN I. Associate Professor (Internal Medicine), 1975
 M.D.; Ph.D., *University of North Carolina School of Medicine*, 1970
 SABA, SABIHA Assistant Professor (Pathology), 1979
 M.D., *Darbhanga Medical College, India*, 1963
 SACCO, WILLIAM P. Assistant Professor (Psychology), 1979
 B.A.; M.S., Ph.D., *Florida State University*, 1979
 SACKETT, WILLIAM M. Professor—Chairperson (Marine Science), 1979
 St. Petersburg Campus
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 SADLOWSKI, RONALD W. Associate Professor (Surgery), 1976
 B.S.; M.D., *Indiana University School of Medicine*, 1968
 SAENZ, ARMANDO Associate Professor (Psychiatry), 1975
 B.A.; M.D., *University of Texas, Southwestern Medical School*, 1963
 SAFF, DONALD J. Professor (Visual Arts), 1965
 B.A.; M.A.; M.F.A.; Ed.D., *Columbia University*, 1964
 SAFF, EDWARD B. Professor (Mathematics), 1969
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 SANDERS, THOMAS E. Associate Professor (English), 1968
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 SANDLER, JACK Professor (Psychology), 1969
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 SAPORTA, SAMUEL Assistant Professor (Anatomy), 1977
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 SARACENO, CARMELO A. Assistant Professor (Surgery), 1978
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 SASMOR, JEANNETTE L. Professor (Nursing), 1979
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 SASSER, EMERY L. Professor-Chairperson (Mass Communications), 1973
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 SATO, ATSUSHI Visiting Research Associate (Biochemistry), 1980
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 SAXON, SUE V. Professor (Gerontology), 1963
 B.S., M.S., Ph.D., *Florida State University*, 1963
 SCERBO, JOSE C. Assistant Professor (Obstetrics and Gynecology), 1981
 B.S., M.D., *University of Buenos Aires*, 1971
 SCHALEMAN, HARRY J., JR. Associate Professor (Geography), 1969
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 SCHATZ, DAVID R. Assistant Professor (Humanities), New College of USF, 1975, Sarasota Campus
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 SCHENCK, DAVID P. Associate Professor (Foreign Languages), 1974
 B.A.; M.A.; Ph.D., *Pennsylvania State University*, 1971
 SCHEUERLE, JANE W. Associate Professor (Communicology), 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
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 SCHMIDT, PAUL J. Visiting Professor (Pathology), 1981
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 SCHMITT, CHARLES J. Coordinator (Fine Arts Events), 1976
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 SCHNEIDER, RAYMOND J. Professor (Communication), 1968
 A.B.; Ph.L.; M.A.; S.T.L.; Ph.D., *University of Michigan*, 1965
 SCHNELLER, STEWART W. Professor (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. Assistant Professor (Internal Medicine), 1981
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 SCHREIBER, JOSEPH F. University Physician (Student Health Service, Student Affairs), 1980
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 SCHRODER, HAROLD M. Professor-Chairperson (Management), 1973
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 SCHROTH, PETER E. Assistant Professor (Visual Arts), 1981
 B.F.A.; M.F.A., *University of Colorado*, 1981
 SCHULMAN, PETER Assistant Professor (Internal Medicine), 1979
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 SCHWARTZ, CAROLE J. Instructor (Childhood and Language Arts Education), 1970
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 SCHWARTZ, DANIEL J. Assistant Professor (Internal Medicine), 1978
 B.A.; M.D., *Jefferson Medical College*, 1973
 SCHWARTZ, JULIA L. Assistant Department Head-University Librarian (Libraries), 1962
 B.S.; M.S.L.S., *Case Western Reserve University*, 1955
 SCOTT, LAWRENCE E. Coordinator (Development/Alumni Affairs), 1976
 B.S.; M.A., Ed.D., *Western Michigan University*, 1976
 SCOTT, LINUS A. Professor-Chairperson (Energy Conversion and Mechanical Design), 1964
 B.S.M.E., M.S.E.; Ph.D., *Case Institute of Technology*, 1960, P.E.
 SCOTT, RICHARD A. Visiting Associate Professor (Adult and Vocational Education), 1972
 B.S., M.Ed., Ed.D., *Auburn University*, 1976
 SCOURTES, CHRISTINE C. Counselor/Adviser (Educational Leadership and Higher Education), 1973
 B.A.; M.A., *University of South Florida*, 1973
 SCRUGGS, CHARLES E. Associate Professor (Foreign Languages), 1972
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 SCUDDER, PAUL H. Assistant Professor (Natural Sciences), New College of USF, 1978, Sarasota Campus
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 SEAGRAVE, FRANCES M. Student Affairs Coordinator (Student Affairs), 1974, St. Petersburg Campus
 B.A., M.Ed., *Wayne State University*, 1952
 SEARLS, EVELYN F. Associate Professor (Reading Education), 1974
 B.Ed., M.Ed., Ed.D., *University of Miami, Florida*, 1971
 SEEHAUSEN, TIM F. Assistant Professor (Family Medicine), 1978
 A.B., M.D., *Indiana University School of Medicine*, 1973
 SELIGSOHN, HARRIET C. Academic Administrator (Evaluation and Testing, Academic Services), 1960
 B.S.; M.A., Ph.D., *University of South Florida*, 1976

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B.S., M.S., Ed.D., Florida State University, 1967
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B.S.; M.S.; M.A., University of South Florida, 1971
- SEPANIK, MARY A. Assistant Director (Libraries), 1969
B.S.; M.A.L.S., Rosary College, 1965
- SHAH, CHUNILAL P. Assistant Professor (Radiology), 1981
M.B.B.S., Topiwala National Medical College, 1968
- SHAH, SHIRISH C. Assistant In Research (Diabetes Center), 1981
M.B.B.S., Medical College Baroda, India, 1975
- SHANNON, ROBERT F. Associate Professor (Economics), 1966
B.S.; M.B.A.; Ph.D., University of Illinois, 1966
- SHANNON, ROGER Associate Professor (Physiology), 1974
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- SHARMA, SANDRA B. Assistant Professor (Nursing), 1978
B.S.N.; M.S.N., University of Cincinnati, 1978
- SHARPE, JOHN R. Associate Professor (Surgery), 1973
B.S.; B.S., M.D., Medical College of Virginia, 1967
- SHAW, KAILIE R. Assistant Professor (Psychiatry), 1974
J.M.B.; M.D., University of Cape Town Medical School, 1966
- SHEA, WILLIAM M. Associate Professor (Religious Studies), 1980
B.A.; Ph.D., Columbia University, 1974
- SHELLEY, SUE A. Visiting Assistant Professor (Pathology), 1978
B.A.; M.S., Ph.D., Loyola University of Chicago, 1974
- SHEPHERD, DAVID C. Professor (Communicology), 1972
B.A., M.A.; Ph.D., Syracuse University, 1962
- SHERMAN, BARBARA R. Assistant Vice President for Academic Affairs (Planning and Budgeting), 1977
A.B.; A.M., Ph.D., University of Michigan, 1973
- SHERMAN, JAMES J. Professor (Management), 1967
B.S.; J.D.; Ph.D., State University of New York at Buffalo, 1966
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B.A., M.D., University of South Florida, 1975
- SHERMAN, ROGERS T. Professor-Chairperson (Surgery), 1972
A.B.; M.D., University of Cincinnati, 1948
- SHEWMAKER, JANETH D. Assistant University Librarian (Libraries), 1979 St. Petersburg Campus
A.B.; M.S.L.S., Case Western Reserve University, 1953
- SHIFFMAN, SAUL M. Assistant Professor (Psychology), 1981
B.S.; M.A., Ph.D., University of California, Los Angeles, 1981
- SHIKARPURI, ROSHAN L. Visiting Lecturer (Accounting), 1981
B.S., M.Acc., Florida State University, 1976
- SHILOH, AILON Professor (Anthropology), 1973
B.A.; M.A.; Ph.D., Dropsie University, 1959
- SHIPP, PAMELA S. Associate University Librarian (Libraries), 1972
B.A.; M.Ln., Emory University, 1972
- SHIRES, DANA L., JR. Professor (Internal Medicine), 1973
B.S., M.D., University of Florida, 1961
- SHIVER, ROBERT H. Assistant Director (Golf Course, Student Affairs), 1969
B.S., University of Florida, 1961
- SHOWS, E. WARREN Professor (Economics), 1964
B.B.A., M.B.A., Ph.D., Georgia State University, 1968
- 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.
- SIEGEL, RICHARD L. Assistant Professor (Pediatrics), 1981
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- SILBERT, EDWARD M. Assistant Dean (Social & Behavioral Sciences)-Associate Professor (History), -Coordinator (Advising), 1965
B.S.; M.A.; Ph.D., University of Florida, 1966
- SILBIGER, MARTIN L. Associate Professor (Radiology), 1973 (Part time)
A.B.; M.D., Western Reserve University, 1962
- SILVER, ARCHIE A. Professor (Psychiatry), 1978
B.S., M.D., New York University College of Medicine, 1940
- SILVER, BRUCE S. Associate Professor (Philosophy), 1971
B.A., M.A., Ph.D., University of Colorado, 1971
- SILVER, WARREN S. Professor (Biology), 1970
B.S., M.S.; Ph.D., Johns Hopkins University, 1953
- SILVERMAN, IRA J. Associate Professor (Criminal Justice), 1972
B.A.; M.A., Ph.D., Ohio State University, 1970
- SILVERMAN, MITCHELL Professor (Criminal Justice), 1968
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- SILVERMAN, STUART H. Professor (Psychological and Social Foundations Education), 1970
B.B.A.; M.S., Ph.D., Yeshiva University, 1971
- SIMMONS, A. KEITH Director (Procurement), 1969
B.A., University of South Florida, 1968
- SIMMONS, MICHAEL K. Director (Media Relations and Publications), 1979
B.S., University of Florida, 1970
- SIMON, JOSEPH L. Professor (Biology), 1963
B.S.; M.S., Ph.D., University of New Hampshire, 1963
- SINGH, SURENDRA P. Professor (Exceptional Child Education), 1967
B.A., M.A.S.; Ed.D., University of California, Los Angeles, 1967
- SISCO, JOHN I. Professor-Chairperson (Communication), 1968
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- SISK, DOROTHY D. Professor (Exceptional Child Education), 1966
B.S.; M.A.; Ed.D., University of California, Los Angeles, 1966
- SISTRUNK, FRANCIS Professor (Psychology), 1965
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- SKELTON, WILLIAM H. Associate Professor (Civil Engineering and Mechanics), 1971
B.S.; M.S.; Ph.D., Iowa State University, 1971
- SLEEPER, DAVID, C. Professor (Marketing), 1964
B.B.A., M.B.A.; Ph.D., Ohio State University, 1965
- SLIDER, DARRELL Assistant Professor (Interdisciplinary Social Sciences), 1981
B.A.; M.A., M.Phil., Ph.D., Yale University, 1981
- SMALL, NORMAN C. Professor (Civil Engineering and Mechanics), 1969
B.M.E.; M.M.E.; Ph.D., Brown University, 1960
- SMILLIE, DAVID Professor (Social Sciences), New College of USF, 1975 Sarasota Campus
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- SMITH, ALICE G. Professor (Library, Media and Information Studies Education), 1965
B.A., M.S., Ed.D., Wayne State University, 1965
- SMITH, CARLOS A. Associate Professor (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, CHARLES T. Associate Professor (Finance), 1968
B.A., M.B.A.; Ph.D., State University of New York at Buffalo, 1970 Grad. Cert.
- SMITH, DAVID H. Professor (Communication), 1976
B.S.; M.A.; Ph.D., Ohio State University, 1966
- SMITH, DONN L. Professor (Pharmacology and Comprehensive Medicine), 1969
B.A., M.S.; Ph.D., M.D., University of Colorado, 1958
- SMITH, ELTON E. Professor (English), 1961
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- 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. Assistant Dean-Associate Professor (Fine Arts), 1972
B.M.E.; M.M.E.; D.M.A., University of Missouri, 1979
- SMITH, JUEL H. University Counseling Psychologist (Counseling Center, Student Affairs), 1974
B.S.; M.A., University of South Florida, 1973
- SMITH, PHILIP L. Associate Professor-Chairperson (Social Work), 1975
B.S.; M.S.W., University of Georgia, 1968
- SMITH, WILLIAM A. Professor (Mechanical Engineering), 1966
B.S.M.E.; M.S., Ph.D., University of Florida, 1966
- SMITZES, MELPOMENE Associate Professor (Exceptional Child Education), 1965

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 SNIDER, ARTHUR D. Associate Professor (Mathematics), 1970
 B.S.; M.A.; Ph.D., *New York University*, 1971
 SNOOK, JANICE B. Associate Professor (Political Science), 1968
 A.B.; M.S.; Ph.D., *University of Maryland*, 1969
 SNYDER, LEE D. Professor (Social Science), New College of USF, 1975, Sarasota Campus
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 SNYDER ROBERT E. Assistant Professor (American Studies), 1980
 B.A.; M.A.; Ph.D., *Syracuse University*, 1979
 SNYDER, WALTER S. Instructor (Industrial and Management System Engineering), 1981
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 SODEMAN, WILLIAM A., JR. Professor-Chairperson (Comprehensive Medicine), 1975
 B.A.; M.D. *University of Pennsylvania*, 1960
 SOLC, HELAINE S. Visiting Assistant In Research (Diabetes Center), 1981
 B.A.; M.S.W., *University of Houston*, 1981
 SOLOMON, DAVID A. Associate Professor (Internal Medicine), 1976
 B.S.; M.D., *University of Maryland School of Medicine*, 1969
 SOLOMONS, T. W. GRAHAM Professor (Chemistry), 1960
 B.S.; Ph.D., *Duke University*, 1959
 SOLOMONSON, LARRY P. Associate Professor (Biochemistry), 1976
 B.A.; Ph.D., *University of Chicago*, 1969
 SOMMER, ADA M. Assistant Professor (Psychiatry), 1976 (Part time)
 B.S.; M.A., *University of Chicago*, 1935
 SPAIN, FRANK H. Director (Community College Relations), 1959
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 SPARKS, AMY J. Associate Professor (Humanities), 1968
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 SPECTER, STEVEN C. Assistant Professor (Medical Microbiology), 1979
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 SPENCE, JAMES G. Assistant Professor (Economics), 1975
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 SPIEGEL, PHILLIP G. Professor (Surgery), 1978
 B.A.; M.D., *Northwestern University*, 1960
 SPIELBERGER, CHARLES D. Professor (Social Science Program of Distinction), 1972
 B.S.; B.A.; M.A.; Ph.D., *University of Iowa*, 1954
 SPILLANE, JAMES R. Assistant Professor (Humanities), 1966
 B.S.; M.A., *University of Iowa*, 1966
 SPILLMAN, CAROLYN V. Assistant Professor (Childhood and Language Arts Education), 1977, Ft. Myers Campus
 A.B.; M.Ed.; Ph.D., *University of North Carolina*, 1972
 SPROLES, H. ALLAN Associate Professor (Exceptional Child Education), 1971
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 STABLEIN, JOHN J. Visiting Assistant Professor (Internal Medicine), 1981 (Part time)
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 STAFFORD, JOHN W. Associate Professor (Geography), 1969
 B.S.; M.S.; M.A.; Ph.D., *Michigan State University*, 1971
 STALNAKER, LEO, JR. Associate Professor-Director (Student Publications, Student Affairs), 1969
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 STANKO, JOSEPH A. Associate Professor (Chemistry), 1973
 B.S.; Ph.D., *University of Illinois*, 1966
 STANTON, KENNETH D. Director (Instructional Media, Educational Resources), 1964
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 STARK, WILLIAM R. Assistant Professor (Mathematics), 1978
 B.S.; Ph.D., *University of Wisconsin*, 1975
 STEELE, CHRISTOPHER L. Assistant Professor (Theatre), 1979
 B.A.; M.F.A., *Southern Methodist University*, 1979
 STEINER, H. EDWIN, JR. Associate Dean-Professor (College Administration, Education), 1969
 B.S.; M.A.; Ph.D., *University of Texas*, 1970
 STEINKE, GEORGE C. Associate Professor (Economics), 1970
 B.S.; Ph.D., *University of California, Berkeley*, 1963
 STEINMETZ, JOHN C. Assistant Professor (Marine Science), 1977, St. Petersburg Campus
 B.S.; M.S.; Ph.D., *University of Miami, Florida*, 1977
 STELZMAN, RAINULF A. Professor (Foreign Languages), 1963
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 STENMARK, DAVID E. Professor-Program Director (Psychology), 1977
 B.A.; Ph.D., *University of Alabama*, 1969
 STEPHENS, GERALD B. Lecturer (Fine Arts Events), 1981
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 STEPHENS, WILLIAMS L. Associate Professor (Accounting), 1971
 B.S.; M.Acc.; D.B.A., *Florida State University*, 1971, C.P.A.
 STERLING, ALAN L. Visiting Assistant Professor (Psychiatry), 1980
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 STEVENS, BRIAN Professor (Chemistry), 1967
 B.A.; M.A.; Ph.D., D.Sc., *Oxford University, England*, 1977
 STEVENS, DANA N. Associate Professor (Social Sciences), New College of USF, 1976 Sarasota Campus
 B.A.; Ph.D., *Stanford University*, 1973
 STEVENS, NOEL S. Associate Professor (Music), 1970
 B.M.; M.M.; D.M.A., *Eastman School of Music*, 1959, Artist's Diploma
 STEVENS, WILLIAM D. Professor (Marketing), 1968
 A.B.; Ph.D., *Harvard University*, 1950
 STEWART, MARK T. Associate Professor (Geology), 1976
 A.B.; M.S.; M.S., Ph.D., *University of Wisconsin*, 1976
 STIRLING, HAMILTON W. Lecturer (Management), 1971
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 STITH, MELVIN T. Assistant Dean-Assistant Professor (Business Administration), 1977
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 STITH, PATRICIA L. Counselor/Adviser (Academic Services), 1977
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 STONE, CAROLYN L. Counselor/Adviser (Project Thrust, Academic Affairs), 1979
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 STONE, DOUGLAS E. Professor (Measurement and Research Education), 1964
 B.A.; M.A.; Ph.D., *University of Chicago*, 1962
 STORR, KARL Instructor (Mass Communications), 1973
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 STODINGER, SUSAN M. Associate Dean (Social and Behavioral Sciences)-Associate Professor (Political Science), 1969
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 STOWERS, DEWEY M., JR. Associate Professor (Geography), 1967
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 STRANGE, JAMES F. Dean-Professor (Arts and Letters), 1972
 B.A.; M.Div.; Ph.D., *Drew University*, 1970
 STRENGLEIN, DENISE D. Acting Director (Institutional Research), 1970
 B.A.; M.A., *University of South Florida*, 1969
 STROM, RICHARD N. Associate Professor (Geology), 1977
 B.S.; M.S.; Ph.D., *University of Delaware*, 1975
 STRONG, PASCHAL N. Professor (Psychology), 1966
 A.B.; Ph.D., *University of Tennessee*, 1955
 STRONG, SALLIE J. Associate Professor (English), 1963
 B.A.; M.S.; Ph.D., *University of Florida*, 1971
 SU, SHING-FONG Visiting Assistant Professor (Electrical Engineering), 1981
 B.S.; M.S.; Ph.D., *Georgia Institute of Technology*, 1976
 SULLIVAN, LAURA G. Visiting Assistant Professor (Biochemistry), 1981
 B.A.; M.D., *University of South Florida*, 1978
 SUMMER, AVERILL V. Assistant Professor (Music),

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B.A.; M.M., D.Mus., Indiana University, 1979
- SUMMER, ROBERT J., III Associate Professor (Music Arts), 1973
B.S.; M.M., D.Mus., Indiana University, 1978
- SURAWICZ, FRIDA G. Professor (Psychiatry), 1980
M.D., University of Munich, Germany, 1943
- SUTER, BRUCE W. Lecturer (Computer Science Engineering), 1981 (Part time)
B.S.E., M.S.E., University of South Florida, 1972
- SUTTON, CARL H. Professor (Surgery), 1980
A.B.; M.D., Indiana University Medical School, 1980
- SWANSON, JAMES M. Associate Professor (History), 1964
B.A.; M.A.; Ph.D., Indiana University, 1968
- SWARTZ, WILLIAM E., JR. Associate Professor (Chemistry), 1972
B.S.; Ph.D., Massachusetts Institute of Technology, 1971
- SWEENEY, VIRGINIA Assistant Director-Instructor (Sponsored Research), 1965
- SWEGAN, DONALD B. Director (University Development), 1980
B.A.; M.A.; Ed.D., Pennsylvania State University, 1957
- SWIERCZEK, FREDRIC W. Assistant Professor (Political Science), 1977
B.A.; Ph.D., University of Pittsburgh, 1978
- SWIHART, STEWART L. Professor-Chairperson (Biology), 1970
B.A.; M.S., Ph.D., Lehigh University, 1964
- SZENTIVANYI, ANDOR Dean (Medicine)-Director (Medical Center)-Professor-Chairperson (Pharmacology and Therapeutics), 1970
M.D., University Medical School, Debrecen, Hungary, 1950
- TALLIS, JOAN E. Area Administrator (Housing and Food Service, Student Affairs), 1963
B.S.; M.S.Ed., Syracuse University, 1963
- TAMPA, RAYMOND V. Counselor/Adviser (Project Thrust, Academic Affairs), 1979
B.A.; M.S., Nova University, 1978
- TATUM, JIM C. Associate Professor (Foreign Languages), 1963
B.A.; M.A., Ph.D., Tulane University, 1968
- TAUGHER, C. DAVID Visiting Instructor (Communication), 1981
B.S.; M.A., University of South Florida, 1979
- TAYLOR, CHARLES D. Assistant Professor (Internal Medicine), 1978
A.B.; M.D., Emory University School of Medicine, 1972
- TAYLOR, PHYLLIS M. Associate University Librarian (Libraries), 1980
B.A.; M.S.L.S., Atlanta University School of Library and Information Studies, 1974
- TAYLOR, RICHARD N. Assistant Professor-Program Director (Philosophy), 1969
B.A.; B.D.; M. Phil., Yale University, 1969
- TAYLOR, ROBERT W. Assistant Professor (Criminal Justice), 1981
B.S.; M.S.; Ph.D., Portland State University, 1981
- TAYLOR, SPAFFORD C. Associate Professor (Elective Physical Education, Education), 1963
B.S.; M.A., George Peabody College, 1960
- TAYLOR, WILLIAM E. Visiting Coordinator (Adult and Vocational Education), 1981
B.A., M.A., University of South Florida, 1972
- TEDESCO, THOMAS A. Associate Professor (Pediatrics), 1974
B.S.; Ph.D., University of Pennsylvania, 1969
- TERRITO, LEONARD Professor-Acting Chairperson (Criminal Justice), 1978
B.A., M.A.; Ed.D., Nova University, 1975
- THIELEKER, ERNEST A. Associate Professor (Mathematics), 1970
B.S.; M.S.; Ph.D., University of Chicago, 1968
- THOMES, DELBERT C. Systems Coordinator (Computer Research Center), 1968
B.S.; M.B.A., Rollins College, 1967
- THOMES, SHIRLEY M. Institutional Research Coordinator (Institutional Research), 1969
B.S.Ed., State University of New York, Brockport, 1951
- THOMPSON, ROBERT B. Acting Coordinator (Business Administration), 1976
B.A., M.B.A., University of South Florida, 1980
- THOMPSON, SHERMAN Associate Professor (Adult and Vocational Education), 1966
B.A., M.A.; Ph.D., Florida State University, 1976
- THORNBERRY, PATRICIA L. Department Head-Associate University Librarian (Libraries), 1979
B.A.; M.L.S., George Peabody College for Teachers, 1973
- THORNTON, JOHN J. Visiting Lecturer (Management), 1980
B.S.; M.S., University of South Florida, 1973
- TILLMAN, JAMES S. Associate University Librarian (Medical Center Library), 1972
B.A.; M.L.S., Emory University, 1970
- TIPPS, G. KELLY Assistant Professor (History), 1969
B.A., M.A.; Ph.D., University of Colorado, 1971
- TOGIE, DAVID, JR. Lecturer (Mass Communications), 1978
B.A., University of Maryland, 1970
- TOMAINO, JOSEPH M. Director, Alumni Affairs (University Relations), 1967
B.A.; M.A., University of South Florida, 1971
- TOMINAGA, YOSHINORI Visiting Research Associate (Chemistry), 1981
B.P., M.S.; Ph.D., Kyushu University, 1974
- TORCZYNSKI, ELISE Associate Professor (Ophthalmology), 1975
B.S.; M.D., Marquette School of Medicine, 1969
- TORRES, JOSEPH J. Assistant Professor (Marine Science), 1980
B.S.; M.A., Ph.D., University of California at Santa Barbara, 1980
- TOWERY, GENE M. Associate Professor (Reading Education), 1970 St. Petersburg Campus
B.S.; M.S., Ed.D., Florida State University, 1971
- TOWERY, HENRY H. Associate Professor (Marketing), 1970
B.S.; M.B.; D.B.A., Florida State University, 1969
- TRAUTH, STANLEY E. Visiting Assistant Professor (Biology), 1981
B.S., M.A.; Ph.D., Auburn University, 1980
- TREMMEL, WILLIAM C. Professor-Chairperson (Religious Studies), 1969
A.B.; Th.M., Th.D., Iliff School of Theology, 1950
- TRICE, ISIAH Assistant Professor (Elective Physical Education, Education), 1970
B.S.; M.S., University of Colorado, 1961
- TRONCOSO, ANA N. University Physical Planning Consultant (Facilities Planning), 1980
B.S.; M.S., Universidad De La Habana School of Architecture, 1957
- TROUTMAN, ANDRIA M. Professor (Math Education), 1971
B.S.; M.A.; Ed.D., University of Florida, 1971
- TRUITT, WILLIS H. Professor-Chairperson (Philosophy), 1968
A.B.; A.M., Ph.D., Boston University, 1968
- TSERPES, NICHOLAS A. Professor (Mathematics), 1968
B.A.; M.A., Ph.D., Wayne State University, 1968
- TSOKOS, CHRIS P. Professor (Mathematics), 1972
B.S., M.S.; Ph.D., University of Connecticut, 1968
- TSOKOS, JANICE O. Associate Professor (Chemistry), 1972
B.S.; Ph.D., University of Rhode Island, 1969
- TURBEVILLE, JOSEPH E., JR. Lecturer (Physics), 1964
B.A., M.A., University of South Florida, 1968
- TURNER, STEPHEN P. Associate Professor (Sociology), 1975 St. Petersburg Campus
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
- TYNER, JOHN L., JR. University Physician (Student Health Service, Student Affairs), 1972 (Part time)
B.S.; M.D., Medical School of South Carolina, 1965
- UNRUH, ANITA Associate Professor (Art and Music Education), 1968
B.S.; M.A., University of Illinois, 1959
- UPCHURCH, SAM B. Associate Professor (Geology), 1974
A.B.; M.S., Ph.D., Northwestern University, 1970
- UPRICHARD, A. EDWARD Associate Dean-Professor (Math Education), 1968
B.A.; M.S., Ph.D., Syracuse University, 1969
- URAVICH, PAUL A. Director (University Safety and Security), 1973
B.S., M.S., Florida State University, 1970
- UZZELL, DOUGLAS J. Visiting Assistant Professor (Anthropology),

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B.A.; M.A.; Ph.D., University of Texas at Austin, 1972
 VALENTINE, VIRGINIA W. Lecturer (English), 1968
B.A.; M.A., Southern Methodist University, 1951
 VAN COTT, MARY LOU Instructor (Nursing), 1981
B.S., University of South Florida, 1978
 VAN NESTE, ROY J. Assistant Professor (History), 1971
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 VAN VLEET, EDWARD S. Assistant Professor (Marine Science),
 1979 St. Petersburg Campus
B.S., B.A.; M.S.; Ph.D., University of Rhode Island, 1978
 VAN VOORHIS, KENNETH R. Professor (Management), 1970
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 VAN VOORST, STEVEN J. Assistant Professor (Surgery), 1979
B.S.; M.D., Indiana University School of Medicine, 1972
 VANDEN, HARRY E. Associate Professor (Political Science), 1975
B.A.; M.A.; Ph.D., The New School for Social Research, 1976
 VANDOR, SANDOR L. Assistant Professor (Chemistry), 1977
B.A.; M.S.; Ph.D., Ohio State University, 1967
 VARANASI, MURALI R. Associate Professor (Computer Science
 Engineering), 1980
B.S.; D.M.I.T.; M.S., Ph.D., University of Maryland, 1973
 VARGAS, ALFONSO Assistant Professor (Pediatrics), 1979
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 VARGO, GABRIEL A. Assistant Professor (Marine Science),
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 VASEY, FRANK B. Assistant Professor (Internal Medicine),
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 VASTINE, JAMES P. Assistant Department Head-University
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 VEGA, MANUEL Associate Professor (Criminal Justice),
 1965, Sarasota Campus
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 VENDLEY, WILLIAM F. Visiting Lecturer (Accounting), 1981
B.C.S., M.A., Northwestern University, 1937
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 VEST, SUSAN E. Assistant In (Biology), 1981
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 Justice), 1974
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 Medicine), 1980
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 VIGO, CARMEN Visiting Assistant Professor (Bio-
 chemistry), 1981
B.Ed.; Ph.D., University of Madrid, 1979
 VILLEME, MELVIN G. Program Director (Student Personnel),
 Associate Professor (Educational Leadership Education), 1971
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 VINCELETTE, JOYCE P. Assistant Professor (Management), 1977
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 VINCENT, ALBERT L. Assistant Professor (Comprehensive
 Medicine), 1978
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 VINER, ARON Assistant Professor (Social Sciences),
 New College of USF, 1981 Sarasota Campus
B.A.; M.Sc.; Ph.D., London School of Economics, 1979
 VISOT, LUIS R. Counselor to Students (Housing and Food
 Service, Student Affairs), 1981
B.A.; M.Ed., University of Georgia, 1980
 VOGEL, DENIS E. Assistant Professor (Mass
 Communications), 1979
A.B.; M.A.; Ph.D., Florida State University, 1979
 WALBOLT, DANIEL R. Vice President (Student Affairs), 1969
B.S., J.D., New York University, 1965
 WALDEN, ERIC L. University Comptroller (Finance and
 Accounting), 1973
B.S.; M.B.A., East Texas State University, 1973
 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. Instructor (Management), 1979
B.S.; M.S., Georgia Institute of Technology, 1972
 WANG, TING-YEUNG Assistant Professor (Pathology), 1978
M.D., National Defense Medical Center, Taiwan, 1971
 WARFIELD, NANCY R. Assistant Professor (Music Arts), 1980
B.M., Oberlin Conservatory, 1977
 WARNER, JOSEPH S., IV Director (Environmental Health
 and Safety), 1976
B.S.; M.A., California State University, Los Angeles, 1975
 WARREN, JOHN R. Assistant Professor (Family Medicine), 1978
A.B., M.D., Indiana University School of Medicine, 1969
 WATERMAN, PATRICIA P. Assistant Professor (Anthropology), 1969
B.S.; M.A., Ph.D., University of California, Berkeley, 1978
 WATKINS, ARMIN J. Professor (Music Arts), 1960
B.M., M.M.; D.M., Indiana University, 1957
 WATKINS, GEORGE M. Professor-Associate Chairperson
 (Surgery), 1975
B.A.; M.D., Vanderbilt University School of Medicine, 1960
 WEATHERFORD, DORIS L. Acting Coordinator (Weekend College,
 Continuing Education), 1981
B.A., Arkansas Tech University, 1964
 WEATHERFORD, ROY C. Associate 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, SYDNEY J. Professor (Physics), 1973
*B.Sc.; B.Sc., M.Sc., D.I.C., Ph.D.; D.Sc., University of London,
 1968*
 WEBER, DONALD O. Assistant Professor (Surgery), 1978
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 WEBER, JILL D. Area Administrator (Housing and Food
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B.S., Florida State University, 1976
 WEBER, LEE A. Assistant Professor (Biology), 1977
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 WEEKS, GERALD M. Associate Professor (Math Education),
 1970 St. Petersburg Campus
B.S.; M.Ed., Ed.D., University of Georgia, 1970
 WEINBERG, HERMAN Associate Professor (Professional
 Physical Education, Education), 1970
B.S.; M.A.; Ed.D., Temple University, 1969
 WEINZIERL, JON E. Associate Professor (Chemistry), 1973
B.S.; Ph.D., California Institute of Technology, 1968
 WEIR, ELIZABETH W. Coordinator (Fine Arts Events), 1980
B.F.A., University of Georgia, 1969
 WEISS, AVERY H. Assistant Professor (Ophthalmology), 1981
B.S.; M.D., University of Miami, Florida, 1974
 WEITZEL, CHARLES J., JR. Assistant Professor (Surgery), 1981
B.A.; M.D., University of South Florida, 1976
 WELKER, ROBERT F. Associate Professor (Accounting/
 Business Law), 1966
A.B.; J.D.; M.B.A., University of South Florida, 1974
 WELLS, DANIEL A. Professor (English), 1970 St. Petersburg
 Campus
B.A.; M.A., Ph.D., Duke University, 1972
 WELTER, CLYDE W. Associate Professor (Adult Vocational
 Education), 1979
B.S.; Ph.D., Ohio State University, 1970
 WENZEL, STEVEN G. Vice President (Employee Relations
 and Legal Affairs), 1972
B.A.; J.D., University of Florida, 1972
 WENZINGER, GEORGE R. Associate Professor (Chemistry), 1963
A.B.; Ph.D., University of Rochester, 1960
 WEST, ROBERT J. Professor-Chairperson (Accounting/
 Business Law), 1964
B.S., M.S., Florida State University, 1961, C.P.A.
 WEST, WILLIAM W. Professor (Social Science and Letters
 Education), 1970
B.A.; M.A.; Ph.D., Syracuse University, 1966
 WHEELER, BARBARA A. Visiting Associate Professor (Afro-
 American Studies), 1980
B.A.; M.I.A., Ed.D., Columbia University, 1980

- WHEELER, RAYMOND H. Professor (Sociology), 1965
B.S.; M.A.; Ph.D., *University of Michigan*, 1962
- WHIPPLE, PHYLLIS D. SUS-RDC Systems Programmer (Regional Data Center), 1981
B.A., *University of South Florida*, 1978
- WHITAKER, ROBERT D. Professor (Chemistry), 1962
B.S.; Ph.D., *University of Florida*, 1959
- WHITE, MICHAEL J. Assistant Professor (Management), 1968
B.E.E.; M.B.A.; Ph.D., *University of Florida*, 1972
- WHITE, ROBERT L. Visiting Assistant Professor (Social Work), 1978
A.B.; M.S.W.; *University of North Carolina*, 1963
- WHITEFORD, LINDA M. Assistant Professor (Anthropology), 1981
B.A.; M.A., Ph.D., *University of Wisconsin, Milwaukee*, 1979
- WHITNEY, VERNON W. Associate Professor (Social Science and Letters Education), 1966
B.A.E.; M.A., Ed.D., *Columbia University*, 1961
- WHITTAKER, GERALD F. Associate Professor (Accounting), 1978
St. Petersburg Campus
B.A.; M.A.; M.B.A.; Ph.D., *Northwestern University*, 1974
- WIEAND, KENNETH F. Associate Professor (Finance), 1980
B.S.; M.A., Ph.D., *Washington University in St. Louis*, 1970
- WIENKER, CURTIS W. Associate Professor (Anthropology), 1972
B.A.; M.A., Ph.D., *University of Arizona*, 1975
- WIGGINS, JAY R. Associate Professor (Pharmacology), 1976
B.S.; Ph.D., *Columbia University*, 1975
- WILES, JON W. Professor (Reading Education), 1981
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B.A.E.; M.Ed., Ed.D., *University of Florida*, 1972
- WILK, ROGER E. Professor (Educational Measurement and Research), 1972
B.S.; M.A., Ph.D., *University of Minnesota*, 1957
- WILKERSON, JUDY R. Grants Development Coordinator (Sponsored Research), 1981
B.A., M.A., M.B.A., *The American University*, 1978
- WILLETTS, RUTH J. Assistant Professor (Social Work), 1981
B.A., M.S.W., *University of Hawaii*, 1975
- WILLIAMS, CAROL A. Associate Professor (Mathematics), 1968
B.A.; Ph.D., *Yale University*, 1967
- WILLIAMS, CHARLES C. Assistant Professor (Internal Medicine), 1980
B.S.; M.D., *University of Pittsburgh*, 1973
- WILLIAMS, DAVID K. Assistant Professor (Theatre Arts), 1975
B.A., *University of South Florida*, 1973
- WILLIAMS, JAMES R. Associate 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, JUANITA H. Professor (Interdisciplinary Social Science), 1966
A.B.; M.A., Ph.D., *Temple University*, 1963
- WILLIAMS, MARVIN T. Assistant Professor (Biochemistry), 1978
B.S.; M.Ed.; M.S.; Ph.D., *Cornell University*, 1976
- WILLIAMS, PAUL R. Associate Professor (Pediatrics), 1979
B.S.; M.D., *Washington University School of Medicine*, 1969
- WILLIAMS, THOMAS A. Professor (Psychiatry), 1981
A.B.; M.D., *Columbia University*, 1963
- WILLIAMS, WALTER E. Assistant Professor (Natural Sciences), 1961
B.A., M.A.; Ed.D., *Nova University*, 1979
- WILLIAMSON, G. BRUCE Assistant Professor (Biology), 1975
B.A., B.S.; M.S., Ph.D., *Indiana University*, 1975
- WILMOTH, FRANK R. Assistant Professor (Physiology), 1979
B.S.; Ph.D., *University of Missouri*, 1979
- WILSON, MARILYN K. Instructor (Psychiatry), 1970 (Part time)
B.A., M.S., *Wayne State University*, 1968
- WILSON, ROBERT M. Assistant Professor (Economics), 1978
B.A.; M.A., Ph.D., *Northwestern University*, 1977
- WILSON, THOMAS C. Associate Professor (Library, Media and Information Studies Education), and Y.O.U. (Educational Resources), 1968
B.S., M.A., Ed.D., *Wayne State University*, 1970
- WIMMERT, ROBERT J. Professor (Industrial and Management Systems Engineering), 1964
B.S.M.E., M.S.I.E., Ph.D., *Purdue University*, 1957
- WINCH, ANNABELLE M. Assistant to Vice President (Student Health Service, Student Affairs), 1960
B.A., M.A., *University of South Florida*, 1969, R.N.
- WINSOR, WILLIAM J. Lecturer (Fine Arts Events), 1981
B.A.; M.F.A., *Ohio State University*, 1981
- WOLFE, ALVIN W. Professor (Anthropology), 1974
A.B.; Ph.D., *Northwestern University*, 1957
- WOODBURY, ARTHUR N. Associate Professor (Music Arts), 1972
B.S., M.M., *University of Idaho*, 1955
- 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 Assistant Professor (Visual Arts), 1980
B.A.; M.F.A., Ph.D., *Princeton University*, 1976
- WRONG, CHARLES J. Lecturer (History), 1970
B.A., M.A.; Ph.D., *Brown University*, 1968
- 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
- YAGER, DAVID Associate Professor (Visual Arts), 1974
B.A.; M.F.A., *Florida State University*, 1974
- YANGCO, BIENVENIDO G. Assistant Professor (Internal Medicine), 1979
B.S.; M.M.A., M.P.H.; M.D., *Far Eastern University*, 1970
- YARNOZ, MICHAEL D. Associate Professor (Surgery), 1977
B.S., M.D., *Navarra Medical School, Pamplona, Spain*, 1963
- YEGIDIS, BONNIE L. Assistant Professor (Social Work), 1977
B.A.; M.S.W., *West Virginia University*, 1976
- YING, SHUH-JING Associate Professor (Mechanical Engineering), 1978
B.S.; M.S.; Ph.D., *Harvard University*, 1965, P.E.
- YODER, CHRIS Assistant Professor (Art and Music Education), 1978
B.A.; M.S., Ed.D., *University of Illinois*, 1978
- YODER, MYRA S. Associate University Librarian (Extension Library), 1979, St. Petersburg Campus
M.S.L.S., *Florida State University*, 1972
- YOUNG, JANE F. Assistant Professor (Professional Physical Education, Education), 1970
B.Sc.Ed., M.A., *Miami University, Ohio*, 1975
- YOUNG, JOANNE E. Associate Professor (Elective Physical Education, Education), 1961
B.S.; M.Ed., *University of North Carolina*, 1955
- YOUNG, JOHN E. Director (Radio Stations), 1975
B.A.; M.A., *Illinois State University*, 1967
- ZBAR, FLORA J. Assistant Professor (English), 1965
B.A.; M.A., *Florida State University*, 1962
- ZERLA, FREDRIC J. Associate Professor (Mathematics), 1963
B.A.; M.S., Ph.D., *Florida State University*, 1967
- ZIEBURTZ, ROBERT H. Assistant Professor (Neurology), 1980
B.S.; M.D., *University of Basel Medical School, Switzerland*, 1967
- ZINOBER, JOAN W. Visiting Assistant Professor (Psychiatry), 1980 (Part time)
B.A.; M.A., Ph.D., *University of Connecticut*, 1970
- ZUREICH, RAYMOND Director (Internal Auditing), 1981
B.S.; M.B.A., *University of South Florida*, 1972
- ZYLSTRA, SAPE A. Associate Professor (Humanities), 1969
B.A.; B.D.; Ph.D., *Emory University*, 1969

RETIRED FACULTY AND ADMINISTRATIVE STAFF

- ABBEY, WALTER R. Lecturer (Engineering), 1966-1980
 AGENS, FREDERIC F. (Deceased) Lecturer (Physical Science), 1960-1971
 AGENS, JEANETTE F. Assistant Professor (Education), 1963-1972
 ALLEN, EDMUND E. Associate Professor (Interdisciplinary Social Science), 1964-1981
 ALLEN, JOHN S. President Emeritus, 1957-1970
 ANDERSON, CELIA L. Assistant Professor (Education), 1967-1976
 ANDERSON, LOUIS V. Associate Professor (Psychological and Social Foundations Education), 1963-1980
 ASHFORD, THEODORE Professor Emeritus (Chemistry), Dean Emeritus (Natural Sciences), 1960-1981
 AULETA, MICHAEL S. Professor (Education), 1967-1973
 AUSTIN, MARTHA L. Professor Emeritus (Reading Education), 1963-1980
 BEAUCHAMP, GEORGE E. Associate Professor (English), 1960-1971
 BILLINGSLEY, EDWARD B. Associate Professor (History), 1967-1977
 BOULWARE, JOE W. Lecturer (Geology), 1961-1973
 BRITTON, JACK R. Professor Emeritus (Mathematics), 1967-1976
 BRUSCA, DONALD D. University Physician (Student Health Center), 1965-1973
 CARR, ROBERT S. Visiting Lecturer (Mass Communications), 1968-1974
 CHEN, CHUNG HNAN Professor Emeritus (Philosophy), 1965-1975
 CLARK, CLARENCE C. Professor Emeritus (Physical Science), 1960-1969
 CLEARY, FLORENCE D. Lecturer (Education), 1964-1969
 CLOSE, JAMES A. Professor Emeritus (Finance), 1971-1975
 CLOUGH, W. LYNNDON Professor Emeritus (Humanities), New College of USF, 1975-1980 Sarasota Campus
 COOK, DORIS Department Head and University Librarian (Libraries), 1968-1979 St. Petersburg Campus
 COOPER, RUSSELL M. (Deceased) Dean Emeritus (Liberal Arts), Professor (Interdisciplinary Social Science), 1959-1975
 COWELL, GEORGE J. Professor Emeritus (Engineering), 1960-1973
 CRAIG, CALVERT J. Associate Professor (Educational Leadership Education), 1967-1981
 CRICKENBERGER, MARGARET E. Professor Emeritus (Physical Education, Education), 1961-1979
 DAUGHERTY, GEORGE G. Lecturer (Mass Communications), 1972-1980
 DEAN, HARRIS W. Vice President Emeritus (Academic Affairs), 1961-1971
 DEYO, WILLIAM A., JR. Associate Professor (Accounting), 1960-1973
 DOWNEY, PAUL M. Professor Emeritus (Industrial Systems Engineering), 1966-1977
 DUBOIS, LEADORE D. Associate Professor (Childhood and Language Arts Education), 1964-1980
 DUNN, EDGAR H. Lecturer (Accounting), 1970-1981 St. Petersburg Campus
 DWYER, ROY E. Lecturer (Childhood and Language Arts Education), 1967-1978
 FERNELIUS, W. CONARD Distinguished Professor Emeritus (Chemistry), 1970-1975
 FERRIS, MARY W. Associate University Librarian (Libraries), 1971-1981 St. Petersburg Campus
 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
 GLENNISON, EMILE G. Associate Professor Emeritus (Foreign Languages), 1967-1977
 HARTLEY, JACQUETTA W. Instructor (English), 1960-1972
 HAVEN, JULIA M. (Deceased) Professor Emeritus (Education), 1969-1974
 HEARN, THOMAS K. Assistant Professor (Education), 1967-1977
 HICKMAN, WILLIAM Assistant Professor (English), 1963-1969
 HUNNICUTT, CLARENCE W. (Deceased) Professor (Education), 1967-1977
 JAECHKE, DONALD J. Associate Professor (Adult and Vocational Education), 1963-1979
 JAMES, ROSELLA Assistant Professor (Economics), 1967-1979
 JOHNSON, GORDON A. Professor (Music Arts), 1963-1981
 JURGENSEN, LOUIS C. Professor (Accounting), 1966-1981
 KAPLAN, MAX Professor (Sociology), 1967-1978
 KAUDER, EMIL Distinguished Lecturer Emeritus (Economics), 1968-1973
 KELLER, WALTER D. Professor (Geology), 1970-1973
 LAKELA, OLGA (Deceased) Research Associate (Botany), 1960-1970
 LEVITT, ROBERT Director (Admissions, Student Affairs), 1968-1981
 LOW, EDMON Librarian Emeritus (Sarasota Library), 1975-1980
 LUCKENBACH, LEON R. Associate Professor (Mathematics), 1960-1974
 MACKAY, E. MAXINE Professor Emeritus (Humanities), 1961-1980
 MERRIAM, HARLAND C. Professor (Childhood and Language Arts Education), 1969-1981
 MILLER, GEORGE H. Program Director (Southeast Center Cooperative Education Grant), 1960-1980
 NELSON, GID E., JR. Professor Emeritus (Biology), 1960-1981
 NEUBERGER, HANS H. Professor Emeritus (Geography), 1971-1974
 NOER, RUDOLF J. Professor Emeritus (Surgery), 1970-1977
 OBERMEYER, CHARLES (Deceased) Lecturer (American Idea), 1964-1970
 O'HARE, LEO H. Lecturer (English), 1960-1969
 PALM, JOHN W. Assistant Professor Emeritus (Interdisciplinary Social Science), 1970-1981
 POPE, JAMES S. Lecturer (Education), 1969-1976
 PRESCOTT, GERALD R. Associate Professor (Music Education), 1967-1972
 RIMBEY, DONALD H. Professor (Energy Conversion Engineering), 1967-1980
 ROBERSON, BRUCE W. Lecturer (Accounting), 1966-1976 St. Petersburg Campus
 ROTHWELL, STUART C. Professor Emeritus (Geography), 1965-1979
 SANDERSON, ARTHUR M. Professor Emeritus (Mass Communications), 1965-1981
 SARETT, ALMA J. Professor Emeritus (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
 SILVER, JAMES W. Professor Emeritus (History), 1969-1979
 SMITH, B. OTHANEL Professor Emeritus (Education), 1969-1975
 SMITH, NORMAN V. Lecturer (Engineering), 1968-1975
 SOKOLSKY, ANATOLE Associate Professor (Modern Languages), 1961-1972
 STANTON, EDGAR E., JR. Professor (American Studies), 1960-1977
 STONE, LEO D. Lecturer (Finance), 1974-1981 St. Petersburg Campus
 STUBBLEBINE, ALBERT N., JR. Assistant Professor (Engineering), Coordinator (Cooperative Education Program), 1964-1968
 SULLIVAN, MARY S. University Librarian (Educational Resources), 1968-1979
 TIPTON, HENRY C. Assistant Professor (Biology), 1965-1980
 TOOTHMAN, REX C. Associate Professor (Adult and Vocational Education), 1970-1980
 TWIGG, JOHN F. Associate Professor (Engineering), 1964-1981
 URBANEK, RAYMOND A. (Deceased) Professor (Measurement and Research Education), 1961-1981
 WARD, ANNIE Professor (Measurement and Research Education), 1972-1980
 WARNER, ROBERT A. Professor Emeritus (Interdisciplinary Social Science), 1960-1975

WILEY, RUSSELL W. Professor-Coordinator (Education),
1966-1975

WINTHROP, HENRY (Deceased) Professor Emeritus (Inter-
disciplinary Social Science), 1960-1978

WUNDERLICH, HERBERT J. Vice-President For Student Affairs
Emeritus (Student Affairs), 1962-1972

WURSTER, MARGUERITE S. Associate Librarian (SUS Extension
Library), 1965-1978 St. Petersburg Campus



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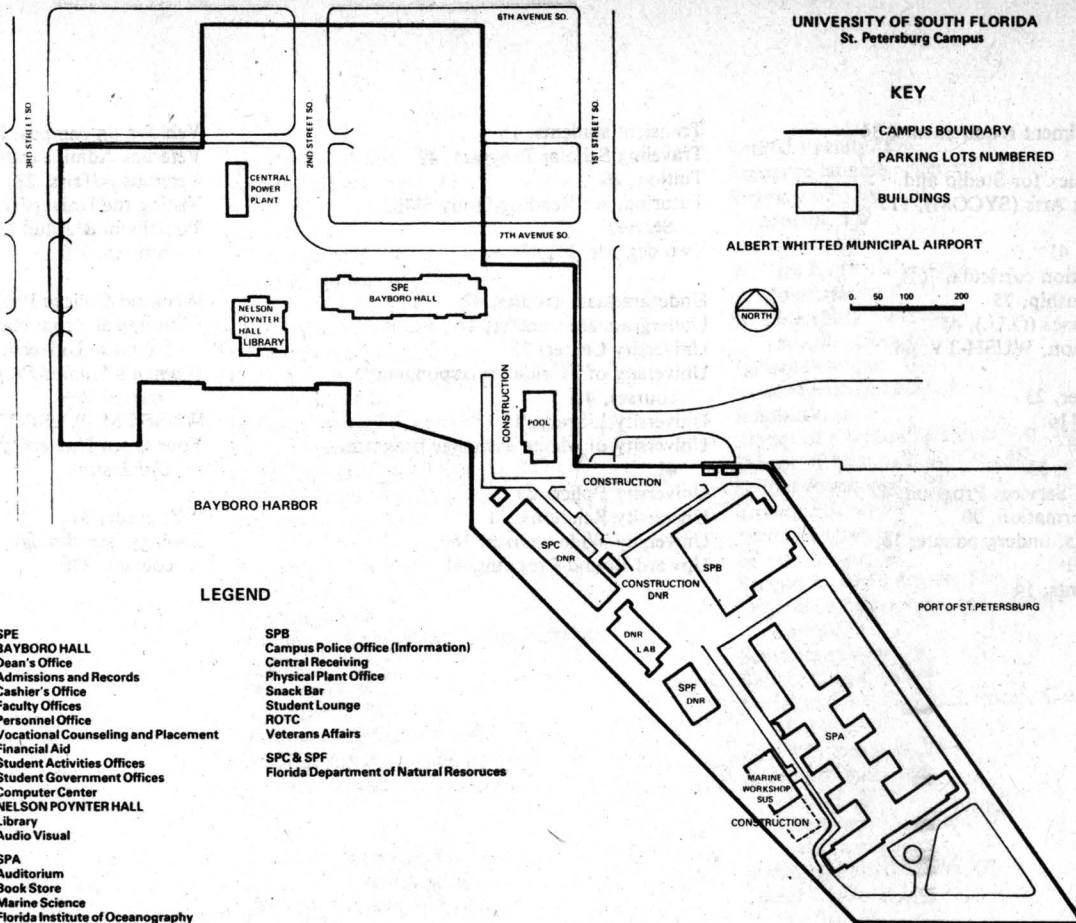
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Humanities - New College
- B College Hall (CHL)
Library
Music Room
Copy Center
- C Robertson Hall (ROB)
Foundation Office - New College
Admission - New College
Information Services
- D Pump House (PMP)
- E Social Sciences - New College (SSC)
- F The Barn - New College (BRN)
- G Palmer Building "E" (PME)
Informary
Counseling
- H Palmer Building "D" (PMD)
Administrative Services
Personal
Purchasing
Registrar/Student Records
Admissions - USF
- I Palmer Building "C" (PMC)
USF Faculty Offices
Student Lounge
Computer Classroom
- J Dorm Building "B" (PMB)
- K Hansen and Selby Buildings (HAN, SEL)
Natural Science - New College
- L Hamilton Classrooms (HCL)
Auditorium
Media Center
- M Hamilton Center (HCT)
University Police
Student Affairs
SAGA Cafeteria
Student Mailrooms
- N Sculpture Studio - New College (SCP)
- O Physical Plant (PHA)
Central Receiving
Campus Mailroom
Garage
- P Fine Arts Trailers - New College (FNA)
- Q Handball/Racquetball Court
Basketball Court
- R Tennis Courts
Swimming Pool
Volleyball Court
- S Dormitories (PDE, PDW, PDS)
Residence Life/Housing
Palm Court
- T Campus Bookstore (BKS)
- U Caples (CAP)
Environmental Studies

LEGEND

- Parking Lot (numbered)
- Buildings
- USF Campus Boundary
- ☎ Emergency Telephones
- 🏊 Swimming Pool
- 📖 Library
- 🔬 Natural Sciences
- Palmer Building "E"

