Accent on Learning

GENERAL CATALOG
of the
UNIVERSITY OF SOUTH FLORIDA
1972-73

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.

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No person shall, on the basis of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity at the University of South Florida. The University is an affirmative action Equal Opportunity Employer.
VISITING THE UNIVERSITY

Prospective students are invited to visit the University whenever possible. Many offices, including the Admissions Office, receive visitors only from 9:30 a.m. to 4:00 p.m. Monday through Friday. Given advance notice, the Admissions Office will arrange tour guides for visiting groups.

The University is located on Fowler Avenue (State Route 582) approximately two miles east of Interstate 75 and Nebraska Avenue (U.S. Route 41) and seven miles north of Interstate 4.

CORRESPONDENCE

Correspondence regarding various phases of the University program should be directed as follows:

**Application and admission information**
Office of Admissions

**Conferences and workshops (non-credit)**
Center for Continuing Education

**Courses and programs for freshmen**
Director, Division of University Studies

**Courses and programs for upperclassmen and graduates**
Office of the Dean of the appropriate college

**Financial assistance**
Director of Financial Aids

**Graduate study**
Office of the Dean of the appropriate college or Director of Graduate Studies

**Gifts and bequests**
University of South Florida Foundation

**Facilities for handicapped students**
Vice President for Student Affairs

**Housing assistance**
Housing Office, Auxiliary Services

**Placement and employment**
Career Planning & Placement Service

**Transcripts and records**
Office of Records & Registration

**General Information**
Office of Information Services

**Registration Information**
Office of Records & Registration

University of South Florida
Tampa, Florida 33620
University Telephone: 974-2011
(Area Code 813)

University of South Florida at St. Petersburg
830 First Street South
St. Petersburg, Florida 33701
Phone: (813) 898-7411
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The University of South Florida reserves the right to withdraw or change the announcements and information included in this Bulletin without notice.
QUARTER IV, 1971-72

NOTE: Dates apply to full 9-week term. See quarterly Schedule of Classes for appropriate dates for 3- and 6-week sessions.

May 12, Friday
June 12, Monday
June 13, Tuesday
June 19, Monday
June 19, Monday
June 19, Monday
June 27, Tuesday
June 27, Tuesday
July 3, Monday
July 4, Tuesday
July 14, Friday
July 21, Friday
August 11, Friday

Last day to apply for admission
Registration by appointment
Classes begin

Last day to add courses
Last day to withdraw and/or drop and receive full refund of registration fees
Last day for late registration (see late registration fee)
Last day to register for Continuing Education courses
Last day for Continuing Education course refund
Last day to apply for a degree to be earned at the end of Quarter IV, 1971-72
Independence Day Holiday
Last day to drop courses without penalty
Last day to withdraw without penalty
End of Quarter IV

QUARTER I, 1972-73

August 18, Friday
September 13, 14, 15
  Wed., Thurs., Fri.
September 19, Tuesday
September 25, Monday
September 25, Monday
November 9, Thursday
November 23, 24,
  Thurs., Fri.
December 6, Wednesday

Last day to apply for admission
Registration by appointment
Classes begin

Last day to withdraw and/or 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 for Continuing Education courses
Last day for Continuing Education course refund
Last day to apply for degree to be earned at the end of Quarter I, 1972-73
Last day to drop courses without penalty
Last day to withdraw without penalty
Thanksgiving Day Holiday
End of Quarter I
CALENDAR

December 4, Monday
January 2, 3, Tues., Wed
January 4, Thursday
January 10, Wednesday
January 10, Wednesday
January 18, Thursday
January 18, Thursday
January 24, Wednesday
February 5, Monday
February 14, Wednesday
February 23, Friday
March 22, Thursday

QUARTER II, 1972-73

Last day to apply for admission
Registration by appointment
Classes begin
Last day to withdraw and/or 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 for Continuing Education courses
Last day for Continuing Education course refund
Last day to apply for a degree to be earned at the end of Quarter II, 1972-73
Gasparilla Day Holiday
Last day to drop courses without penalty
Last day to withdraw without penalty
End of Quarter II

QUARTER III, 1972-73

February 26, Monday
March 26, 27, Mon., Tues.
March 28, Wednesday
April 3, Tuesday
April 3, Tuesday
April 11, Wednesday
April 11, Wednesday
April 17, Tuesday
May 8, Tuesday
May 10, Thursday
June 6, Wednesday
June 10, Sunday

Last day to apply for admission
Registration by appointment
Classes begin
Last day to withdraw and/or 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 for Continuing Education courses
Last day for Continuing Education course refund
Last day to apply for degree to be earned at the end of Quarter III, 1972-73
Last day to drop courses without penalty
Last day to withdraw without penalty
End of Quarter III
Commencement Convocation
QUARTER IV, 1972-73

Note: Dates apply to full 9 week term. See quarterly Schedule of Classes for appropriate dates for 3- and 6-week sessions.

May 11, Friday
June 7, 8, Thurs., Fri.
June 11, Monday
June 15, Friday

June 15, Friday
June 15, Friday

June 25, Monday
June 25, Monday
June 29, Friday
July 4, 5, 6, 7
Wed., Thurs., Fri., Sat.
July 14, Saturday
July 20, Friday
August 11, Saturday

Last day to apply for admission
Registration by appointment
Classes begin
Last day to withdraw and/or 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 for Continuing Education courses
Last day for Continuing Education Course refund
Last day to apply for a degree to be earned at the end of Quarter IV, 1972-73
Independence day Holiday and Mid-Quarter break
Last day to drop courses without penalty
Last day to withdraw without penalty
End of Quarter IV

COLLEGE OF MEDICINE

Academic Calendar 1972-73

SUMMER QUARTER, 1972

July 7, Friday
July 10, Monday
September 4, Monday
September 15, Friday

Registration (First-year students)
Classes begin
Labor Day Holiday
End of Summer Quarter

FALL QUARTER, 1972

September 15, Friday
September 18, Monday
November 23, 24
Thurs., Fri.
November 27, Monday
December 22, Friday

Registration (Second-year students)
Classes begin
Thanksgiving Day Holiday
Classes resume
End of Fall Quarter
(Christmas Vacation)

WINTER QUARTER, 1973

January 8, Monday
February 5, Monday
March 30, Friday

Classes resume
Gasparilla Day Holiday
End of Winter Quarter

SPRING QUARTER, 1973

April 2, Monday
June 15, Friday

Classes resume
End of Spring Quarter
GENERAL INFORMATION

The University of South Florida is many things—more than 20,000 students, faculty and staff members, over 100 academic programs and a 65 million dollar physical plant of 40 major buildings. On the following pages are cataloged information about the people, programs and facilities comprising the University. We hope that you find here the answers to your questions about these and other important aspects of the University. If you do not, feel free to contact the appropriate office(s) by mail or in person for the information you need.

History

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 the country planned and built entirely in this century. In addition, USF became the first state university in Florida located purposely in a major metropolitan center and represented the first step in a broad and comprehensive expansion of the state university system.

The State University System, directed by the Board of Regents, consists of nine public universities and includes the University of West Florida (Pensacola), The Florida State University (Tallahassee), the University of Florida (Gainesville), Florida Technological University (Orlando), Florida Atlantic University (Boca Raton), the University of South Florida (Tampa), and two universities now under development: the University of North Florida (Jacksonville) and Florida International University (Miami). Together with some 27 public junior and community colleges and a number of vocational-technical centers located throughout the state, these universities comprise the public institutions of higher learning in Florida.

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, is currently in progress.

In its brief history, the University of South Florida has had only two presidents. The founder and chief architect of the new university was Dr. John Allen, an astronomer and educator, who served as USF's first president from 1956-1970. Dr. Cecil Mackey, economist and lawyer, became the University's second president on February 1, 1971, and is presently leading the University in its second decade of development.

Now in its eleventh year of existence, the University has graduated more than 15,000 students—eighty per cent of whom reside in Florida. Enrollment in the fall of 1971 reached 18,496 and projections indicate that USF may well be the largest state university in Florida by the end of this decade.
Because of its location and the composition of its student body, it is obvious that USF is inextricably a part of the modern urban environment—and both affects and is affected by the communities surrounding and supporting it.

**USF: Part of the Urban Environment**

**ACCESSIBILITY**

The main campus of the University is located on a 1672-acre tract 10 miles northeast of downtown Tampa, a city of over a quarter of a million people. The campus is midway between U.S. 41 and 301 on State Highway 582, two miles east of I-75.

The St. Petersburg campus of USF is located on an eleven-acre tract in downtown St. Petersburg, a city of a third of a million people. Together with Clearwater, Tampa and St. Petersburg form anchor points of an urban sprawl rapidly becoming a megalopolis along the shores of Tampa Bay. Within commuting distance of the University live more than one and a half million people—nearly a quarter of the State's population. USF is the only public university easily accessible to most of them.

**THE CHALLENGE**

The megalopolis emerging on Florida's West Coast presents a major challenge to higher education in the State—the challenge of the unsolved problems inherent in modern urban development.

In a real sense, an urban sprawl is a laboratory—a laboratory in which are studied first-hand many of these problems. Air and water pollution, traffic snarls, crime in the streets and sub-standard housing are visible symptoms of some of the complex ills affecting our urban society. A university located in such a laboratory is in an advantageous position to study and eventually to help solve these problems.

**MISSION**

As the State's first urban 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 man. In this way, USF has sought to accomplish the special mission in the State University System set out in the *Comprehensive Development Plan (Code) of the State University System of Florida* (1969): The creation and development of programs “oriented toward the solution of problems peculiar to the modern urban environment.”

**Achieving the Mission: Measures of Success**

**Students Served**

Since opening our doors in September of 1960, the University of South Florida has been dedicated to accomplishing this special mission in the urban environment. One measure of our success is reflected in the composition of our student body:
• More than 90 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.
• Over one-third of our student body are part-time students, and forty percent are employed from one to forty hours per week.
• More than two-thirds of all USF students are 21 or older and about one-third of our students are married.
• Almost sixty percent of USF's more than 15,000 graduates reside in the Greater Tampa Bay Area.

Programs Offered

A measure of success in accomplishing our mission 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 housed in one of our nine colleges: Business Administration, Education, Engineering, Fine Arts, Languages & Literature, Medicine, Natural Sciences, Nursing, and Social & Behavioral Sciences.

In this Bulletin are discussed the major academic programs in the University. With 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. Ph. D. programs in Chemistry and Education began in 1969, and programs in English, Mathematics, and Psychology were authorized in 1971. The first Ph. D. (in Marine Biology) was awarded in June of 1971.

The University's teaching and research faculty, numbering more than 950, represents all major areas of higher learning, and nearly 60 percent hold doctoral degrees.

Academic Programs at the St. Petersburg Campus

Academic programs at the St. Petersburg campus are restricted to selected courses designed to serve students of junior, senior and graduate standing. Students may enroll as full-time students on the St. Petersburg campus or they may elect to enroll on both the St. Petersburg and the Tampa campuses simultaneously. Dual enrollments on both campuses may provide students with a class schedule which is both flexible and convenient.

A program of special note at the St. Petersburg campus is the Marine Science Institute of the University of South Florida. It is an interdisciplinary venture involving faculty members of several departments in a number of colleges in addition to the full-time faculty members at the St. Petersburg campus who are concerned with planning, administration, research, and teaching.

Probably no other oceanographic institution has ever been established with such excellent facilities as those provided by the St. Petersburg campus for teaching, research, and the docking and maintenance of oceanographic vessels. The location of the Institute, at the center of the edge of the great continental shelf of the Florida Gulf Coast and in the midst of the metropolitan area of the
Sun Coast, is another of its unique advantages. It would seem destined to develop into one of the nation’s leading oceanographic centers.

The Institute offers a program leading to the master of arts degree in marine science. During the summer quarter, the Institute offers one of the most comprehensive arrays of marine science courses to be found at any university in the nation. Most of these courses are open to both undergraduate and graduate students, and most of them are offered also during other quarters of the academic year.

Students interested in the marine science program should visit the St. Petersburg campus facilities and discuss their interests with the director of the Marine Science Institute.

Continuing Education

In addition to the academic programs offered on the Tampa and St. Petersburg campuses, a number of courses and programs are operated by the University’s Center for Continuing Education in 12 west central Florida counties. In this area, the Florida Board of Regents has designated the University of South Florida to be responsible for all higher education requirements beyond those supplied by the State Community and Junior College System.

The Center for Continuing Education maintains a branch office at 1015 S. Tamiami Trail in Sarasota, and operates a century-old mansion—Chinsegut Hill, near Brooksville—as an educational retreat for seminars and meetings.

Persons interested in the Continuing Education offerings should contact the director of the program on the Tampa campus.

Special Programs

A number of special programs offer USF students flexibility and relevance. They include the Off-Campus Term Program, Bachelor of Independent Studies (Adult Degree Program), and Cooperative Education Program. Each is described elsewhere in the Bulletin.

Organization

For administrative purposes, the University is organized into the three broad areas of academic affairs, student affairs, and administrative affairs. The vice presidents who head these three 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 the University Senate, comprising elected representatives from all areas of the University community. The President is responsible to the Florida Board of Regents for internal policy and the procedures of the University.

Physical Plant

The physical plant of the University, now including more than 40 major buildings, is currently valued at more than $65 million. The buildings are of similar, modern architectural design and all are completely air conditioned. Major buildings now in use include:

*John & Grace Allen Administration Building:* USF’s first building, housing
administrative and business offices and a number of special service units of the University;

Library: a five-story structure housing more than 325,000 volumes in open stacks;

University Center: the hub of student activities, with student and faculty offices, meeting rooms, recreation areas and classrooms, as well as a cafeteria, and the University Bookstore;

Theatre: the largest auditorium on campus, seating 550 persons for cultural events and also serving as a lecture and teaching auditorium;

Theatre Center: a facility with rehearsal rooms for dance, drama and opera, costume and prop shops, offices, and a Centre Stage for production preparation;

Chemistry Building: a classroom and laboratory facility with offices for faculty;

Life Sciences Building: housing the University's programs in biological sciences;

Fine Arts-Humanities Building: a rambling structure with separate wings for humanities, art and music;

Physics Building: housing physics, astronomy, and mathematics;

Planetarium: adjacent to the Physics Building, it is one of the few college facilities of its type in the South, and regular programs are presented under its 30-foot dome;

Argos and Andros residence halls and activities centers: two separate living areas housing 2,800 students and providing central dining, recreational and service facilities in 14 separate but coordinated buildings;

Business Administration Building: an imposing structure housing the dean and faculty of the College of Business Administration, classrooms, and a 430-seat teaching auditorium;

Engineering Building: housing the dean and faculty of the College of Engineering, classrooms, laboratories, and a 250-seat auditorium;

Physical Education Building: a facility housing the director and faculty of the Division of Physical Education, classrooms, gymnasium, activities area, and an indoor swimming pool;

Education Building: a three-story building housing the dean and faculty of the College of Education, classrooms, an auditorium seating 200, and an Instructional Materials Center;

Astronomy Observatory: located on the north campus adjacent to the University golf course, it houses a $1,000,000 photo-telescope and several smaller telescopes;

Science Center: completed in 1968, it houses laboratories and research facilities for graduate students and faculty, the USF Computer Research Center and temporary quarters for the College of Medicine;

Social Science Building: completed in 1968, it can accommodate 1,000 students in classes and laboratory work at the same time. The building includes 120 faculty offices, classrooms, seminar rooms, clinical and experimental research labs, weather and climatology labs, and a complete weather station;

Faculty Office Building: primarily a faculty office building, with facilities for faculty and student conferences.

Language-Literature Building: the newest facility on campus (completed in September, 1971), it houses the College of Language & Literature and includes 45 classrooms, seminar rooms, faculty offices, and a 500-seat auditorium.

Construction will soon begin on Phase I of the new USF Medical Center, a new classroom-library complex, and other needed facilities which will increase the value of the University's physical plant by two-thirds in the next few years.
Major Goals of the University

As a university, USF is an institution of higher learning consisting of several schools or colleges and offering programs in the liberal arts as well as in a number of professional areas. However, it is more than this; it is a place where new knowledge is sought, and old knowledge is synthesized in new ways through research and scholarship for the benefit of mankind.

However, the university should not be confused with a trade school where the detailed techniques of a trade can be learned by practice. The university—even the urban university—deals with professional areas more in theory than in practice, providing the broad background and understanding necessary to the development of specific skills. In this way it develops the intellectual judgments necessary to deal with the constantly changing problems of a given profession.

A university, moreover, should not be regarded simply as a place to prepare for a profession, important as that goal may be. One of its most important functions is providing all its students with a better understanding of life in a rapidly changing world. Man is surrounded by a natural environment and confronted by rapidly increasing knowledge of that environment. These are matters of human affairs which he needs to know about as an educated citizen and as a professional person. Hence, a university has an important obligation to provide in its educational program for all students those common elements which make for more responsible and responsive living.
A university is also a servant of the society which supports it, and at the same time it is one of the leaders of that society. It is the medium through which the greatest wisdom of the past and the living spirit of the present are passed on to new generations of young people to be used by them as leaders in the further advances of society toward goals of better and finer living.

In the classroom, subjects are dealt with objectively, critically, analytically and constructively, as well as inspirationally and creatively. The student is expected to learn to be analytical as well as creative in his own approach and to understand that such activities, to be constructive, must be carried out with a minimum of emotional bias and prejudice. He must learn to understand that in a democracy points of view will differ and there may be no wholly right or wrong answers to many questions, only better or worse answers from the viewpoint of society or the individual. He must be prepared to examine objectively his own position on such matters and develop for himself a tenable position or philosophy with which he can continue to live.

The University of South Florida, in trying to attain this character, has set up for itself the primary goal of placing “Accent on Learning” as its most important reason for being. Toward that end, the University has these specific objectives:

- To provide the citizens of Florida with an outstanding public institution of higher learning, giving leadership and service in the intellectual, cultural, economic and scientific interests of the state.

- To create a community of scholars dedicated to teamwork in the search for truth, the exchange of ideas and the establishment of high standards of intellectual inquiry and creative activity.

The faculty has been carefully chosen for its training, competence and ability to teach. In an unusual sense it is a team. The faculty has many times shown its outstanding ability to carry on creative work and significant research and to provide opportunities for able students to learn the meaning of, and assist in, such work as part of the process of education.

- To provide opportunity for the development and training of the mind which promotes maturity, objectivity and creativity.

Degree programs of the University are designed to promote the following general aims for all students: (1) the necessary skills in writing, speaking, reading and listening; (2) self-reliance through the ability to think clearly; (3) understanding of oneself and one’s relationship to others; (4) growing convictions based on the search for truth; (5) understanding and appreciation of our cultural, social, scientific and spiritual heritage; (6) intelligent approach to local, national and world problems leading to good citizenship and leadership in life; (7) some practical understanding of another language; (8) professional competence based on high ethical standards; and (9) healthful development of the body.

- To provide a broad cultural and basic educational pattern for all students, together with programs of liberal, pre-professional and professional studies, and to supplement these with opportunities for independent development and work experience.

Recent studies indicate a strong trend in American liberal arts colleges toward the inclusion of more professional preparation in their programs and, conversely, for the professional colleges to include more general and liberal studies in theirs. Thus, the professional and the liberal arts colleges are com-
ing closer together in the effort to provide a continuum of studies which includes the general, the liberal and the professional in the same program. The University of South Florida is attempting this in a way that provides greater unity of knowledge for the student.

For each student, the educational program at USF combines preparation in basic studies with work in the liberal arts and the sciences and with professional studies. Ideally, a student's program will be devoted about one-third to basic studies, one-third to professional studies and one-third to elective and related choices.

### A Look at the Future

The University of South Florida's location in the large and expanding Tampa Bay metropolitan area, coupled with the broad growth and development of Florida in the space age, suggests a future of rapid change and expansion for the University. In every respect, the University of South Florida is a vital part of the state's inevitable growth, and is continuing on its course toward becoming a distinguished university.
ADMISSION

The University of South Florida requires definite ability and competence on the part of students. Those having these abilities and skills and who are seriously interested in earning an education can expect to succeed in college.

The Director of Admissions will admit students who meet the formal requirements of the University for admission and can be expected to do successful academic work. He will suggest other possibilities to those who do not.

The University may refuse admission to a student whose record shows previous misconduct not in the best interest of citizens of the University community.

In accepting students for admission, the University does not discriminate on the basis of race, sex, color, or national origin.

How to Apply

You should request an application indicating whether you need Freshman (no previous college), Transfer, or Graduate application papers. Make your request to:

Office of Admissions
University of South Florida
Tampa, Florida 33620

Students interested in applying for admission to the College of Medicine should obtain application forms from the Office of Student Affairs, College of Medicine.

You are advised to make your request for papers early. Application and all credentials may be submitted as early as 12 months prior to anticipated enrollment, but must be received prior to the deadline in the academic calendar. Applications for which all credentials are not received by the deadline will not be considered for that term. Please note: All applicants must enter their Social Security number on the application. All application forms will be returned to the applicant if they do not include Social Security number and the $15.00 nonrefundable application fee.

All academic records must be mailed to the Office of Admissions, University of South Florida, directly from the appropriate institution (i.e., high school record from high school attended; college record from each college attended; G.E.D. test scores and high school equivalency diploma from appropriate high school or State Department of Education; U.S.A.F.I. scores from Madison, Wisconsin; S.A.T. scores from high school or Educational Testing Service,
Princeton, N.J.). The student has the responsibility of requesting the records to be mailed to the University from each school attended.

A student who is accepted and does not enroll must notify us in writing within 30 days after the original planned date of entry if he wishes his application changed to a future date of entry. Otherwise, new application forms must be completed and the application fee paid again.

Requirements for Admission

FRESHMAN — Graduate of Florida Secondary Schools
1. Official transcript sent directly from secondary school indicating graduation.
2. Favorable recommendation from secondary school.
3. An overall “C” average in academic subjects.
4. A minimum score of 300 on the Florida Twelfth Grade Test.

FRESHMAN—Graduate of Out-of-State Secondary Schools
1. Official transcripts sent directly from secondary school indicating graduation.
2. Favorable recommendation from secondary school.
3. Grades placing them in upper 40 per cent of their graduating class.
4. A minimum total score of 900 on the Scholastic Aptitude Test with no less than 450 on the Verbal portion or score of 21 on the A.C.T.

TRANSFER
1. Official transcript from each institution previously attended.
2. An overall academic average of “C” on all work attempted.
3. Eligible to re-enter institution last attended.
4. Applicant must have completed Student Information Form sent from the last institution attended directly to the Office of Admissions at the University of South Florida.
5. A satisfactory secondary school record and test scores are required for those students who have attempted less than 54 quarter or 36 semester hours of college work. See page 19, EVALUATION OF TRANSFERRED CREDITS (undergraduate).

TRANSIENT
A transient student is one who is permitted to enroll at the University of South Florida for only one term before returning to his parent institution.
1. Statement indicating good standing from the parent institution and their approval of course or courses to be taken.
2. Applicant must have a completed Student Information Form sent from the last institution attended directly to the Office of Admissions at the University of South Florida.

Transfer students should also refer to the section on Community College Relations, page 20.

SPECIAL STUDENT—Non-degree
To serve the academic needs of the Tampa Bay Area, the University has established the Special Student classification. Former USF students are eligi-
ble only if they have completed and earned a degree in the degree program for which they were previously enrolled. Former Non-degree seeking students are eligible only if they wish to remain in the Non-degree status.

Special Students do not make application to the University. Admissions and registration is by means of a Special Student Enrollment Form available from the Office of Records and Registration. Special Students enroll the first 5 class days of the term. Course prerequisites must be met and enrollment is on a space available basis. No more than 20 quarter hours with grades of “C” or better earned in the Special Student category may be applied toward an undergraduate degree and no more than 12 quarter hours with grades of “B” or better in the Special Student category may be applied toward a graduate degree.

Enrollment as a Special Student does not constitute continuing admission to the University. The Special Student Enrollment Form must be completed for each term of enrollment.

GRADUATE—See Graduate Section, Page 65.

READMISSION

1. Any student who has not been enrolled at the University for two quarters immediately preceding the quarter for which he wishes to re-enter will need to secure a special application for students in this category from the Office of Records & Registration (ADM 264). Early submission of this form is requested.

2. Students who were not in attendance the past two terms preceding registration should follow registration instructions in the University Class Schedule for Former Students Returning.

3. However, all former undergraduate students who have completed their baccalaureate degree; all students who have earned a baccalaureate degree since last in attendance at USF; all students who have only enrolled for off-campus Continuing Education courses, Special Summer Sessions, as a Transient Student, or as a Special Student and wish to enter the graduate school for the first time as degree seekers must file Graduate Applications prior to the deadline listed in this catalog. An application fee is required for all students who have enrolled only for off-campus courses and for those who enrolled as Special Students. All students who have completed their baccalaureate degree and wish to return to the University to complete another undergraduate major must file an Undergraduate Application. No application fee is required.

4. All Disqualified Students must petition the Academic Standards Committee for permission to re-enroll at the University of South Florida.

EVENING CLASSES

The admission requirements and achievement levels in the day and evening courses are the same. Any student accepted to the University may enroll in courses offered in the evening which are appropriate to his program.

EVALUATION OF TRANSFERRED CREDITS (Undergraduate)

1. Course evaluations are prepared after an application for admission is submitted, official transcripts are received, and applicant is cleared for admission.

2. Effective January, 1971, work in which a student has earned a grade of “D” or better may be transferred.
3. A transfer student from a junior college may satisfy the General Education requirements of the University of South Florida by completing (before transfer) the general education program prescribed by that institution. Transcripts must certify graduation and the general education requirements as completed.

4. A maximum of 90 quarter hours of junior college work will transfer. Any prior work taken at a four year institution must be included in the 90 hours.

5. Credit will not be awarded for G.E.D. tests, for basic R.O.T.C., military science, nor for courses given credit without a grade.

6. Service school courses will be evaluated with reference to the recommendations of the American Council on Education when official credentials have been presented. Such recommendation, however, is not binding upon the University. No more than 22 quarter hours can be earned by military service credit.

7. A maximum of 45 quarter hours of extension, correspondence, military service and College Level Examination Program credits can be applied toward a degree.

OFFICE OF COMMUNITY COLLEGE RELATIONS

Community junior college students planning to transfer to the University of South Florida should look to the Office of Community College Relations (both before and after transfer) for special assistance. The primary concern of the Office of Community College Relations is to assist community junior college transfer students, and the staff members of those colleges, in better understanding the University of South Florida, its programs, its philosophy, and its procedural operations. The office conversely has as a responsibility, the interpretation of the community junior colleges to the University. The ultimate goal of the Office of Community College Relations is to assure that the University does all possible in attempting to have the transfer student phase into the University "on par" with his counterparts who have been enrolled earlier at the University.

The Office of Community College Relations serves a coordinating function within the University by working with all areas concerned in minimizing transfer problems of students coming to the University of South Florida.

Since the Statewide Articulation Agreement was first endorsed, the University of South Florida has subscribed fully to all of the provisions of this agreement. It is strongly recommended that students transferring from community junior colleges to the University of South Florida complete their Associate in Arts degree. Special details relative to those students who do not plan to complete the Associate in Arts 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 his 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.

COLLEGE LEVEL EXAMINATION PROGRAM

The University of South Florida will grant credit for the general examina-
Admissions

Admissions to the College Level Examination Program if the student scores at or above the 50th percentile of the national norm. See 7, above.

1. A student may not receive both transfer credit and CLEP credit in the same area.
2. The maximum of hours for which a student can obtain credit from extension, correspondence, and USAFI courses, combined with the CLEP, is 45 quarter hours.
3. The student cannot receive credit by way of CLEP if he has already taken courses at an institution of higher learning covering the area of concern.

Foreign Students

For all foreign students, undergraduate and graduate, the following items are required:

1. Completed application must be received by the University of South Florida at least 6 months prior to expected date of enrollment.
2. A $15 nonrefundable fee must be included with the application.
3. A certificate of financial ability.
4. Two personal letters of recommendation.
5. Satisfactory scores on the Test of English as a Foreign Language. The student should request that Educational Testing Service send their scores directly to the Office of Admissions.

Foreign applicants must request all colleges attended to submit directly to the Office of Admissions at the University of South Florida, transcripts of all work attempted, certified and translated in English. For undergraduates the high school record must be included, certifying graduation and date and indicating an average of "C" or better. Graduate applicants must comply, in addition to the above, with requirements listed in the Graduate Section.

Florida Residency

Qualifications for Florida residency are listed on page 24, under "Fees."
REGISTRATION

UNIVERSITY OF SOUTH FLORIDA STUDENTS

Registration will be completed in person by appointment during the regular scheduled registration period. Each quarter, this registration period will conform to the established University calendar published quarterly in the University Class Schedule.

Changes of class registration will be accepted only during the time and day(s) announced in the University Class Schedule.

Any regular University student wishing to simultaneously enroll in evening classes shall register and pay fees in the manner prescribed for regular students attending campus daytime classes.

Payment of Fees. Registration fees are due, by mail or in person, by the close of business on the last day of registration prior to the first day of class in any quarter. Any fees paid after that date must be accompanied by an additional twenty-five dollar ($25.00) penalty payment.

Late Payment of fees, including the penalty payment, will only be accepted during the first five (5) regular class days of any quarter. Fee payments may be made in advance of final complete registration. A student is eligible for a full or partial refund of fees upon withdrawal from the University only within the first five (5) regular class days in any quarter.

No late payment of fees, with or without penalty payment, will be accepted, and no refund of fees will be made to any student after the close of business on the fifth regular class day in a quarter.

Registration will be cancelled for any student who has not paid his fees in full by the close of business on the fifth regular class days in a quarter.

See FEES, next page.

CONTINUING EDUCATION STUDENTS

Those non-degree seeking students registering only for courses off-campus:

1. Application, registration, and payment of fees must be postmarked no later than the deadline announced in the University Class Schedule.

2. Students whose fees are paid by school boards or state or federal grants must individually forward their application by the deadline published in the University Class Schedule. County contact persons should contact the Office of Records and Registration for further procedures.

Regular students who wish to schedule on-campus and continuing education courses simultaneously should follow normal procedures to register for on-campus courses and then use the special Continuing Education Form to schedule off-campus courses.
FEES

The following fee schedule applies to all University of South Florida students with the exception of those in the Bachelor of Independent Studies, Adult Degree Program. For information on the Adult Degree Program fees, see Academic Programs. 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.

A. Initial Application Fee (each application—not refundable) .......... $15.00
B. The following fees must be paid in full for each academic quarter at the time of registration:

\[
\begin{array}{ll}
\text{Florida Resident*} & \text{Non-Florida Resident†} \\
\text{Graduate (per quarter hour)} & $20.00 & $47.00 \\
\text{Undergraduate (per quarter hour)} & $16.00 & $43.00 \\
\text{Graduate} & $240.00 & $590.00 \\
\text{Undergraduate} & $190.00 & $540.00 \\
\end{array}
\]

Other Fees ‡

2. Late Registration Fee (chargeable to any student who fails to register and/or pay within the formal registration period. This fee is also charged when the check is submitted within the time limit but is returned by the bank for any reason.) $25.00
3. Audit Fees (same rate as if registered for credit.)
4. Cooperative Education Program (for training quarter) $40.00

C. Room rent to be paid in accordance with information in Housing Contract. **
FEES

Per Quarter

1. Room rent Quarters I, II, III ................................ $160.00
2. Room rent Quarter IV ....................................... $125.00

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

1. Saga Food Service Per Quarter
   20 meal plan—Monday through Sunday $202.11
   15 meal plan—Monday through Friday $183.80
   12 meal plan—Monday through Sunday $186.06
   10 meal plan—Monday through Friday $173.40
2. Eastern Food Service 20 meal book in 25 cent denominations at $18.95
   per book.

E. College of Medicine

A Florida student enrolled in M.D. program in the College of Medicine will pay a fee of $1,050 per year in installments of $350.00 each to be paid in September, January, and March. A non-Florida student enrolled in the M.D. program in the College of Medicine shall pay a fee of $2,250 a year in installments of $750.00 each to be paid September, January, and March.

* In addition, a service fee of $3.00 per credit hour must be paid for each hour in all courses taken in the Continuing Education Program. (These courses are designated by the "700 series" section number.)

** The prices listed are for the academic year 1971-72 and are subject to change for the academic year 1972-73.

† Tuition is paid by non-Florida residents in addition to the registration fee. Florida residents pay only the registration fee.

‡‡ Items 2 through 4 applicable to both Florida residents and non-Florida residents.

§ State Sales and Use Tax included.

FLORIDA RESIDENCY

A Florida resident, for purposes of admission, expenses and other University classification needs, is one whose parent or guardian (or the applicant if over 21) is a citizen of the United States, or a resident alien, and has resided permanently in the state of Florida for at least 12 months immediately preceding registration at the University. No applicant can claim Florida residence only by virtue of the fact that he or she has attended any school, college, or university in the state for the 12-month period immediately preceding registration. The owning of property in Florida while being physically located in another state does not qualify a person to claim Florida residence.

REFUND OF FEES

Students who find it necessary to withdraw from the University may be permitted to have a refund of fees upon presentation to the University Business Office of an authorization issued by the Office of the Registrar. The issuance of these refunds will be detained for a two-week period immediately following each
official University registration, and the refunds will be made under the following conditions.

1. A full refund will be made for a full-time or part-time student making a complete withdrawal from the University during the “Drop and Add” period in any quarter. There will be a full refund less proper charges per hour for each hour continued by students changing from full-time to part-time during the “Drop and Add” period in any quarter.

2. No fees will be refunded after the end of the “Drop and “Add” period in any quarter except in the following cases:
   a. A student involuntarily called back to duty with the armed forces will be entitled to a refund in the amount of the registration fee less $43.00 for a full-time student. A part-time student will be entitled to a refund in the amount of his registration fees less $2.08 per hour for an undergraduate student and $2.60 per hour for a graduate student.
   b. The death of a student during the term for which enrolled would permit a refund in the amount of the registration fee less $43.00 for a full-time student. A part-time student will be entitled to a refund in the amount of his registration fees less $2.08 per hour for an undergraduate student and $2.60 per hour for a graduate student.
   c. Incapacitating illness of such duration and severity as to preclude successful completion of the academic program for the term for which enrolled would also permit a refund in the amount of the registration fee less $43.00 for a full-time student. A part-time student will be entitled to a refund in the amount of his registration fees less $2.08 per hour for an undergraduate student and $2.60 per hour for a graduate student.
   d. Cancellations would be considered a separate category where the student is considered not registered because of the University’s actions, usually resulting from some pre-existing University regulations.

3. No refund will be made under this policy except upon proper application for the refund through the Office of the Registrar.

4. No part of the student activity fee will be refunded if the student fails to surrender his original (current quarter) “Certification of Fee Payment” card.

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

6. A full refund of out-of-state fees will be made if withdrawal is effected during the “Drop and Add” period in any quarter.

PAYMENT OF ACCOUNTS DUE THE UNIVERSITY

Charges against students for loss or breakage of University equipment, books, fines, and other charges will be required to be paid within ten (10) days of notification. Failure to comply may result in cancellation of the student’s registration and/or the privilege to re-register.

CHECK CASHING SERVICE

The University will accept personal checks for accounts due the University. Each student is urged to make his own financial arrangements through his choice of commercial banks. The University Cashier and the Bookstore will cash personal checks not exceeding $50.00. A service charge of 10 cents is made for each check cashed. All checks returned by the bank must be cleared within 7 days of date of notification to the student. Failure to comply may result in cancellation of the student’s registration.
**VETERANS ADMINISTRATION BENEFITS**

The University of South Florida is approved by the Veterans Administration for the education and training of veterans, servicemen, and dependents of disabled and deceased veterans. Students who expect to receive benefits at the University should contact the nearest VA Regional Office or the office at P.O. Box 1437, St. Petersburg, Florida, 33731, for information concerning eligibility, counseling, and benefits.

New students must submit the Certificate of Eligibility to the Office of Records & Registration before their enrollment may be certified. Students eligible for VA benefits are responsible to pay their own tuition and fees, with the exception of disabled veterans under Vocational Rehabilitation. You should anticipate a delay of one to two months for the monthly checks to begin.

Hours required for full-time benefits for undergraduate students vary each quarter. Degree-seeking graduate students must enroll for 9 quarter hours to receive full-time benefits, with the exception of the summer term. You should consult the class schedule published quarterly for changes in hours required and certification procedures. Co-op students must maintain full-time status while in classroom to avoid termination of benefits unless student has requested the optional plan of receiving no benefits while on training periods. The University and student are responsible to notify the VA of any change in status which affects his rate of pay.

The BIS Program, administered by the Center for Continuing Education, has also been approved by the Veterans Administration. Non-credit courses offered through the Center are approved each time offered on a selected basis.

**SELECTIVE SERVICE SYSTEM**

College students who were enrolled full-time in the 1970-71 academic year will remain eligible for student deferments if they continue to enroll full-time and make satisfactory progress in their programs of study. Students beginning their freshman year of study in June, 1971 or after, will not be considered for student deferments.

The University assists the student by submitting a Student Certificate at the time he is first enrolled full-time and at the beginning of each of his academic years thereafter, to local draft boards, for every male student who has requested reports be sent. All continuing USF students may verify that they are in the Selective Service Report File correctly by checking the File Listing in the Office of Records & Registration. New transfer students who are eligible for student deferments must complete a USF Selective Service Information Request card form at Registration or in the Office of Records & Registration within 10 days from the first day of classes. The University is also required to report to local boards all students in the Selective Service Report File, when he is no longer enrolled (for two consecutive quarters) and when he graduates.

Both undergraduate and graduate students will have induction postponed until the end of term if enrolled full-time at the time Induction Notice is received. An undergraduate student enrolled in his last year of study may have induction postponed until the end of his academic year or until he graduates.

Undergraduate students must enroll for at least 12 quarter hours to be considered full-time. The Selective Service System also requires the successful completion of an average of 45 quarter hours each academic year.
SOCIAL SECURITY BENEFITS

The Social Security Administration requires the University to verify full-time enrollment for students between the ages of 18 and 22 receiving educational benefits under the Social Security Act. Students who expect to receive benefits at this University should contact their local Social Security office, requesting that form SSA 1372A be forwarded to the Office of Records & Registration. Students' full-time enrollment will be certified on this form.

Undergraduate students must enroll and remain enrolled for a minimum of 12 quarter hours to be considered full-time. Graduate students must maintain a minimum of 9 quarter hours to be considered full-time. Benefits cease when student drops below full-time or fails to continue full-time at the beginning of a new term.

Further questions regarding Social Security benefits should be directed to student's local Social Security office.

RAILROAD RETIREMENT ANNUITY AWARD

Undergraduate students eligible for the Railroad Retirement Annuity Award must remain enrolled for a minimum of 12 quarter hours to be considered full-time. Graduate students must remain enrolled for a minimum of 9 quarter hours to be considered full-time. The University notifies the Railroad Retirement Board when the student ceases to be full-time.
STUDENT WELFARE

The University of South Florida is dedicated to the intellectual, social, and moral development of students in order to provide responsible leaders who can work effectively in a democratic society. The university has a concern for the total life of the student as well as for his classroom performance. Diversity of opinion, criticism, and dissent are essential in discharging these responsibilities, and this has been set forth and safeguarded in the Board of Regents' Operating Manual.

As a condition for admission to one of the State Universities of Florida, students agree to abide by the policies of the Board of Regents and by the rules and regulations of the institution. The University has the right and responsibility to determine who shall be admitted to the institution; the conduct or behavior acceptable to the institution; and under what conditions one may continue as a student. Administrative due process and the right of review in all disciplinary hearings are provided by the University.

Academic freedom and free inquiry in the State Universities can be preserved only if protected from outside manipulation and subversion. The universities must be protected from those persons who would disregard normal channels by which grievances may be aired and who would create disturbances on campuses in such a way as to impede or interfere with the educational or orderly operation of the university.

University officials and particularly the Vice President for Student Affairs and his staff are charged with the responsibility of interpreting the policies of the Board of Regents to students and others in the university communities, and with developing positive student personnel programs which further the intellectual, social, and moral development of students.

Office of Student Affairs

The Vice President for Student Affairs, and the staff members in that area of administration, provide leadership and professional services necessary to maintain a campus environment conducive to learning. First, they offer service enabling students to cope effectively with factors of personal and social living that affect academic work: financial aid, health service, individual and group counseling, career planning and placement, standards of conduct and performance, due process in disciplinary action, procedures for redressing grievances, and advice and assistance in time of trouble. Second, they provide programs enabling students to participate effectively in the corporate life of the University: orientation, equal opportunity programs, residence halls, student government, student publications, organizations, activities and events, expressing a variety of special interests.
Financial Aids

The student financial aids program at the University of South Florida is intended to assist qualified students to obtain a university education when they might otherwise lack financial resources. Financial assistance, with the exception of Service Awards, is granted on the basis of financial need, academic promise or attainment, and character.

Scholarships are available, suited to student financial need and academic promise. Registration-Fee Work Scholarships are awarded, which would require about four hours of work on campus per week. University of South Florida Foundation Grant-in-Aid Scholarships and Service Awards are available, if the student makes timely application and is qualified for the award. Information on these and other scholarships is available in the Financial Aids Office.

Scholarship applications are accepted only once each year, and must be filed no later than February 1 for scholarships which will begin with the fall quarter.

National Defense Student Loan applications for the entire academic year and/or first quarter must be filed not later than March 1. Applications for other quarters may be filed at any time; however, availability of funds will be the controlling factor in granting loans after the original deadline date.

National Defense Education Act Student Loans permit entering freshmen, transfer students, and continuing students to borrow up to $5,000, with a maximum of $22 per quarter hour carried each quarter. Repayments begin nine months after the borrower ceases to be a full-time student, at which time the loan draws interest of three percent. Payment must be made within ten years. Part or all of this loan may be cancelled if a student teaches in a public elementary or secondary school, college or university after graduation, or by active duty in the Armed Services of the United States after receipt of the loan. Payment is deferred if the student enters the Peace Corps or Vista.

U.S. Cuban Education Loans are available to Cuban Nationals on the basis of financial need, and who have not attained permanent residency in any state. This program parallels the National Defense Education Act Student Loan qualifications, and the amount which may be borrowed.

Florida State Education Loans permit any undergraduate student who has been a resident of Florida for a minimum of two years, and whose parents have an adjusted income of under $15,000, to borrow an amount, not to exceed $1,200 per academic year on the basis of the financial need analysis of the student. Repayments begin six months after the borrower ceases to be a full-time student, at which time the loan begins drawing four percent interest. Repayment of the loan must be completed within five years.

The Law Enforcement Education Program (LEEP) has been established under the Omnibus Crime Control and Safe Streets Act of 1968. It is administered by the Justice Department for the purpose of providing financial assistance to allow in-service law enforcement officers to continue their education at the college and university level, and to provide funds to encourage young men and women to criminal justice careers after they have achieved college degrees. Assistance is authorized in the form of grants and loans, up to a maximum of $1,800 for the academic year.

Additional long-term loans may be granted, subject to the availability of funds, from the following programs: USF Student Loans, USF Special Opportunity Loans, the Henry & J. Edward Rosenzvaig Memorial Fund of the National Council of Jewish Women, the Shane Fund, the Marty Starns Me-
morial Loan Fund, Sertoma Club of Tampa Loan Fund, James J. Love Memorial Scholarship Loan Fund, Selby Foundation Scholarship Loans, Pan-American Women's Club Loans, and B'nai-B'rith Women of Tampa Loan Fund.

Long-term loans may be available from home-town participating banks and Savings and Loan Associations through the Federally Insured Student Loan Program. Loans are not payable until the student graduates, or leaves the University. More information on this Program is available in the Office of Financial Aids.

Short-term loans are available from the Louise Ramey Fund and the American Institute of Mining, Metallurgical and Petroleum Engineers, Inc. Junior-Senior Short-Term Loan Fund. Short-term loans are made available to foreign students through the Ann and Henry Jander Memorial Loan Fund.

Applications for scholarships and/or student loans should be made to the Director of Financial Aids.

Student Employment under the College Work-Study Program, administered by the Office of Education, Department of Health, Education and Welfare, is available for students from families meeting the income requirement for eligibility. Certification for eligibility must be received from the Office of Financial Aids.

Students with a minimum of twenty-four quarter hours of academic credit and a grade point average of 2.0 or better may apply for a Cooperative Education Team. Further information on the Cooperative Education Program is given on page 57.

Graduate assistantships, scholarships, and fellowships: Students should inquire directly to the head of the department in which they intend to major.

Children of Deceased Veterans should apply to: Mr. Melvin T. Dixon, Florida Department of Veteran Affairs, P. O. Box 1437, St. Petersburg, Fla. 33731.

The Florida Council for the Blind, P. O. Box 1229, Tampa, Florida 33601, provides financial help for blind students.

For the National Scholarship Service and Fund for Negro Students, applications should be made directly to this Fund: Address — 6 East 82nd St., New York, New York 10028.

The Vocational Rehabilitation Division, State Department of Education, Tallahassee, Florida, provides limited assistance to students who are handicapped.

Additional information on financial aid is available in the Office of Financial Aids.

In the award of financial assistance by the University, no student is discriminated against because of race, color, or national origin.

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**Student Health Service**

Comprehensive health care is provided for full-time students through the University Student Health Service.

A 14-bed infirmary is available for students with illnesses precluding class attendance. A walk-in clinic and medical laboratory are maintained for outpatient treatment.

University physicians have office hours by appointment, except weekends. Registered nurses are on duty 24 hours a day, 7 days a week in the
Health Center and emergency care is available continuously, including nights and weekends.

**Counseling Center for Human Development**

The Counseling Center, located in the Andros Classroom Building, provides services for students desiring professional assistance in the areas of reading-study skills, vocational guidance, personal counseling, psychiatric consultation, tutoring, speech and hearing, and Vocational Rehabilitation. These services are available to assist students in evaluating and remediating problems which interfere with efficient learning and satisfying participation in campus life.

The Reading-Study Skills Service provides diagnosis and evaluation of reading skills and study habits. Two approaches are offered: (1) non-credit classroom courses are offered which include extensive instruction and practice in word attack, vocabulary, and comprehension skills; (2) an Independent Study non-credit course is available with the emphasis on the unique individual need. Reading-Study Skills Laboratory Service 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 Speech and Hearing Service, located in the Social Science Building, offers diagnostic, evaluative, and therapeutic sessions for students whose speech and hearing interferes with effective communication, or may not meet later academic or vocational requirements. Speech and hearing screening is required for all new entering students. Individual therapy is available for students who are referred or feel a need for specific speech improvement.

Counseling Services are available in the Center to any student who wants personal or career counseling. Personal counseling is aimed at helping people understand themselves and achieve personal potentials. Career counseling utilizes interviews, diagnostic tests, and a career library to help the student reach his academic and career goals.

Students desiring special assistance in their courses may apply to the Counseling Center for tutoring provided by other students in various subjects and courses. Fees are charged by the tutors according to standard rates established by the Counseling Center staff.

Psychiatric Services aid the student when medication, hospitalization, or psychiatric evaluation is needed. Evaluations by the Counseling or Psychiatric Services in conjunction with administrative decisions of Student Affairs, Housing and Food Services, academic colleges or departments, and individual faculty will be rendered only at the request of the student and with a written "Release for Recommendation" signed by the student.

Vocational Rehabilitation is a State of Florida service located in the Counseling Center to facilitate the University students' utilization of aid available.

Application for any of these services of the Counseling Center may be made by any student at any time and as often as desired. Center staff and faculty limitations will restrict servicing of new applications to emergencies during peak periods.
Career Planning and Placement Center

The purpose of the Career Planning and Placement Center division of Student Affairs is to assist students and alumni in realizing their career objectives. This office, together with the Cooperative Education Program and the Financial Aids Office, attempts to insure that economic considerations will not impede the progress of any student who is seriously in pursuit of a college education.

Every effort is made to insure part-time placement for undergraduate and graduate students who express a need for employment. Students may register for part-time placement both on and off campus, as well as for career and/or non-career related seasonal employment. Up-to-date job listings are maintained during the year to assist the student seeking part-time employment.

One of the recognized goals of a college education is to maximize career satisfaction, and the Career Planning and Placement Center exists to facilitate the achievement of this end. The Career Planning Library provides the student with materials on vocational guidance, career opportunities, and employers. In addition, information on graduate schools is maintained.

Graduating students are encouraged to register with Career Planning and Placement Center early in their graduating year. This enables them to interview on campus with recruiters from educational systems, businesses, industries, and governmental agencies throughout the country. Every registrant receives 25 copies of his personal resume. The above services are also available to alumni desiring career relocations.

Housing

The housing program of the University is part of the total educational plan. Functional, pleasant living conditions contribute to a student's scholarship, habits, and attitudes. The residence hall program emphasizes attractive surroundings, opportunity for group activity, self-government, and counseling services of professional people. Provision of adequate living conditions is a responsibility shared by students, parents, and the University.

Regularly enrolled students paying the registration fee for full-time attendance are eligible to live in University residence halls. An application for a room in University Residence Halls is sent with the Official Acceptance notification. Housing assignments are made without discrimination as to race, color, or national origin.

RESIDENCE HALLS

Accommodations for students are available in the University's modern residence halls. Residences are completely air conditioned and provide for the living, educational, social, and personal needs of students.

In general, rooms are furnished with beds, dressers, mirrors, desks, lamps, drapes, and chairs. Linen service is provided. In each living unit, composed of between 40 and 50 students, a Resident Assistant is available to assist students. A Resident Instructor for each hall is available for personal and academic counseling.

The University's residence halls are grouped in units called complexes. The first completed complex—Argos—includes three residence halls grouped around Argos Center, which serves as the living and dining rooms of these halls. In addition to the lounges and cafeteria, Argos Center has a recreation room...
and conference rooms. The students residing in these halls live in study-sleeping rooms. An outdoor swimming pool in this complex is also available for student use.

Andros Complex—consisting of nine residence halls—provides a different type of living arrangement for students. Suites are designed to accommodate eight students—two students sharing a bedroom, four students sharing a study room, and eight students sharing a bath. In addition, each living unit has its own lounge. Andros Center is also considered the living and dining rooms of the students residing in this complex, and has most of the same facilities as the Argos Center.

**OFF-CAMPUS HOUSING**

The Housing Office maintains a list of off-campus housing. Listings are accepted only from householders and landlords that 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 quarter arrangements may be made during the summer.

**FOOD SERVICE**

A variety of food plans are offered through two food service contractors. Several small dining rooms may be reserved by committees or special groups wishing to take their trays to a private place for luncheon or dinner meetings.

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**University Center**

The University Center serves as the hub of campus life outside of 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's facilities and services provide for personal and social needs. It has conference and activity areas, lounges, a cafeteria, dining rooms, a snack bar, student organization offices, craft and photography areas, a ballroom, book lockers, lounges and television listening, billiards, table tennis, table games, the University Campus Shop and Bookstore, Student Health Services, a magazine browsing library, campus lost and found, and various other services. Food Service, Bookstore and Health Service operations are coordinated through their respective University administrative areas, while the other facilities and services are coordinated by the University Center Director's office.

In addition to providing services and facilities, the University Center also functions as a program. The University Center Program Council is comprised of the chairmen of 9 student committees and four elected officers. The Program Council provides a social, cultural and recreational program under the guidance of professional staff advisers to make leisure time activities more meaningful. The overall program is designed to supply additional experience
by providing opportunities for self-directed activities and the attainment of social skills and knowledge.

The Center's program contributes to achievement of the educational goals of the University by providing a laboratory for experience in citizenship—a community center where all may have a part in the direction of community enterprises. Academic and non-academic interests are related so that students' development may be well-rounded and complete. Enhancement of social skills and emotional development of the individual are also goals of the program.

The University Center Program Council has as its objective to provide a balanced program of activities reflecting the special social and recreational needs of all students' out-of-class interests. All activities are planned, arranged, and directed by student committees. A student may volunteer to serve on such committees as dance, coffee house, feature entertainment, festival, inter-comm, intra-service, personnel, podium and visual arts committees.

Bookstores

TEXTBOOK CENTER

Textbooks are located in the Textbook Center adjacent to 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 for art, engineering, and science classes, as well as many hobby and general purpose items. Oil or water base paint, brushes, art paper, slide rules, graph paper, drafting supplies, dissecting kits and lab notebooks are among the many items in this department.

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

The Record and Headshop area is devoted to LP record albums, tapes, and cassettes, as well as scented candles, incense, and many other novelty items.

The Lobby Shop stocks a large assortment of items which include candy, cigarettes, tobacco products, health and beauty aids, and a complete Health Food Store.

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 stocks approximately 13,000 different titles, including the very latest in fiction, non-fiction, reference, study aids, and children's books.

Many helpful services are provided by the Bookstore. Among these are typing service, film developing, special order service, check cashing ($50.00 limit), airline youth fare cards, fresh flower gift service, and magazine subscriptions at student rates.
Vehicles

AUTOMOBILES

Students may use automobiles on campus. Parking facilities are provided for resident and commuter students. All automobiles used on campus must be registered with the Security Department and the Traffic Regulations adhered to. There is a nominal charge for vehicle registrations.

BICYCLES

Students may use bicycles on campus. Parking blocks, bicycle racks, and designated areas in parking lots are available to park bicycles. All bicycles used on campus must be registered with the Security Department and the Traffic Regulations adhered to.

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 the most frequently desired kinds of activities.

DANCE, MUSIC, AND DRAMA CLUBS

The excellent program in the Fine Arts and the facilities of the Fine Arts-Humanities Building and the Theatre and the Theatre Center have attracted students to various student interest groups. These student organizations—USF Dance Club for those interested in dance, Bay Players for those interested in Theatre, and Phi Mu Alpha, Sigma Alpha Iota, and SMENC for those interested in music—welcome all students to participate. Students are also welcome to join such academic units as the University Orchestra, the University Concert Band, and the University Community Chorus (see Music course descriptions); and Theatre USF and Experimental Theatre (see Theatre Arts course descriptions).

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 hearing the best music performed. The Exhibition Series provides unusual opportunities to view many varied and significant exhibitions annually in the University's three galleries. These and other programs conducted by the Florida Center for the Arts significantly contribute to the education of students and the general vitality of the campus.

In addition, the Division 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 Coordinator of Events, Florida Center for the Arts, USF.
STUDENT PUBLICATIONS

The University has encouraged and is developing a growing program of campus communication through various publications. These publications are all-University in approach and coverage. They are staffed by students under the general supervision of the Office of Campus Publications.

An 8-column campus newspaper, The Oracle, is published weekly during the school year. Containing 8 to 16 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.

A University yearbook, The Aegean, is produced each spring. All students are eligible to work on this publication and gain much valuable experience in photography, layout, editing, and business techniques.

A campus literary magazine, South Florida Review, is produced annually. While the magazine is sponsored by the Office of Campus Publications, anyone at the University may submit manuscripts, photographs, or drawings for consideration.

Interested students are invited to apply for staff positions on any campus publication.

FRATERNITIES AND SORORITIES

There are currently fifteen national fraternities and nine national sororities functioning on campus. They carry out a program of social, educational, service, and recreational activities for their members. Membership in these organizations is open to any student, by invitation only. Their programs are coordinated through the Interfraternity Council and the Panhellenic Council with the advice of faculty and staff members.

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. (The center is an ecumenical campus ministry of the following denominations: Methodist, Presbyterian, Lutheran, and United Church of Christ). The Roman Catholic Center joined the others in the fall of 1967.

Student religious organizations active on campus include Areopagus, the Baha'i Club, Baptist Student Union, Bhahaita Yoga Club, Campus Crusade for Christ, Catholic Student Organization, Chi Alpha, Christian Science Organization, Independent Christian Church Fellowship, Jewish Student Union, Lutheran Student Organization, Student Vestry of the Episcopal Church, the University Religious Council and the University Chapel Fellowship.

SERVICE AND HONORARY

Alpha Phi Omega (men's national service fraternity), Athenaeum (women's honorary), Beta Gamma Sigma, Circle K, Collegiate Civinettes, Ethos, Gamma Theta Upsilon (geography honorary), Intensive Tutorial, Phi Kappa Phi honor society, Kappa Delta Pi (educational honorary), Omicron Delta Kappa (men's leadership honorary), Phi Alpha Theta (history honorary), Pi Mu Epsilon (mathematics honorary), Pi Sigma Epsilon (marketing honorary), Psi Chi (psychology honorary), Society of Physics, Tau Beta Phi (engineering hono-
ary), Themis (freshman and sophomore honorary), University Community Legal Aid, University Volunteer Services Coordinating Committee provide associations for leadership and University service experience.

SPECIAL INTEREST ORGANIZATIONS

Students have organized and continue to organize clubs covering a broad range of special and academic interests. Membership is usually open to anyone having an interest in the club's activities. Clubs active at present include A.I.E.S.E.C. of USF, Afro-American Society, USF Amateur Radio Club, Campus Coalition, Campus Independent Alliance, Chess Club, Classical League, Computer Club, Cycle Riders Union, Environment '70, Farmworkers Friends Committee, Film Forum, German Band, Iranian Club, Pacifist Action Council, USF Parapsychology Club, Political Union, Radical Action Coalition, Socialist Union, Sociocybermeering, Students International Meditation Society, Students for McGovern, Student Mobilization Committee, Veterans Club, Whole Earth Cult, Youth International Party, Young Democrats, Young Republicans, Young Socialists for Jenness and Pully, and Zero Population Growth.

Academic Organizations


Sports Clubs


COUNCIL AND SPECIAL SERVICE ORGANIZATIONS

In addition to the organizations mentioned above, a number of groups provide programs, information, and governmental experience for the students at the University. These include the Aegean (yearbook); College of Education Council, Cooperative Education Student Council; Fine Arts College Council; Language-Literature College Council; Management Student Advisory Council; Natural Science College Council; Off-Campus Term Student Advisory Council; Interfraternity Council; The Oracle (campus newspaper); Panhellenic Council; Residence Hall Centers; Senior Class; Social Science College Council; Sports Club Council; Student Advisory Board College of Business; Student Association; Student Council for Exceptional Children; University Center Program Council; University Religious Council; World Affairs Council; and the Management Student Advisory Council.

PROFESSIONAL FRATERNITIES

American Society of Personnel Administrators, Business Women, Delta
Sigma Pi, Phi Beta Lambda (business), Phi Mu Alpha, Pi Sigma Epsilon (marketing), Sigma Alpha Iota (music).

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 for men and women, Sports Clubs, and other recreation 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 will 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, table tennis, bowling and archery, as well as the team sports of touch football, basketball, soccer, volleyball, and softball. Competition is scheduled through fraternal societies, residence halls, and independent divisions. Team and individual 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 adviser 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: fencing, gymnastics, judo, karate, sailing, sports car, water skiing, and weight lifting.

The Special Events Program is geared to provide the University community with a variety of informal recreational activities. Some of the activities are: open tournaments, trips to special athletic events, splash parties, picnics, camping, boating, coed activities, and other special project activities related to the development of campus recreation.

Intercollegiate Athletics

The University of South Florida fields intercollegiate teams in baseball, basketball, golf, soccer, swimming, and tennis. South Florida is a member of the National Collegiate Athletic Association and has sent several teams each year to the national tournaments. Schedules are arranged to include quality competition which reflects the high standards of the University. Women’s athletics are encouraged and held to the same rules that apply to men’s athletics.
Student Government

All regularly enrolled students carrying seven credits or more per term are voting members of the Student Government of the University of South Florida. They elect the college councils, the Student Government officers and Legislature, and the student representatives to the University Senate. Student Government is the agency representing student interests in plans, programs, policies and procedures at the University, and securing student representation in University governance. The Student Government office also helps students deal with special problems in areas such as off-campus housing, draft status, veterans services, and referral for legal assistance.

Orientation and Enrollment Program

At the beginning of each quarter, prior to the beginning of classes, all new students are expected to participate in the Orientation and Enrollment program of the University. This program is designed to help new students become acquainted with the university procedures and regulations and to learn of the University's expectations of its students. Those sessions which are information-gathering are necessary for enrollment, and those that are information-giving are considered the orientation aspect of the program.

Standards and Discipline

Just as the University tries to maintain high standards of academic performance, its members 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 of academic and personal freedom in the University.
The University may deny admission or refuse continued enrollment to students whose actions are contrary to the purposes of the University, or impair the welfare and freedoms of other members of the University.

Standards of personal conduct are published in a separate handbook provided to students at the beginning of each term. Disciplinary procedures followed when a student fails to exercise his responsibility adequately or commits some offense against University standards, local, state or federal law, provide the safeguards of due process customarily enjoyed by American citizens. These include a written description of the offense, participation in discussion of the matter and presentation of information in one's own behalf, the right to seek counsel in one's own best interest, and the right of appeal. These procedures are also described in the handbook.

Self-discipline and sensitivity to the rights and interests of others are the principal elements of University discipline. Students are entitled to seek advice on any matter of judgment, conduct or human relations that may concern them, and to participate in the development of standards of conduct supporting their interest in the purposes of the University.

Many students have asked for advice on standards of dress and personal appearance. Campus dress is expected to be appropriate to the activity in which the individual is engaged. The Cooperative Education Program provides for its members a more detailed set of standards of dress and personal appearance reflecting the interests of off-campus employers.

**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 be given by a member of the staff of the Office of Student Affairs, within the week. Students who do not wish to identify themselves or to provide local address will find the reply published in the earliest possible edition of *The Oracle*. 
ACADEMIC POLICIES
AND PROCEDURES

The University is concerned that each student make reasonable progress toward his educational goal, and will aid each student through guidance and faculty advising. Whenever this progress is hindered, blocked or interrupted, the University will, through additional guidance, special counseling or restrictions on the student's activities, aid the student to resume satisfactory advancement. He may be required to leave the University for a period sufficient to gain adequate maturity and motivation.

To be in satisfactory academic standing at the University a student must be properly admitted and be matriculated for a degree or have qualified as a special student and normally hold a cumulative grade point ratio of 2.0. The precise averages for good standing are described below. Falling below these points should suggest to the student that he must change his pattern of work to restore himself to a satisfactory status.

Any student is not in good standing whenever his cumulative grade point ratio falls below 1.5 and his attempted hours are less than 45, or below 1.7 when his attempted hours are between 45 and 89, or below 2.0 when he has attempted more than 89 credit hours. Whenever a student falls into this category he will be placed on Academic Warning status and a notification to this effect will be sent to him and his permanent record will be posted accordingly. For a complete description of the academic warning rules, see next page. The student will be required to meet with his faculty adviser for additional assistance in identifying and correcting his difficulties.

A transfer student who was not in good standing at his prior institution but who for special reasons has been admitted to the University will be placed immediately on Academic Warning status for a trial period. Students entering the University immediately after earning the A.A. degree from a community college are admitted academic record clear.

All students who do not raise their grade point ratio to a level of good standing within the quarter in residence after being placed on Academic Warning shall be placed on Final Academic Warning.

Whenever a student is placed on Final Academic Warning, a notification of this will be sent to the student's parents or guardian unless the student is 21 years of age or older and is living independently of his parent or guardian. The student is required to meet with his faculty adviser for additional assistance, and must forego holding any executive or committee office in any student or campus organization, and forego participation in any student activity or organization which represents the University. The permanent academic record of the student's progress will show that he was placed on Final Academic Warning; and he must earn at least a 2.0 average, regardless of credit hours attempted, during the next quarter in residence. Failure to do so implies that the student has disqualified
himself from continuous attendance at the University and that he must wait at
least one full quarter before becoming eligible to be considered by the Academic
Standards Committee for readmission to the University. Any student who with­
draws from the University while on Final Academic Warning must petition and
secure approval of the Academic Standards Committee to re-enter the Univer­
sity.

The Academic Standards Committee meets regularly to review petitions
submitted by students to waive certain academic regulations. Students must
petition and secure approval of the Committee to return to the University after
having been disqualified from further immediate attendance or for reasons per­
taining to admission, registration or other academic policies and procedures.

ACADEMIC WARNING STATUS—DISQUALIFICATION AND READMISSION
An undergraduate student is not in good standing whenever his cumulative
Grade Point Ratio falls—

Below 1.500 and his attempted quarter hours are less than 45;
Below 1.700 and his attempted quarter hours are between 45 and 89.

Whenever a student falls into one of the above categories he will be placed
on Academic Warning. All students on Academic Warning who do not raise their
cumulative Grade Point Ratio to a level of good standing, as indicated above,
within the term enrolled after being placed on Academic Warning will be
placed on Final Academic Warning.

Below 2.000 and his attempted quarter hours are more than 89.

Whenever a student falls into the above category he will be placed on Final
Academic Warning. A student on Final Academic Warning must earn at least a
2.000 average on the next 12 quarter hours of enrollment. Failure to do so will
disqualify the student from continued attendance at the University of South Flori­
da. If a student withdraws while on Final Academic Warning, he must petition
and secure approval of the Academic Standards Committee for re-entry.

Below 2.000 and his attempted quarter hours are more than 135.

A student who fails to have a 2.000 cumulative Grade Point Ratio after
attempting 135 quarter hours is automatically disqualified. A disqualified student
must petition and secure approval of the Academic Standards Committee before
readmission. This rule overrides all others. Normally, one full quarter must pass
before such a petition will be considered. However, readmission should not be
considered automatic. In rare and exceptional cases a disqualified student may
petition the Academic Standards Committee for earlier readmission when it can
be clearly demonstrated that circumstances beyond the student’s control account­
ed for his academic problems.

Any student who is readmitted directly to the University following Dis­
qualification will be placed immediately on a Final Academic Warning status.
A disqualified student seeking to gain readmission must apply to the Aca­
demic Standards Committee through the Office of the Registrar.
If the student attends another college or university during this intervening
period, he will be classified as a transfer student and his admission will be based
on his total educational record.

Information for graduate students is shown on page 68.

GRADES

The University of South Florida maintains a five-letter grading system. While
pluses and minuses may be used for computation of grades or other purposes, no pluses or minuses will be recorded on students’ permanent records. The five letters are:

- A—Superior performance
- B—Excellent performance
- C—Average performance
- D—Below average performance, but passing
- F—Failure

In addition, the following grades are given as explained below:

- S—Satisfactory
- U—Unsatisfactory
- W—Withdrawal from course without penalty
- X—Incomplete
- X—An “X” grade may be used for any authorized failure to meet the requirements of a course. Until removed, the “X” is computed in the grade point ratio as “F” for undergraduate students. For graduate students, there is no computation for an “X” grade. The time limit for removing the “X” grade is set by the instructor in conjunction with the University Registrar.

- W—A “W” grade indicates administrative approved withdrawal without penalty from the course or courses.

**S-U GRADE SYSTEM**

Certain courses have been designated by the University as S-U courses. The “S” and “U” grades are used to indicate the student’s final grade. These S-U courses are identified each quarter in the University Class Schedule. No grading system option is available to students or faculty in these courses.

Beginning Quarter I, 1970, the university initiated on a trial basis a Satisfactory-Unsatisfactory grading system that would allow students to enroll in many other courses utilizing the S-U grading system. Participation in this system is at the discretion of the college, department or individual (student or faculty). It is the responsibility of the college to notify students during the first class session if the course may be taken on an S-U basis. It is the responsibility of the student to secure approval from the instructor to take the course on an S-U basis.

A student may elect to take one course per term with the maximum number of total hours not to exceed 15 quarter hours on the optional S-U basis. The S-U courses required for graduation are not part of this quota.

S-U grades do not affect the student’s Grade Point Ratio since no grade points are assigned to either an “S” or “U” grade. However, the student will receive quarter hours credit for the course toward his degree if an “S” grade is attained.

**GRADE POINT RATIO**

The University has a system of grade points used in computing grade point ratios. (A=4 grade points, B=3, C=2, D=1, F=0.) Grade point ratios are computed by multiplying the number of credits assigned to each course by the point value of the grade given. The total of the credit points for all courses taken divided by the total number of quarter hours attempted equals the grade point ratio. For example, a student attempting five three-credit courses who earned two A’s, two B’s, and one F, would have a grade point ratio of 2.800.
If a student repeats a course for any reason, his grade point ratio will include each grade received. For example, if a three-hour course is repeated, it is computed as six quarter hours attempted.

**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, graduate, nor receive a transcript. Settlement of financial accounts must be made at the University Cashier’s Office.

The application of Academic Warning status, Final Academic Warning status, academic disqualification and Pending is the responsibility of the Director of Records & Registration. He will work closely with other University officials and faculty advisers in these matters.

Students having questions or problems about these matters should go to either their adviser, the Office of Records & Registration or the dean of the college in which they are enrolled.

Each student placed on Pending should determine from the Office of Records & Registration which office placed him on Pending and clear the pending obligation with that office.

**ADDS**

After a student has completed his registration on the date assigned to him, he may add courses without a fee during the time designated as the "change period" at registration. The adding of courses after the "change period" is not permitted.

**AUDITS**

If a student wishes to audit a course, he must obtain written permission from the instructor of the course and section in which he wishes to enroll. Audit forms must be obtained from the Registrar’s Office and completed prior to registration. The student must also contact and consult with the instructor concerning just what is expected of an audit in his class. If permission is granted, the audit forms must be presented to the Registration Approval Clerk after a regular class and section card has been obtained. This will insure the student a place in the class even though no credit will be given. The student must pay the regular registration fee for audit courses.

**REGISTRATION CANCELLATION BEFORE FIRST CLASS DAY**

If, after completing his registration, a student wishes to cancel it, he may do so by completing a Withdrawal Form in the Registrar’s Office, and will receive a complete refund of registration fees. These forms, if mailed, must be postmarked before midnight of the day before classes start or delivered to the Registrar’s Office in person by the same deadline.

**DROPS**

For the first six weeks of any term a student may drop a course or courses without penalty (he will receive a grade of "W") by completing and turning in a "DROP" form at the Office of Records & Registration. Any course drop after the first six weeks of classes will result in a grade of "F".

**WITHDRAWALS**

Until four weeks before the last day of the term any student may withdraw from the University without penalty. After that date grades of "F" will automatically be assigned for all course work. If the student is on Conditional Regis-
tration or Final Academic Warning and withdraws from the University, it will be necessary for him to petition and secure the approval of the Academic Standards Committee before being readmitted.

Following a second withdrawal from the University within four consecutive quarters, there will be posted on the student's record "disqualified—two withdrawals."

CLASS STANDING

A student's class is determined by the number of credits he has earned without relation to his grade point ratio:

- 0 Special Student/Unclassified
- 1 Freshman 0 through 44 quarter hours passed
- 2 Sophomore 45 through 89 quarter hours passed
- 3 Junior 90 through 134 quarter hours passed
- 4 Senior 135 or more quarter hours passed, however no baccalaureate degree earned here or elsewhere
- 5 Baccalaureate degree holder working on a second undergraduate major or taking courses for enrichment or certification.
- 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.

DOUBLE MAJOR

Students may elect to graduate with two majors. In that event, the student must meet all requirements of each major separately. He must apply independently and be assigned an adviser in each discipline. He must be certified for graduation by the appropriate deans.

CHANGE OF MAJOR

Any student in one of the Degree granting Colleges who wishes to change his major must obtain the Change of Major form in the Registrar's Office. This form must be signed by the student's adviser, the dean of the former major, and the dean of the new major. A copy of the completed Change of Major form must be returned to the Office of Records & Registration.

APPLICATION FOR GRADUATION

Each student who plans to complete his graduation requirements by the end of a term must complete the Application for Graduation within fifteen class days of the beginning of the term he is graduating in. The application is available at, and after completion must be returned to, the Office of Records & Registration.

Graduation Requirements – Baccalaureate Degree

While each college sets specific requirements for graduation, the basic University requirements must be met by every student upon whom a degree is conferred. These basic requirements specify that a student obtain at least 180 quarter hours of credit with at least a "C" average for all University of South Florida courses attempted in order to be eligible for graduation. The hours for a course which has been repeated may be counted only once toward
this minimum 180 quarter hours of credit. At least 60 of his quarter hours must be for upper division level work (courses numbered 300 or above).

In addition to specific requirements of their major and College, candidates for Graduation must also pass The Senior Seminar (CBS 401) and satisfy the University General Education Requirements (see page 47). Candidates must be recommended for graduation by the dean of the College granting their degree and must have completed at least the last 45 hours of their undergraduate credit in on-campus courses after having been admitted to the degree-granting College.

Approved exchange program students may take courses off-campus which will be considered as on-campus courses. Cooperative Education students, while on their training periods, will have any work taken at other institutions (approval having been given by USF advisers) counted as residence work.

If changes are made in major or graduation requirements during the time a student is enrolled in the University, the student has the choice of graduating under either the old or the new requirements.

While every effort will be made to give each student appropriate advice in meeting major and graduation requirements, the final responsibility for meeting these rests with the student. He should study the catalog carefully and seek advice when in doubt. In any case, he should check with his dean when he has reached 135 quarter hours to make sure that his program plans are complete.

Specific requirements of the several colleges are listed under their respective sections.

SECOND UNDERGRADUATE MAJOR

Once a student receives a specific undergraduate degree at the University of South Florida, he cannot receive a second one. However, he may apply for a second major. After acceptance by the appropriate college or division and proof of completion his "permanent academic record" will be posted accordingly.

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

GRADUATION WITH HONORS

Each student graduating with a baccalaureate degree from the University with a grade point ratio earned at USF of 3.5 or higher will receive a special notation on his diploma indicating that he has been graduated with honors.

In addition to the above, transfer students must have a grade point ratio when combined with previously attempted college work of 3.5 or above.

The Associate of Arts Degree

Students who reach 90 quarter hours while in residence at the University of South Florida with a minimum grade point average of 2.0 based on work attempted here and who have satisfied the General Education requirements of the University may apply for the Associate of Arts degree. In order to qualify, a student must complete a minimum of 30 hours in residence at the University immediately prior to the attainment of 90 hours and must apply before he accumulates 135 credits.
Application for the A.A. degree is obtained in the Registrar’s office and must be completed prior to the degree application deadline date. The awarding of the Associate of Arts degree does not alter the calculation of grade point average nor does it interrupt in any way the accumulation of the student record.

General Education Requirements

The University of South Florida provides that a part of a formal university education should be common to all graduates. The General Education requirements at the University are established by the General Education Council and courses for general education are offered by the several colleges.

General Education requirements may be satisfied by the completion of six out of the following eight areas over the four-year period:

<table>
<thead>
<tr>
<th>AREA</th>
<th>COURSES OFFERED</th>
<th>NUMBER REQUIRED</th>
<th>TOTAL CREDITS REQUIRED</th>
<th>MUST BE TAKEN IN NUMERICAL SEQUENCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman English</td>
<td>CBS 101, 102</td>
<td>2</td>
<td>8</td>
<td>yes</td>
</tr>
<tr>
<td>(Required of all students)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Behavioral Science</td>
<td>CBS 201, 202, 203</td>
<td>3</td>
<td>9</td>
<td>yes</td>
</tr>
<tr>
<td>Functional Math</td>
<td>CBS 109, 110</td>
<td>2</td>
<td>10</td>
<td>yes</td>
</tr>
<tr>
<td>Modern Languages</td>
<td>See Page 288</td>
<td>2</td>
<td>7, 8, 9, or 10</td>
<td>yes</td>
</tr>
<tr>
<td>Biological Science</td>
<td>CBS 205, 255, 206</td>
<td>2</td>
<td>9 or 10</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td>256, 207, 257</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Science</td>
<td>CBS 208, 209, 210</td>
<td>3</td>
<td>9</td>
<td>yes</td>
</tr>
<tr>
<td>*American Idea</td>
<td>CBS 301, 302</td>
<td>2</td>
<td>9</td>
<td>yes</td>
</tr>
<tr>
<td>*Humanities</td>
<td>CBS 308 and 315, 316, 317</td>
<td>2</td>
<td>9 or 10</td>
<td>no</td>
</tr>
</tbody>
</table>

*Note: Freshman English must be completed before these areas are taken.

Some major areas require the completion of particular General Education courses. Engineering, Business and Elementary Education are three such areas. Students should therefore check the catalog for their own areas of interest to determine what is required in their own situations.

In Modern Languages the student has a selection from more than one language (a year of Latin or Ancient Greek may be substituted for a functional modern language course); but only one language can be used to satisfy basic studies requirements.

Community College Transfer students with the A.A. degree whose institutions have certified General Education requirements met are considered to have satisfied the General Education requirements of the University.

Ordinarily a student would seek to complete his General Education courses by the close of the junior year. It is recommended that the “300” level General Education courses, American Idea and Humanities, be scheduled in the junior year. All students must register for CBS 401, Senior Seminar, during their senior year.
## REQUIREMENTS FOR WAIVING COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Prefix and Number</th>
<th>On Basis of Past Experience</th>
<th>On Basis of Other Courses to be Taken at USF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman English</td>
<td>CBS 101-102</td>
<td>No Waiver</td>
<td>No Waiver</td>
</tr>
<tr>
<td>Behavioral Science</td>
<td>CBS 201-202-203</td>
<td>Evidence of competence acquired elsewhere. See course chairman.</td>
<td>No Waiver</td>
</tr>
<tr>
<td>Biological Science</td>
<td>BS 205-206-207</td>
<td>Minimum of 3 years in high school, including Biology, Chemistry, and one additional unit other than General Science.</td>
<td>Pass Biology 201, 202, and 203 with a minimum &quot;C&quot; average.</td>
</tr>
<tr>
<td>Physical Science</td>
<td>CBS 208-209-210</td>
<td>Minimum of 3 years in high school including Chemistry, Physics, and one additional unit other than General Science.</td>
<td>Pass any 2 of the following 4 sequences with a minimum “C” average:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Chemistry 211-212-213</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Physics 301-302-303-304-305-306, or 201-202-203-204-205-206</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Geology 201-301</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Astronomy 301-302</td>
</tr>
<tr>
<td>Functional Mathematics</td>
<td>CBS 109-110</td>
<td>Minimum of 3 years in high school including 2 years of Algebra, one semester each of Trigonometry and Geometry.</td>
<td>Pass any one of the following 3 sequences with a minimum “C” average:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Mathematics 302-303-304</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Mathematics 211-212-213</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Mathematics 331-332-333</td>
</tr>
<tr>
<td>Modern Languages</td>
<td>See course descriptions</td>
<td>Minimum of 3 years of one foreign language.</td>
<td>Two quarters appropriate level of one language.</td>
</tr>
<tr>
<td>American Idea</td>
<td>CBS 301-302</td>
<td>Minimum of 4 years of high school Social Studies, including one year each of World and American History.</td>
<td>No Waiver</td>
</tr>
<tr>
<td>(Not available to Freshmen)</td>
<td></td>
<td></td>
<td>No Waiver</td>
</tr>
<tr>
<td>Humanities</td>
<td>CBS 315-316-317-308</td>
<td>Evidence of competence acquired elsewhere. See course chairman.</td>
<td>No Waiver</td>
</tr>
</tbody>
</table>
Waiver

Some entering students have already achieved competence in one or more areas of General Education. These students may request waiver of one or more of the General Education requirements. However, a specific high school unit may not be applied toward a waiver of more than one General Education area. For example, high school chemistry may not be used toward the waiver of both biological and physical science. Applications for a routine waiver must be completed in the Admissions Office during the first quarter the student is in attendance at the University. Routine approval will be granted when applicants meet the following conditions: (1) a score of 425 or higher on the Florida State-Wide Twelfth Grade Tests, 24 on the ACT, or 1075 on the CEEB; (2) a grade of "C" or higher in each of three or four years of relevant high school work. A course which has been waived may not subsequently be taken for credit. Requirements specific to the area in which the waiver is requested are shown in the chart on the opposite page.

General Education requirements may be satisfied by independent study or credit by examination, according to the procedures described on page 51 of this catalog. Students who have completed more than two college courses in the field of study concerned may not earn credit by examination. They may, however, take the examination and secure a waiver by scoring a "C" or higher.

Placement of Students in Language Classes

Generally, if a student has had four years of high school language, he should enroll in either 203 or 301. Three years' high school would put him in the Intermediate II course, and two years' high school in the Intermediate I course. If there is uncertainty as to proper placement, the student should be referred directly to the Department of Modern Languages.

Academic Advising

At the University of South Florida, academic advising is the province of the teaching faculty. It is thus an extension of the teaching function—a conscious concern for the academic and educational questions that most students have about the importance of their studies, the proper direction of their educational development, and the practical values of their educational objective.

It is the responsibility of the Division of University Studies to provide an advising program for Freshman students during their first year of study, and for other students who are undecided on a degree major. Such students should contact the Coordinator of Student Advising in the Division of University Studies for an adviser assignment. A selected corps of advisers serves students who are registered in the Division of University Studies. Faculty members participating in the program represent all of the colleges of the University and are chosen because of their interest and experience in curricular advising.

The advising of students entering the degree-granting Colleges is the responsibility of the Colleges. The new student entering with 45 credits or more, who has selected a major, should contact the college of his choice for assignment of an adviser.
A student usually meets once each term with his adviser for purposes of program planning. However, he is encouraged to visit his adviser whenever he feels in need of help with academic or personal problems. Although the adviser is essentially a resource person for assistance with academic and curricular matters, he can often refer the student to a source of specialized help when the problem is one with which he is not qualified to deal.

Although it is not necessary for a student to have a specific educational goal in mind at the time he enters the University, he should discuss with his adviser any general educational objective he might have at their first meeting. Some courses of study require enrollment in key courses during the first year if the student is not to lose time in his work toward a degree. Both engineering and the medical sciences are curricula which illustrate this point. Provisions are made to permit a change of adviser when it appears to be in the best interests of the student. A change of educational objective is the most common reason for reassignment, but reassignment may be made at any time the student or adviser believes a change is desirable.

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

Admission to a Degree Granting College

Freshman students and transfer students with less than 45 credit hours are assigned to the Division of University Studies for purposes of advising. Students with 45 hours or more, but fewer than 135 hours, who are undecided on a major or who do not meet the requirements for admission to one of the degree granting colleges may remain assigned to the Division of University Studies. In all cases, students must complete the last 45 credits of their undergraduate work in the degree granting college from which they are to graduate.

Generally, a student enrolled in the Division of University Studies will be eligible for admission to a degree granting college when he has completed at least 45 hours credit with a 2.0 average and meets the criteria specified by the college to which he wishes to be admitted. Each college has specified in this catalog its requirements for admission. Transfer students with 45 hours or more may be admitted directly to a degree granting college if they meet the requirements specified for that college.

Availability of Courses and Programs

The University does not commit itself to offer all of 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 quarters or years, or even less frequently if there is little demand. Some of the less popular majors may not become available until later in the University's development. Students wishing such majors may take what is offered here and major in some closely related field or transfer to an institution which offers the desired program.
Notice of Change

Notifications regarding change of address, change of name, change in marital status, change in residency, and change of citizenship should be filed promptly with the Office of Records & Registration.

SPECIAL ACADEMIC FEATURES

The University of South Florida seeks to achieve its objectives not only through its formally organized colleges and courses but also through certain special services. These are programs or activities which clearly are designed to enhance the education of students but do so through means other than orthodox courses and classes. Many of these do not offer academic credit, although some may be means by which students do earn credits. Regardless of whether or not these activities count toward the definite graduation requirements, they can be tremendously significant in the lives of students who participate in them.

CREDIT BY EXAMINATION

Students may apply to take certain lower level courses by Credit by Examination. If the application is approved by the college concerned and presented at registration, they take the final examination near the end of the term. Those making "B" or higher on the examination will receive college credit for the course. Those making "C" are still eligible for waiver but without credit. Those making "D" or lower lose the waiver privilege and must take the course in class to satisfy the course requirement. Students who have completed more than two college courses in the field of study concerned may not earn credit by examination; however, they may take the examination and secure a waiver by scoring a "C" or higher. Note: The regular "incomplete grade" regulations and free structure apply to all courses scheduled through the credit by examination procedure.

INDEPENDENT STUDY

Graduate or undergraduate students wishing to take a course by independent study must contact the instructor of the course and complete a written contract. This contract 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 course in the regular manner and for a specific section.

ADVANCED PLACEMENT CREDIT PROGRAM

The University of South Florida participates in the Advanced Placement Program conducted by the College Entrance Examination Board, which pro-
vides 13 college-level advanced placement examinations in American history, biology, chemistry, English, European history, French, intermediate German, advanced German, Latin IV, Latin V, mathematics, physics, and Spanish. Examinations in Russian are being added.

Examination papers are graded by selected committees on a five-point scale: 5—high honors, 4—honors, 3—good, 2—credit, 1—no credit.

The University allows automatic advanced placement credit for scores of 3, 4 and 5, and allows advanced placement with or without credit for scores of 2, upon recommendation of the program concerned.

Participation in this advanced placement program does not affect the University’s regulations concerning waiver, credit by examination, independent study, or other provisions for the advanced placement of qualified students.

ADVANCED PLACEMENT NON-CREDIT PROGRAM

Frequently a superior student, particularly in the fields of science and mathematics, is allowed to enter advanced courses in those subjects. It is possible for students well trained in mathematics to enter calculus as freshmen. It is also possible for well trained students to enter physics or chemistry without having other college level science. Before permission is granted to do so, students are required to take a science and mathematics examination to determine whether or not they actually have the knowledge and competency to succeed in these advanced courses. This same procedure is applied to other subjects.

EXTRA LOADS

The normal load for full-time students ranges from 12 to 18 quarter hours each term. For most students seriously involved in study this is ample. For some students, however, an overload is the best way for them to gain maximally from their college education.

Registration for more than 18 credits requires approval of the dean of the student’s college or the director of the Division of University Studies, for students registered there. A first-quarter freshman is only rarely permitted to undertake more than 18 credits. Thereafter, permission may be granted if the student’s grade point is 3.0 or higher.

DEANS LIST

Full-time undergraduate students who demonstrate superior academic achievement, by attaining a 3.5 grade point average in 12 or more hours attempted during one quarter, will be honored by qualifying for the “Dean’s List.” The Dean of the College in which the student is majoring will award a certificate in recognition of this academic honor. Each degree-seeking undergraduate student will be recognized and honored after each quarter in which he demonstrates superior academic achievement.

The Phi Kappa Phi honor society recognizes outstanding seniors.

College Level Examination Program (CLEP)

Students who have a strong background in general education may earn up to 45 hours of credit at USF through the CLEP program. The CLEP program consists of five tests taking six hours to complete at a cost of $25.00. Arrangements for the tests may be made through the Office of Evaluation Services. It is not necessary for a student to take the entire set.
The cost for any one test is $15.00; for two or more tests, the $25.00 fee applies. Successful completion of any of the tests means performance at or above the 50th percentile, sophomore norms. Credits assigned for successful completion of the tests are as follows:

<table>
<thead>
<tr>
<th>Test</th>
<th>CBS Credit</th>
<th>Elective Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>8 hours for CBS 101-2</td>
<td>1 hour</td>
</tr>
<tr>
<td>Humanities</td>
<td>5 hours (the remainder of the requirement may be met with any one of CBS 308, 315, 316 or 317).</td>
<td>4 hours</td>
</tr>
<tr>
<td>Social Science</td>
<td>9 hours for CBS 301-2</td>
<td>—</td>
</tr>
<tr>
<td>Mathematics</td>
<td>—</td>
<td>9 hours</td>
</tr>
<tr>
<td>Science*</td>
<td>—</td>
<td>9 hours</td>
</tr>
</tbody>
</table>

* If the physical science subscore equals or exceeds the 50th percentile, the student can take 6 hours credit for CBS 208-9 and 3 hours elective credit. In this case, he needs to take CBS 210 to complete the physical science sequence.

The following restrictions will apply
1) A student may not receive both transfer credit and CLEP credit in the same area. Normally, whatever occurred at the earliest point in time is what should appear on the student's permanent record.
2) The maximum number of hours for which a student can obtain credit from extension, correspondence, and USAFI courses, combined with the CLEP, is 45 hours.
3) The student cannot receive credit by way of the CLEP if he has already taken courses at an institution of higher learning covering the area of concern.

### Evening Courses

Evening courses at the University of South Florida are considered to be a part of the regular academic program that are offered at times that are particularly convenient to people within commuting distance who wish to continue their education while occupied during the day with other responsibilities. Requirements for evening courses are those for the regular academic program. Evening students who wish to seek degrees must apply to the University and must present all material required and described under Admission to the University. Evening students may be assigned to an adviser after admission and should contact the Division of University Studies for adviser assignment. As a general rule part time students attending night classes are encouraged to take no more than two courses.

Students who wish to take courses for enrichment but who do not wish to pursue degree programs may enroll in courses on a space available basis using Special Student enrollment procedures. See pages 18-19.
Summer Session
The Summer Session (Quarter IV) constitutes an integral part of the academic program of the University of South Florida. Summer courses are identical to those offered at other times during the academic year and are taught by the regular University instructional staff and by visiting teachers. In addition to regular courses, there are various credit and non-credit work-shops, institutes and conferences conducted by specialists.

While the Summer Session serves as a continuation of study, as the fourth quarter of the academic year for regular students, attempts are made to make the schedules of many courses and programs attractive to in-service teachers, junior college transfer students and beginning freshmen just graduated from high school.

Continuing Education

LOCATIONS

Programs described below are available in many geographical areas but coordination of these programs is handled through the Center for Continuing Education located on the Tampa campus, the St. Petersburg campus, and the Sarasota Office for Continuing Education. Individuals desiring more information may contact any of these offices.

CREDIT COURSES

The University of South Florida serves the in-service and continuing educational needs of its ever-expanding professional and occupational community which encompasses 12 counties: Charlotte, DeSoto, Hardee, Hernando, Highlands, Hillsborough, Lee, Manatee, Pasco, Pinellas, Polk, and Sarasota.

Both degree and non-degree seekers may participate in the University's Continuing Education Credit Program. A part of an individual's master's degree credit may be earned by taking off-campus credit courses. This individual, however, is encouraged to apply for graduate status at an early date so that these courses may be considered for inclusion in his planned and approved graduate program of studies. Acceptance for enrollment in a course does not itself constitute acceptance to the University.

To assure quality of instruction, the 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 and audio-visual instructional 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 which are initiated by individuals or interested groups. Requests for continuing education courses in the area of education should be submitted to the County Extension Coordinator designated by the county superintendent of schools. Requests for continuing education courses in all other areas should be transmitted by individuals, groups, compan-
ies, agencies, etc., directly to the Coordinator of Off-campus Credit Courses, Center for Continuing Education, University of South Florida.

NON-CREDIT PROGRAMS

A variety of non-credit educational programs (conferences, workshops, short courses, certificate programs, etc.) of varying lengths are scheduled throughout the year, 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 Center for 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.

The Center also offers a number of non-credit certificate programs and courses designed to meet various educational needs of individuals. Emphasis is placed upon quality classes for professional advancement, personal improvement and cultural enrichment.

Registration in these classes is open to all adults with a desire for knowledge and interest in the subject matter.

SARASOTA OFFICE FOR CONTINUING EDUCATION

The Sarasota Office for Continuing Education was established to offer University services in Sarasota and Manatee Counties and to coordinate credit and non-credit courses in that area. The Sarasota Office is located in a building on the Sarasota High School campus and classes are held in the high school.

CHINSEGUT HILL CONFERENCE CENTER

The Chinsegut Hill Conference Center is the University of South Florida’s educational center, available for conferences, workshops, planning meetings, seminars, retreats, and field trips. Chinsegut Hill is a 180-acre tract surrounded by a 6,000-acre federal agricultural and beef cattle experiment station, wildlife refuge, and forest reserve. It is located five miles north of Brooksville, Florida, off U.S. Highway 41 by way of State Road 581.

The manor house at Chinsegut Hill has indoor facilities to accommodate 50 to 60 people, with maximum single room capacity of 35. The mansion’s long verandas are also suitable for meetings. Overnight groups of up to 20 persons can be housed in the mansion. Arrangements to use the Chinsegut Hill Conference Center should be made through the Center for Continuing Education.
Bachelor of Independent Studies
Adult Degree Program

The BIS Program is an adult oriented, external degree program for individuals whose lifestyles preclude attendance at regular classes. The BIS student proceeds at his own pace and, for the most part, in his own setting. The exception is the seminars which require minimal residence.

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

The BIS Degree candidate pursues each of the four areas of study through two approaches. The first phase of work for each area consists of guided independent study. The student proceeds under the guidance of a faculty advisor who furnishes directions relative to reading assignments, methods of reporting and other study projects. When the student and his advisor feel that he has attained adequate competence in the area of study, the student is invited to take an Area Comprehensive Examination.

The second and final phase of work for each area consists of an area seminar. The seminar represents a period of intensive residential learning under the direction of a team of USF faculty members. Required residence associated with the seminars totals thirteen weeks. The seminars for the first three areas are three weeks in length. The fourth area seminar requires four weeks in residence.

Those seeking admission to the BIS Program must qualify for admission to the University of South Florida and for admission to the BIS Adult Degree Program. The USF Director of Admissions rules on the admission of an applicant to the University. The BIS Council rules on admission of an applicant to the BIS Program. Applicants must be at least 25 years old. An individual under twenty-five whose occupation precludes attendance at regular classes is eligible to apply for a waiver of the minimum age requirement. On successful completion of the four study areas and on recommendation of the BIS Council, the Director of the BIS Program certifies the candidate to the Vice President for Academic Affairs who makes the final recommendation that the degree be conferred. BIS degrees are conferred at regular graduation ceremonies at the University.

Fees for the BIS Degree Program are as follows:

<table>
<thead>
<tr>
<th>Service</th>
<th>Charge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Fee</td>
<td>$15.00</td>
</tr>
<tr>
<td>Pre-Enrollment Procedures</td>
<td>50.00</td>
</tr>
<tr>
<td>1st Area Enrollment</td>
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</tr>
<tr>
<td>Independent Study</td>
<td>250.00</td>
</tr>
<tr>
<td>Seminar</td>
<td>250.00</td>
</tr>
<tr>
<td>2nd Area Enrollment</td>
<td></td>
</tr>
<tr>
<td>Independent study</td>
<td>500.00</td>
</tr>
<tr>
<td>Seminar</td>
<td>500.00</td>
</tr>
<tr>
<td>3rd Area Enrollment</td>
<td></td>
</tr>
<tr>
<td>Independent study</td>
<td>500.00</td>
</tr>
<tr>
<td>Seminar</td>
<td>500.00</td>
</tr>
<tr>
<td>Inter-Area Enrollment</td>
<td></td>
</tr>
<tr>
<td>Independent study</td>
<td>250.00</td>
</tr>
<tr>
<td>Seminar</td>
<td>300.00</td>
</tr>
<tr>
<td>TOTAL*</td>
<td>$2115.00</td>
</tr>
</tbody>
</table>

*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
Cooperative Education Program

The Cooperative Education Program is an academic program open to majors in all disciplines offered at the University. The program's objective is a balanced education where occupational experience is an integral part of formal education, and theory is blended with practice. In addition to regular classroom and laboratory exercises, it acquaints the student with the world of work and a professional environment. The ultimate objectives of the program are to provide relevance in the educational process, direction in career planning, and bringing business, industry, and governmental agencies close to the educational program of the University and have the graduates absorbed into permanent employment of the leading employers.

The Cooperative Education Program is particularly designed for recent high school graduates rather than older, more mature students with considerable work or professional experience. It also requires students of demonstrated academic ability. A student must have a minimum of 24 quarter hours of academic work completed with a grade point average of 2.0 or better before being assigned to an employer. The program is open to all students regardless of major, undergraduate and graduate as well.

Students transferring 24 or more hours of credit from another school are eligible immediately to enter this program.

All University of South Florida cooperative programs are approximately four years in length except in the field of engineering, which is approximately a five-year program. Following two or more quarters on campus the student is assigned to a team and alternates between quarters of training (paid employment) and quarters of study.

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.

Many types of enterprises have joined the University as cooperative employers. Those currently having cooperative programs and accepting University of South Florida students in these training programs include: public utilities, financial institutions, chemical plants, department stores, school systems, air-
craft and automobile manufacturers, insurance firms, chemical, biological, and nuclear laboratories, and many governmental agencies.

Students are encouraged to make application for placement in the program during their first quarter on campus even though they must complete at least 24 hours of academic work before being assigned to an employer. 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, who fail to keep their agreement to remain with an employer to the end of a given training assignment, or who fail to remain in the program as programmed, will not be permitted to register as full-time students during their next quarter on campus.

Cooperative Education students are encouraged to take one course during each training period. This may be a regular course taken by class attendance, by independent study, or credit by examination at the University of South Florida or any other accredited college or university, a course by home study or correspondence, or a special problems course in an area appropriate to the student’s major interests. Most of these special problems courses at the University of South Florida carry a title of individual research and a course number at the 400 level. They may be repeated and credit may vary from one to five hours per quarter for Cooperative Education students, the amount to be determined at the time of advising.

A special course is available for Cooperative Education students — CBS 400. Cooperative Education Report (1-5 credits). This course is designed specifically for Cooperative Education students in which the student pursues a subject dealing with his training assignment and/or his major area of professional interest. The Cooperative Education student is assigned to a professor in his major field and will confer regularly with him on the subject, structure and content of the project. The findings of this project would be embodied in a written report. This course may be used with prefixes other than CBS if approved by the dean and department head of the college and area concerned. Further information may be obtained in the Office of Cooperative Education.

The registration fee for the training period is $40.00 and, in general, covers the fee for six credit hours (see Cooperative Education Handbook for exceptions), student publications, use of the Library, Student Health Service, and all privileges enjoyed by other full-time students including the use of recreational facilities. Transfer students are welcome to select the program and should make application during their first quarter at the University.

National Student Exchange

The University is affiliated with the National Student Exchange which permits students to study for up to one year in another public university as 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. By 1972, it is anticipated approximately 30 universities in the United States will be members.

In addition to the University of South Florida, other universities involved are: Morgan State (Md.), Illinois State, Colorado State, Montana State, William Paterson College (N.J.), Portland State (Ore.), Towson State (Md.), and the Universities of Alabama, Hawaii, Idaho, Montana, Nevada (Reno), Massachusetts, Oregon, and Wisconsin (Green Bay).

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

Students must apply for exchange at least five months before the anticipated term or terms off campus at the exchange school. 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.

**Florida College Exchange**

Through an exchange agreement, students of the University of South Florida, with the approval of their advisers, may elect courses in Greek, Hebrew, Bible, or religious education 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.

**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: special course offerings, research opportunities, unique laboratories, and library collections. For procedures and conditions, see the section on Graduate Study.

**University of Florida Correspondence Courses**

Because the University of Florida has been designated as the only institution in the State University System to offer correspondence courses, the University of South Florida will consider such courses as resident credit—with the grades not transferable.

**Off-Campus Term Program**

The Off-Campus Term Program offers a program of experience-study whereby all students are encouraged to spend at least one quarter engaged in individual educational pursuits away from the University campus. Students are offered a wide variety of opportunities for self-designed and self-implemented exper-
iences 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.

A major option relating to outside agencies is the OCT Social Action program. These projects are much like VISTA programs in nature. Students work as paid volunteers for non-profit agencies working for social change or improvement of the poor and disadvantaged or serving the community in other ways. These agencies expect student volunteers all 4 quarters of the year and need 40 or 50 students each term in order to achieve their goals.

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 and pay fees for variable hours of credit from 1 to 15. 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 appropriate faculty. Credits may be earned which apply towards general education, general elective, and major field credit requirements.

The Community Interaction Course is specifically designed for off-campus purposes. This is a basic and broad range environmental study where the student learns of his environment through guided and intentional interaction with it.

The full resources of the University are available to assist the student in his planning and implementation of his off-campus experience. The OCT Program operates throughout the entire year and students are urged to plan their off-campus experiences during the fall through spring quarters to avoid the traditional rush common to the summer term.

Educational Resources

The Division of Educational Resources offers the following services:

Audiovisual Services. Audiovisual Services make a variety of equipment and instructional materials available for the classroom, University events, and other functions. Such equipment includes public address systems, tape recorders, and projectors of all kinds. Various types of audiovisual equipment can also be rented.

Production Services. Graphic, photo, and cinematography services for use in the classroom as well as the overall University program are produced here.

Broadcasting Services. Radio and television are a part of the Broadcasting Services. Radio WUSF is an FM stereo station operating on 89.7 mhz. WUSF-TV, Channel 16, UHF, is a non-commercial television station serving the University and the communities of the nine surrounding counties. These facilities are used as a laboratory for students enrolled in the broadcasting curriculum.

Instructional Materials Center. The Center maintains a collection of records, filmstrips, filmloops, tapes, transparencies, maps, slides, and a curriculum library of elementary and secondary instructional materials. All items circulate to students and staff for study and recreational use.

Film Library. A large collection of 16 mm films is maintained
to support instruction. Preview, booking, scheduling and showing of films is offered. Films not a part of the University Film Library will be requested from other sources through this agency.

**Learning Laboratory.** A telephone dial-access audiovisual laboratory is available for instructional purposes. Over 190 different audio programs are accessible at one time. A switchboard handles outside calls for audio programs. Video tapes, 16mm films, slides, and television programs make up the 12 video sources available in the laboratory. These programs may also be channeled to on-campus classrooms via the closed circuit capabilities of the Learning Laboratory.

**Student Production Center.** The center offers both graphic and photo facilities for staff and student use.

### Evaluation Services

This office conducts testing programs, test scoring, and institutional research. Testing services consist of those for admission to colleges and special programs, graduate and professional school admission such as the Graduate Record Examination, foreign language proficiency, and many other special programs.

Test scoring, statistical analysis of tests, and advisory service in test construction are provided to faculty and other agencies.

Evaluation Services is a part of the Office of Academic Services, which serves as a research unit within the Academic Affairs area.

### The Library

It is important that a library should 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. A library is good, not because of the volumes it has, but because it is used by people who derive personal benefit from its use and who produce something as a result of its use that will be of benefit to our society.

The Library staff wants students to regard books as a way of life and use the Library regularly. One of the reasons for providing a library collection is to encourage students to buy, read and discuss books and feel bereft when deprived of books. The University expects students to become thoroughly familiar with the University Library book collection, to master the techniques of using it, and—before graduation—to achieve a familiarity with books which will carry over into later life.

The University Library has approximately 325,000 volumes and seating for 725 readers.

The Circulation desk, Reserve reading room, Special Collections, a portion of the circulating book collection, and recreational reading books are on the first floor. Special Collections include the Florida collection, rare books, University archives, and the Florida Historical Society Library.

The Reference collection and current periodicals are on the second floor. The Reference staff assists students in the use of Library materials and of the card catalog which is in the Reference department.

In addition to more than 3,000 periodicals, the Library subscribes to
newspapers from Florida, major cities in the United States, and many foreign countries.

The balance of the circulating book collection and part of the bound periodical collection are on the third floor. The rest of the bound periodicals and U.S. government documents are on the fourth floor. The Library is a depository for U.S. government publications. All books, with the exception of reserve materials and Special Collections, are in open stacks. All students have the opportunity to become familiar with the Library holdings by browsing in the stacks.

**Division of Sponsored Research**

Research is an important aspect of the education programs at the University of South Florida. Faculty members are encouraged to pursue research activities, and many students participate in research and training projects supported by funds awarded to the University by public and private granting agencies. Research is integrated with the instructional program.

The Division of Sponsored Research is the central coordinating unit for research and other sponsored educational activities on the campus. It provides information about granting agencies and serves as a consultation center for faculty who desire help in processing research proposals.

Although the Division of Sponsored Research operates primarily for the benefit of the faculty, students who have an appropriate interest in research are welcome to visit the office.

**Computer Research Center**

The University maintains centralized, high-speed electronic computer facilities for use in teaching, research, and administration. This Center has a Systems Planning Department which assists University administrative offices, a Faculty Consulting Department responsible for facilitating the use of computers in relation to classroom teaching and research conducted by faculty and students, and an education unit which sponsors non-credit seminars in computer languages such as FORTRAN, COBOL, and other subjects relative to the use of computers. Finally, a central corps of programmers service the University computer needs as expressed through the systems and consulting departments.

Computer facilities include an IBM 360/65 system. As demand increases, remote batch processing terminals and other on-line terminals will be added and will use the centralized computer.

In addition to computer facilities, the Computer Research Center maintains keypunch, sorter, and electronic calculator devices in "open use" areas on a 24-hour basis to assist students and faculty in preparation, processing and checking of their data.
GRADUATE STUDY

The graduate programs of the University of South Florida are administered by the academic colleges through the College Deans. Each of the colleges is represented on the University-wide Graduate Council which is advisory to the Vice President for Academic Affairs on policy and curriculum pertaining to graduate study. The Graduate Council is charged with maintaining the excellence of all graduate programs.

The Director of Graduate Studies for the University serves as Chairman of the Graduate Council and is a member of the staff of the Vice President for Academic Affairs. The Graduate Council Chairman acts as the coordinating official for Graduate Study for the University.

The Graduate Council acts as a curriculum committee for courses that are normally taken by graduate students (i.e. those bearing course numbers 500 or above) and reviews proposals for the new programs at the graduate level prior to action by the Vice President. The Council also establishes University-wide entrance and degree requirements for graduate programs and sits as a deliberative body on petitions to consider waiver of any graduate program requirements or in cases of jurisdictional disputes.

The Director of Graduate Studies conducts reviews to determine that University requirements for advanced degrees and for graduate admissions are being met.

Master's Degree Programs Offered

COLLEGE OF BUSINESS ADMINISTRATION
Master of Business Administration
Master of Accountancy
Master of Science degree in Management
Master of Arts degree in Economics
Master of Business Administration with Specialization in Marketing

COLLEGE OF EDUCATION
Master of Arts degree programs in:
- Art Education
- Elementary Education
- English Education
- Foreign Language
- French
- German
- Spanish
- Guidance
- Humanities Education

Library and Audio-Visual
Mathematics Education
Music Education
Physical Education
Reading Education
School Psychology
Science Education
Social Science Education
Speech Education
Special Education, with specialization in:
- Emotionally Disturbed
- Gifted
- Mental Retardation
- Varying Exceptionalities
- Speech Pathology (5-year program)

Vocational and Adult Education, with specialization in:
- Adult Education
- Business and Office Education
- Distributive Education
- Industrial-Technical Education

Junior College Teaching
- Astronomy
- Biology
- Business
- Chemistry
- Engineering
- English
- French
- Geography
- Geology
- History
- Mathematics
- Physics
- Political Science
- Psychology
- Sociology
- Spanish
- Speech

**COLLEGE OF ENGINEERING**

Master of Engineering
Master of Science in Engineering (post-baccalaureate, or 5-year BSE/MSE programs)

**COLLEGE OF FINE ARTS**

Master of Fine Arts degree in Visual Arts
Master of Music

**COLLEGE OF LANGUAGE & LITERATURE**

Master of Arts degree programs in:
- English
- French
- Linguistics
- Philosophy
- Spanish
- Speech

**COLLEGE OF NATURAL SCIENCES**

Master of Arts degree programs in:
- Astronomy
- Biology (including Bacteriology, Botany, Zoology)
- Geology
- Mathematics
- Marine Science
- Physics

**COLLEGE OF SOCIAL & BEHAVIORAL SCIENCES**

Master of Arts degree programs in:
- Geography
- Gerontontology
- History
- Political Science
- Psychology
- Rehabilitative Counseling
- School Psychology
- Sociology

Master of Science degree program: Clinical Speech Pathology and Audiology (5 year program)
Intermediate Programs Offered

COLLEGE OF EDUCATION
Education Specialist (Ed.S.) in Elementary Education with concentration in:
- Early Childhood Education
- Mathematics Education
- Reading and Language Arts
- Special Education

Ph. D. Programs Offered

COLLEGE OF EDUCATION
Doctor of Philosophy degree in Education
Specialization in Elementary Education with concentration in Early Childhood Education, Mathematics Education, Reading and Language Arts, and Special Education

COLLEGE OF SOCIAL & BEHAVIORAL SCIENCES
Doctor of Philosophy degree program in:
- Psychology with specialization in Clinical, Experimental, and Industrial-Organizational

COLLEGE OF LANGUAGE & LITERATURE
Doctor of Philosophy degree program in:
- English

COLLEGE OF NATURAL SCIENCES
Doctor of Philosophy degree programs in:
- Biology
- Chemistry including Biochemistry and Environmental Chemistry
- Mathematics

Procedures For Applying

Specific instructions on the procedures for applying are given on page 17. Graduate students are advised to apply early. A $15 non-refundable application fee must accompany the application unless a student has been previously enrolled and has paid the fee at the University. Two official transcripts from every college attended must be submitted directly to the Office of Admissions along with official scores of the Verbal and Quantitative portion of the Graduate Record Examination.

Requirements for Admission to Graduate Study

The requirements for admission to graduate standing include:
1. A baccalaureate degree or its equivalent from an approved college or uni-
versity. This requirement may be waived for students accepted into certain approved programs which lead directly to graduate degrees.

2. A "B" average or better in all work attempted during the last two years of undergraduate work (Junior and Senior years) or a total Quantitative-Verbal Graduate Record Examination score of 1000 or higher. Applicants from the College of Business (except Economics) must submit a score of 450 or higher on the ATGSB examination in place of the GRE.

Applicants are required to submit these examination scores and examinations must have been taken within five years preceding application for admission. The official report of scores must be submitted directly to the Office of Admissions by the Testing Service.

3. Two official transcripts from all institutions of higher learning attended submitted to the Office of Admissions.

4. A completed Confidential Personal Student Questionnaire sent from the last institution attended directly to the Office of Admissions at the University of South Florida.

5. Acceptance by the College and program for which the student is applying including satisfaction of any additional requirements specified by them in this Bulletin.

6. Foreign students are required to present satisfactory scores on the Test of English as a Foreign Language (TOEFL). Foreign students must comply with requirements listed on page 21.

A student's acceptance to graduate standing is granted for the Quarter specified in the official acceptance notification. In the event that a student wishes to change the date of entrance, he must notify the Office of Admissions of his intentions to do so. Failure to enroll during the specified Quarter without notifying the Admissions Office will result in the cancellation of the admission and will necessitate re-application. A student's acceptance to graduate standing will remain active for up to five years while he is in the Armed Services. A student should notify the Office of the Registrar six weeks prior to re-registration in order to have his enrollment reactivated.

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

SPECIAL STUDENTS

Students who are qualified to enroll in specific graduate courses but who either do not desire to enroll as graduate students or do not meet the admission requirements for graduate standing, may enroll as special students. Special students may enter classes on a space available basis during the first week of each Quarter by obtaining consent of the course instructor. Special students must meet all the 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 it 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 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 at the host institution.

After agreement by the Director of Graduate Studies 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 Quarter 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 AND FELLOWSHIPS

The University provides a number of graduate teaching and research assistantships as well as certain fellowship programs. Students should inquire directly to the Head of the Department in which they plan to major for information on financial aids available to graduate students.

Regulations Governing Graduate Study

Master's Degree

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 chairman of the department or area in which the degree is sought upon a mutual recommendation from the student and professor concerned.

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 chairman upon recommendation
from the student and his major professor. The committee will approve the course of study for the student, supervise his research, and accept his thesis.

Program of Study and Course Requirements

During the first term of study, in consultation with his adviser, 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 adviser should be maintained in the student's department file.

A minimum of 45 quarter hours is required for a master's degree, at least 24 hours of which must be at the 600 level. At least 30 hours must be in formal, regularly scheduled course work, 15 of which must be at the 600 level. Courses at the 500 level are acceptable for credit towards the master's degree when taken as a part of a planned degree program.

A major professor or adviser may approve up to 8 hours of 400 level courses if taken as part of a planned degree program. Additional graduate credit may be earned in 400-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.

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 quarter is not in good standing under the requirements for his degree as published, shall be considered to be on probationary status. Such a student may be dropped from degree seeking status after one quarter of probation by the dean of his college. Notification of probation shall be made to the student in writing by his major adviser, with a copy to the college dean. At the end of the probationary quarter, the major adviser 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 appeal first to his department through his major adviser, then to the college dean or his representative, and then to the Graduate Council, 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 departmental file.

Load

A student taking nine or more hours of graduate work in a full quarter will be classified as a full-time student. The normal graduate load is 12 credit hours.
Transfer Credit

Transfer of credit from another recognized graduate school is limited to nine quarter hours. All transferred credit must (1) be evaluated as graduate credit by the Director of Admissions, (2) be approved by the program or college concerned, and (3) have been completed with grades of “B” or better.

Transfer credits must be posted to the student’s permanent record no later than one full term prior to his graduation. It is the student’s responsibility to make certain that the official who is to certify him for graduation properly notifies the Office of the Registrar regarding transfer credits.

Time Limit

All work applicable to the master’s degree requirements must be completed within the seven years immediately preceding the awarding of the degree.

Application for Degree

Each student who plans to complete his graduation requirements by the end of a term must complete the Application for Graduation within 15 days after the beginning of the term in which he will graduate. The application is available at, and after completion must be returned to, the Registrar’s Office.

Final Comprehensive Examination

Prior to clearance for the degree, the candidate must perform satisfactorily on a comprehensive examination in his major field.

Thesis

When a thesis is required, an original and one copy of the approved thesis must be submitted to the Director of Graduate Studies before the end of the quarter in which the student is to receive his degree. Only after the thesis and the copy have been approved for filing in the University Library can the student be certified for his degree. The thesis should conform to the guidelines in the Handbook of Graduate Theses and Dissertations available in the University Bookstore.

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.

S-U Grades In The Graduate Programs

No graduate student may take a course in his major on an S-U basis except for certain courses such as seminars, theses, research projects, practicum, and internship that are specifically approved by the Graduate Council to be given on this basis. The student may apply a maximum of 6 hours of such credit in his major (excluding Research, Design, Practicum, or Internship) toward a master’s degree. A graduate student can take courses outside his major on an S-U basis even though the courses are in fulfillment of the degree requirements. To do so, he must have prior approval of both the professor of the course, his adviser, and the Dean of the College that will approve his degree.
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 graduate degrees from the University of South Florida except upon prior authorization of the Graduate Council, and approval of the Vice President for Academic Affairs.

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.

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 credits and completion of courses or by the acquiring of a number of terms of residency. The amount of residence 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 presenting of these findings with a high degree of literary skill in a dissertation.

SUPERVISORY COMMITTEE

A student working toward the Ph.D. degree must elect to do the majority of his work in a specifically approved area or department, and the remainder of his work in related fields. As soon as possible, normally during the first term of residency and upon recommendations from the student and his major professor, a supervisory committee shall be appointed for the student by the chairman of the department or area in which the degree is sought. This committee shall approve the course of study to be followed by the student, conduct his qualifying examinations, supervise his research, and conduct his final oral examinations. The major professor shall serve as chairman of the committee up to the final oral examination. This committee shall certify to the Dean of its college when all requirements have been met. The supervisory committee shall consist of at least five members, at least three of which must come from the area in which the major work for the degree will be done.

LANGUAGE REQUIREMENT

Before a student is eligible to take the comprehensive qualifying examination, he must have completed a reading knowledge of two foreign languages. Special work done outside the student's field of concentration and related subjects may be substituted for one language, provided this exception is recommended by the student's advisory committee and is approved by the Graduate Council. The total of transfer (see Transfer Credit, page 18) and off-campus work together should not exceed one half of the planned program and neither is finally accepted until such work has been accepted as appropriate by the student's supervisory committee. Any question of the appropriateness of transfer and off-campus courses will be resolved by the Graduate Council.

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 the campus at the University of South Florida. An academic year's residency shall be defined as a minimum of nine hours of graduate work per term, or the chairman of the student's advisory committee may certify that the student be considered as in full time residence. The student must pay the full registration fee. 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.

COMPREHENSIVE QUALIFYING EXAMINATION
At least one academic year before the degree may be granted, the student must pass a written comprehensive qualifying examination over the subject matter of his major and related fields. An oral examination may also be required by his committee. The completion of the comprehensive qualifying examination before mid-term will allow that term to be counted in full toward the academic year required. If the degree is not conferred within five calendar years of the comprehensive examination, the examination must be taken again.

ADMISSION TO CANDIDACY
A graduate student does not become a candidate for the Ph.D. degree until he is formally admitted to candidacy. This admission may not be granted until a certified statement from his advisory committee to the Dean of his college is submitted stating that he has successfully completed his comprehensive qualifying examination and in the opinion of his advisory committee he has demonstrated the qualifications necessary to successfully complete his requirements for the degree. The certificate of admission shall be issued by the Dean of his college through the Director of Graduate Studies.

Dissertation
At least two weeks prior to the final oral examination, a candidate must submit to the Director of Graduate Studies a typewritten original and one copy of a completed dissertation that has been signed by his committee. An abstract is also required. Upon approval of the dissertation by the Director, the student will be certified for his degree. 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. The dissertation should conform to the guidelines in the Handbook of Graduate Theses and Dissertations available in the University Bookstore.

Final Oral Examination
The final oral examination in general shall be a defense of the student's dissertation; however, other areas of the student's work may also be included as part of this examination. It shall be conducted by his advisory committee, but shall be chaired by a person, appointed by the Dean of his College, other than the major professor and outside the supervisory committee.
ACADEMIC PROGRAMS

The University of South Florida currently conducts academic programs through nine colleges: The College of Business Administration, the College of Education, the College of Engineering, the College of Fine Arts, the College of Language & Literature, the College of Natural Sciences, the College of Social and Behavioral Sciences, the College of Medicine and the College of Nursing. Each of these Colleges has its own requirements and standards, the descriptions of which appear on the following pages.

Each College has prepared its course offerings with strong undergraduate and graduate programs in mind. Each College accepts the idea that a college education begins with a broad base of general courses and proceeds to a more specialized work and ends with a formal effort to bring together the many separate threads of an education into a significant pattern.
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 individuals for business and government careers, and graduate education. It is the philosophy of the College of Business Administration to devote its resources to the continued growth of high quality undergraduate and graduate programs.

The undergraduate curriculum leads to a Bachelor of Arts in one of the following five major fields: Accounting, Economics, Finance, Management, and Marketing. The undergraduate programs are structured to accomplish the following objectives:

1. To give the student a broad foundation in general and liberal education, a thorough grounding in basic business courses, and some specific competence in at least one significant functional area of business.
2. To strengthen students' powers of imaginative thinking, creative, independent analysis, and sensitiveness to social and ethical values.
3. To instill in each student a desire for learning that will continue after he has graduated and taken his place in the community.
4. To convey to each student the spirit of pioneering, risk taking and progress which are essential to the continued development of the free enterprise system.

The graduate programs are structured to accomplish the following objectives:

1. To make professional education available to those qualified individuals who have selected specific career objectives in fields of business, government or education.
2. To support adequately the research activity so vitally necessary to maintain a quality graduate faculty and program.
3. To foster independent, innovative thinking and action as a professional individual.

UNDERGRADUATE ADMISSION AND DEGREE REQUIREMENTS

A program of education for business leadership must be based on a foundation
of comprehensive general education; consequently, most of this basic work
must be taken prior to admission to the college. It should be further noted
that approximately one-half of the work leading to the bachelor's degree in
business is required from academic areas outside of business.

Upon application, students who have fulfilled the following requirements
will be admitted to the College of Business Administration:

1. Total of 90 quarter hours of credit with a grade point ratio of 2.0 or better.
2. Those holding an A.A. degree from a junior college or university in a
   parallel program.

Transfer Students

From Junior Colleges: Junior college students should complete the program
of general education as required by the junior college. Certification to this
effect will be accepted as fulfilling the general education requirements of the
University of South Florida. Furthermore, the student should follow the
business parallel program indicated in his junior college catalog, to assure
graduation from the University of South Florida in minimum time. Should
the junior college catalog not specify pre-business courses, we recommend the
student take two semesters of mathematics, two semesters of economics, two
semesters of accounting, and one semester of statistics while still at the junior
college.

Business is requiring more and more analytical functions of its manage­
ment-level personnel each year. One of the most basic analytical tools is
mathematics and more and more higher mathematics is being required as
prerequisite for business courses. The student is therefore encouraged to
complete more than the minimum requirements of mathematics and add begin­
ning calculus to his curriculum at the junior college.

All transfer students, particularly those not pursuing the parallel pro­
gram should note that a maximum of nine quarter hours will be allowed for
courses taken during the first two years of junior college study which are
available only as 300 and 400 level courses in the College of Business Ad­
ministration at the University of South Florida. However, of these nine hours no
more than five quarter hours may be transferred for credits in the student's
major field.

From Non-Junior Colleges: Students attending a four year college who wish to
transfer should follow a program in general education similar to that required
at the University of South Florida. The prerequisite courses in business sub­
jects of accounting principles, economics principles, and mathematics should
also be included in the first two years of study. Transfer credit will be allowed
for all of the above courses. Any remaining courses after fulfilling the general
education requirements and business prerequisites should be taken in such
areas as mathematics, the natural sciences, the social sciences, and the
humanities.

BUSINESS PRELAW

Those students intending to go on to law school after obtaining a B.A.
degree in a business major should so indicate on their Application to Upper
Level. Special counseling will be provided. Unless a specific degree in
Accounting, etc., is desired, an explicit Pre-Law inter-disciplinary set of
existing courses will be arranged under the Finance major.
Requirements for Graduation

Graduation requirement is 180 academic hours.

Of the 180 hours, the Business course credits may vary from 87 minimum to 100 maximum. Consequently, non-business courses may vary from 93 to 80. This variance depends upon the major field chosen and differences in mix of General Electives and Business Electives. If the student enters USF as a freshman, his requirements for graduation are:

1. 57 hours of Basic Studies, including CBS 401;
2. 23-36 hours of General Electives;
3. 53 hours of Business Core, which includes 9 hours of Accounting (ACC 201, 202, 305); 8 hours of Economics (ECN 201, 202); 5 hours of Intermediate Price Theory (ECN 301); 8 hours of Statistics (ECN 231, 331); 5 hours of Finance (FIN 301); 5 hours of Management (MAN 301); 5 hours of Marketing (MKT 301); 5 hours of Law (GBA 301); 3 hours of Computer Application (GBA 333);
4. 20-27 hours in the major area as stipulated under each major with a 2.0 GPR in these courses. See curricula and programs following;
5. 14-20 hours of Business Electives.

Students transferring with General Education Requirements met need not adhere to the Basic Studies hours but rather need total non-business courses within the range of 80-93 hours. Business course requirements are the same as those for an entering freshman. Students transferring in excess of six quarter hours of Elementary Accounting must still complete ACC 305 in the Business Core. The extra hours of Elementary Accounting transferred will apply toward the Business Electives requirements. Those bringing Elementary Statistics will receive credit for ECN 231. Extra hours of Elementary Statistics will apply toward Business Electives requirements. These students, however, must take ECN 331 unless the equivalent has been taken at a senior institution.

CURRICULA AND PROGRAMS

1. ACCOUNTING
   Major Requirements: 27 hours in Accounting including ACC 301, 302, 411, 421, 423, and two of the following: ACC 401, 402, 405, 412, 424, 425.
   Business Electives: 14-20 hours of courses in College of Business Administration (other than accounting).
   It is strongly recommended that all accounting students take either GBA 371, Business Communication, or ENG 325, Advanced Expository Writing.

2. ECONOMICS
   The Economics Department is committed to preparing the student, both major and non-major, with a strong background in the science of Economics.
   Proper investigation of any science entails a universal presentation of the analytical and factual material of the subject matter.
   With this thought in mind, the subject matter is taught emphasizing a theoretical framework which will allow the individual student to identify and solve economic problems.
   Major Requirements: ECN 323, 401, and 17 hours of other Economic courses.
Business Electives: 14-20 hours in the College of Business Administration other than Economics.

3. FINANCE

Major Requirements: FIN 321, 411, 421, and 8 to 15 additional hours of upper level finance courses.

Business Electives: A minimum of 14 hours and a maximum of 20 hours of College of Business Administration courses outside of the Finance department.

General Electives: MTH 211, 212, 213 are strongly recommended.

4. MANAGEMENT

Major Requirements: All majors take 15 specified hours: MAN 311, 321, 331, 421, 431. Each major then selects 12 additional hours from the following: MAN 341, 451, 453, 461, 463, 465, 471, 472, 473, 489.

Business Electives: 14-20 hours of courses in the College of Business Administration (other than MAN prefix) to be selected in consultation with adviser: GBA 351, GBA 371, and GBA 499 are strongly recommended. Other recommendations are: FIN 411, 421, 351; MKT 413, 312, 403, 409, ECN 431, 311, 313, 341, 343, 351, 371, 401, 405, 411, 437; ACC 421, 423, 425.

General Electives: For those who choose either Behavioral or Industrial Relations electives within the major, selections which best complement the program should be chosen, with the assistance of an adviser primarily from Sociology, Political Science, Psychology and Speech. For those who choose Quantitative electives within the major, selections absolutely should include MTH 211, 212, 213 in addition to certain other Engineering courses selected with the assistance of an adviser.

5. MARKETING

Major Requirements: Marketing majors are required to take the following 5 courses (18 hours): MKT 312, 315, 411, 413, and 419; and an additional 9 hours (3 courses) selected from MKT 311; 316, 401, 403, 405, 407, 409, 414, 417, 489 in consultation with their major adviser. Any substitutions for the elective courses must be approved in writing by the adviser and the chairman of the Marketing Department.

Business Electives: 14 to 20 hours of courses in the College of Business Administration (other than marketing) to be selected in consultation with major adviser. Suggested selections from: GBA 351, 371, 362; MAN 311, 321, 341; FIN 411, 421; ACC 305, 421, 422; ECN 341, 351, 431, 437.

General Electives: It is recommended that marketing students select from courses in Psychology, Sociology, Speech, English, Engineering, Mass Communications, and Mathematics in consultation with their marketing adviser. Strongly recommended are MTH 211, 212, 213.

GRADUATE ADMISSION AND DEGREE REQUIREMENTS

Courses are offered in the College of Business Administration leading to one of five Master's degrees—the Master of Accountancy, the Master of Arts in Economics, the Master of Business Administration, the Master of Business Administration with specialization in Marketing and the Master of Science in Manage-
ment. Applicants must meet the University minimum requirements listed on pages 65-69. However, for programs in this College except the M.A. in Economics, a score of at least 450 on the Admission Test for Graduate Schools of Business must be substituted for a score of at least 1,000 on the Graduate Record Examination. The prerequisites are the following courses, or their equivalent: ACC 501, 502; ECN 501, 502, 231 and 503; FIN 501; MAN 501; and MKT 501. Courses in this College numbered 501-509 are ineligible for credit in the graduate programs of this College.

All graduate programs are to be completed with an overall "B" average (3.0 grade point average), and the student must give a satisfactory performance in a comprehensive examination after completion of all coursework.

Master of Business Administration

The M.B.A. program requires that a student satisfactorily complete a total of 48 quarter hours beyond the prerequisites listed above for graduate admission. These 48 hours include ACC 601, 602; ECN 605, 607; FIN 601, 602; GBA 603, 605, 615; MAN 601, 602; MKT 601, 602; and 9 elective credits in their coursework selected with the adviser's approval.

Master of Accountancy

It is contemplated that students applying for admission to this program will have a baccalureate in Business Administration which includes a minimum of 36 quarter hours credit in accounting. Students applying for admission who do not meet these prerequisites will be required to take additional courses. The number of additional courses deemed necessary will depend on the academic background of the individual students, and may vary from 27 quarter hours for a non-accounting business major to 61 quarter hours for a non-business major.

The program requires that the student satisfactorily complete a total of 48 hours including: GBA 603, 605; ECN 605, 607; MAN 602; FIN 601; Accounting Concentration including ACC 605, 606, 607, 611, 621, 623; and 12 quarter hours of electives to be selected by the student in consultation with his adviser. No more than six hours of the electives may be taken in the accounting area.

The Master of Arts in Economics

The applicant's undergraduate training should reflect a strong background in economic theory, supplemented with mathematics and statistics. An undergraduate major in economics is not required. Serious background deficiencies may require additional coursework.

The student in the M.A. in Economics program must complete a minimum of 45 quarter hours, including both coursework and thesis. The curriculum of 45 credit hours has four parts comprised of core courses, economics electives, general electives, and a thesis. The core courses, required of all students, include the following 14 credit hours: ECN 602, 603, 605, and 607. The econom-
ics electives involve a minimum of 15 credit hours for which the student must select one of the following five credit hour courses: ECN 561, 623 or 625; and in addition, ten hours from the following list: ECN 531, 561, 601, 604, 610, 623, 625. To satisfy the general elective requirement the student, with his adviser's approval, should earn a maximum of ten hours of elective credit in coursework outside of the area of economics. Depending upon the degree of difficulty or complexity involved, thesis credit may range from six to nine quarter hours.

Master of Science in Management

The Master of Science program builds specialized skills in characterizing and solving problems of administrative decision and action. Its foundations are behavioral science and quantitative analysis. While admission standards coincide with those of the M.B.A. program, the curriculum is distinct. Courses reveal the motivational and logical structures which underlie the various functional contexts in which managerial behavior evolves. Additionally, courses are designed to foster facility, rigor, and independence in applied research. Supervised selection and systematic investigation of a significant problem is an integral part of the curriculum.

The program requires completion of not less than 48 quarter hours course work and satisfaction, by enrollment or waiver, of the following: (1) six graduate courses in administrative studies outside the field of Management, equivalent to ACC 601, ECN 607 or ECN 605, FIN 601, GBA 603, GBA 605 and MKT 601, and (2) ten graduate courses in Management, consisting of MAN 601, MAN 602, MAN 603, MAN 607, MAN 615, MAN 699 (6 hours), plus four management electives. On the basis of their academic backgrounds students may apply for waivers to the Director of Graduate Studies of the College of Business Administration.

MBA with Specialization in Marketing

This specialized master's degree program provides the opportunity for students to develop knowledge and proficiency in the field of marketing while acquiring a useful understanding of the other major functional areas of business, the environment within which the firm operates, and the tools of analysis essential for making sound marketing decisions. This program allows students to have specific objectives and to broaden their employment opportunities in marketing and other business fields.

Students desiring a marketing emphasis should enroll in the M.B.A. program. The degree with specialization requires the completion of a minimum of 48 hours of graduate level courses including 15 hours of marketing courses. Students are required to take MKT 601 and 602, and select their elective courses (9 hours) in consultation with a marketing adviser from the following: MKT 603, 605, 607, 609, 611, 683.
The College of Education places an emphasis on each student learning what is relevant for the world of today and on his getting deeply involved in his own educational process. Thus, the emphasis is on the student learning to do his own thinking about himself and his 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, coordinated through the University Council on Teacher Education. 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.

BACHELOR OF ARTS DEGREE PROGRAM

The undergraduate teacher education program leads to the Bachelor of Arts degree. It is an upper division program.

Admission Requirements

While each student admitted to the University is expected to have the qualifications to graduate, this does not necessarily mean that he has the qualifications to become a teacher.

The College of Education administers the admission policies to all teacher education programs of the University, as well as those for the College itself. All students who plan to teach must apply for admission to a teacher education program through the Central Advising Office of the College of Education.

Prospective secondary and K-12 teachers are enrolled in teacher educa-
tion programs involving both the College of Education and various other colleges of the liberal arts areas.

Students who have completed successfully the two-year Associate of Arts Program at a junior college and other transfer students who have earned at least 75 quarter hours should apply for official admission to teacher education programs during their first quarter in residence.

Admission to the upper level teacher education program is contingent upon meeting the following minimum requirements:
1. Completion of a College of Education upper level application form*
2. Completion of the General Education required of Education majors. Provisional admission may be granted if no more than three individual CBS courses remain to be taken, provided CBS 101 and 102 have been completed.
3. Completion of a minimum of 75 quarter hours. (excluding P.E.B. hours)
4. An overall grade point ratio (GPR) of 2.0.
5. Additional criteria at the discretion of the admissions and selections committee (i.e. medical center, student affairs, speech and hearing clinic, etc.).

Handicapped Students—Application will be reviewed by the admissions committee. Acceptance of the application of the student will be determined by the following:
1. The judgment of the committee that the student will be able to carry out the duties of a teacher.
2. An assurance from the public schools that an internship contract will be offered.

*Deadline: The student should initiate his application with the College of Education Central Advising Office (EDU 112) no later than the second week of the quarter in which he is eligible for admission.

Admission to Supervised Teaching Experience

The supervised teaching experience is a minimum of 12 credits of observation and supervised teaching in elementary or secondary schools. Time and sequence of the experience may vary among programs. (Refer to the specific program.)

Special requirements for enrollment in the supervised teaching and seminar courses are:
1. Admission to the College of Education.
2. Completion of an application for supervised teaching.
3. Completion of the professional education sequence and at least two-thirds of teaching specialization with a minimum 2.0 grade point ratio in each.
4. An overall 2.0 grade point ratio.

Application for student teaching should be made two quarters prior to term in which experience is desired, and may be obtained in the Student Teaching Office.
Quarter I applications are due by last week of Quarter III of the previous school year.
Quarter II applications are due by last week of Quarter IV of the previous school year. NOTE: Quarter I and Quarter II applications may be filed during Quarter III of previous year.
Quarter III applications are due by last week of Quarter I of the same school year.
Quarter IV applications are restricted to students who are completing
their master's degree and to those who hold a valid bachelor's degree and are seeking certification. Students in this category should file applications during the first 14 days of Quarter III of the same school year.

College Requirements for Graduation

A student to be certified by the College of Education as having completed its requirements must have earned 180 credit hours with a minimum overall grade point ratio of 2.0. An average of 2.0 or better also must be made in the student's professional education sequence and in his teaching specialization courses. Satisfactory completion of supervised teaching is required. A student must also have completed the major requirements in an approved teaching program (which includes general preparation, teaching specialization, and professional preparation) and passed the Senior Seminar (CBS 401). A minimum of 12 credits in professional courses in addition to internship and 18 credits in specialization courses must have been earned in residence. The student must complete a minimum of 45 hours after admittance to an upper level program.

SPECIFIC REQUIREMENTS

A minimum of 180 quarter hours including:

- General Preparation ........................................ 58 or 59 hours
- Professional Education Core .................................. 36 quarter hours
- Teaching Specialization ....................................... 41 to 73 quarter hours

Degree Validation and Certification Programs

VALIDATION

Baccalaureate and master's degrees received from non-accredited schools which are listed in the Education Directory of the U.S. Department of Health, Education, and Welfare may be validated. Before beginning course work for validation, the degree holder must submit a planned program to the Certification Advising Office in the College of Education. The program will consist of a minimum of 18 quarter hours. To validate a baccalaureate degree the 18 credits must be in upper division and/or graduate work with no grade below "C". To validate a master's degree the 18 credits must be in 600-level courses with no grade below "B".

CERTIFICATION

A person who has previously earned a bachelor's degree and has a desire to satisfy teaching requirements may enroll in courses in which he has met the course prerequisite.

A holder of a bachelor's degree wishing to enroll in EDC 498 and 499 should file an intent to student teach with the College of Education Certification Advising Office. Approval of the application by the Selections Committee of the College of Education and satisfactory completion of certification requirements in area of specialization including 12 hours of course work in residence as a non-degree seeker are prerequisite to registration in EDC 498 and 499.
The College of Education Association is the parent organization or umbrella for all student Education organizations. The student activities sponsor and the College of Education Association (CEA) officers make an annual budget and the approved monies are funded by the State. Student organizations Office is in EDU 309. The CEA is responsible for helping organize new College of Education organizations approved by the Student Affairs Committee. They also aid the organizations financially, provide leadership, and distribute information for projects. The College of Education Council is composed of CEA officers, three elementary representatives, four secondary representatives, two special education representatives and the Presidents of the other Education organizations. The Council meets regularly to coordinate and plan for the year.

STUDENT FLORIDA EDUCATION ASSOCIATION

The Student Florida Education Association is the professional organization that represents all the prospective teachers on the USF campus. As a member of SFEA, 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 International 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 education 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 National 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.

LIBRARY EDUCATION AUDIO-VISUAL ORGANIZATION

The Library Education Audio-Visual Organization is a professional organization for those members of the University community interested in Library education.

The USF group meets once a month and provides programs or guest speakers of interest to the campus community. In addition, LEAVO publishes a monthly newsletter for its members. Membership is open to all interested in Library education.

PHI BETA LAMBDA

Phi Beta Lambda is a business fraternity open to all students, including freshmen, expressing an interest in Business Education and who are enrolled in a Business course.

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.

Teacher Education Curricula and Programs

There are three distinct areas in the teacher education program, and all teacher candidates must meet certain minimum requirements in each. The three areas and their requirements are as follows:

1. GENERAL PREPARATION (58 or 59 quarter hours)

Six areas of General Education are required (by course work or waiver) plus the physical education requirements.

The six areas of General Education shall be:

For students in Mental Retardation or any elementary program:
1. English
2. Behavioral Science
3. American Idea
4. Humanities
5. Biological Science or Physical Science
6. Mathematics
For students in programs other than the above:
1. English
2. Behavioral Science
3. American Idea
4. Humanities
5. Biological Science or Physical Science
6. Mathematics or Foreign Language or a second science sequence.

2. PROFESSIONAL EDUCATION CORE

The required courses in the professional education core are EDF 305, EDF 307, EDC 401, EDC 498, EDC 499 or the appropriate intern course described in the Catalog, plus the Methods course(s) appropriate to the student’s specialization and an additional four quarter hours of approved education credits. Some of the areas in which the student might profitably elect courses are: Foundations, Library, Reading, and Special Education.

3. TEACHING SPECIALIZATION PREPARATION
(up to 73 credits)

Course requirements in the area of teaching specialization vary according to subject. The different specialization requirements are listed on the following pages.

A. Elementary Education

Elementary Education Majors are prepared to teach in grades one through six. Currently there are two options for completing the elementary coursework and internship requirements.

Students may pursue a program by taking required education courses during their junior and senior year with practical field experiences during their senior year. These experiences include pre-internship as a part of EDC 401 and EDE 440 and a full quarter internship assignment in a selected elementary school.

Students may pursue a program of elementary teacher preparation which provides continuous daily laboratory experiences in local schools. Students electing this program must arrange to spend a minimum of two hours daily working in a variety of classroom situations. Pre-internship and internship credit is earned during this field experience which extends over a period of five quarters.

Students entering an elementary education program must be eligible for admission to the College of Education (see admission requirements) and maintain a 2.0 average.

(1) ELEMENTARY SPECIALIZATION

The major consists of an elementary specialization sequence. The 41 hours of elementary specialization courses include EDE 409, 411, 413, 415, 417, 419, 421, 423, 424, 425.

Students are encouraged to choose a concentration in a subject taught in
the elementary school. With careful planning, a student may receive dual certification in elementary education and a secondary education field.

(2) ELEMENTARY-EARLY CHILDHOOD

Students interested in early childhood teaching, which includes children ages 3 - 8, should pursue a program leading to certification both in early childhood and elementary education. This program includes 46 hours of course work as follows: EDE 409, 413, 415, 417, 419, 425, 426, 431, 433, 529, and 531.

Students who desire to add early childhood specialization to an existing major in elementary education may complete a planned program in consultation with their adviser and with permission of and consultation with the early childhood education department.

(3) LIBRARY-AUDIOVISUAL-ELEMENTARY

Information on course work leading to dual certification in elementary and library education-audiovisual education is given in Section B-3.

B. Kindergarten through Twelfth Grade

Candidates meet teaching requirements for all grade levels from kindergarten through the senior year of high school.

(1) ART EDUCATION

The Art Education student may elect to emphasize painting, sculpture, graphics, ceramics, or photography/cinematography by selecting the appropriate courses.

The following courses constitute a program of study:

Art Education: EDA 377, 379, 441, and a total of 6 credits in field work (EDA 498).

Studio Art: ART 201, 202, 301, 20 credits from any 400-level studios, 12 credits from any 500-level studios plus nine credits of studio electives.

Art History: ART 476 plus 4 credits of art history electives.

Fine Arts: FNA 543, plus nine credits from FNA 543 or any course in Music, Theatre, or Dance.

At the time of application to upper level each Art Education student must submit slides or portfolio to Head of Department. To assist transfer students in selection of courses, they must submit work prior to or during registration.

(2) PHYSICAL EDUCATION

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. Because enrollment in this program is limited, all students must participate in a Selective Admissions procedure which includes an on-campus conference in order to be considered for admission. Students may enter this program only during Quarter I of each year and should be prepared to spend a minimum of two hours per day in a physical education teaching situation during each of the six quarters in addition to their on-campus study. The continuous field experience is in lieu of the usual quarter of full-
day internship and the teacher aid assignments. Those requirements (see admission to supervised teaching experience) which are necessary for admission to supervised teaching experience must be met before a student will be allowed to register in EDP 331, EDP 421, and EDP 431.

After applying for admission to the University, all students must apply directly to the Department on or before April 1. No student will be admitted to the program unless application has been made prior to this date.

Direct requests to: Coordinator
Professional Physical Education Program
College of Education

The following are the required courses in the physical education program of study:

(3) LIBRARY-AUDIOVISUAL EDUCATION (MULTIMEDIA)

Dual certification in Library-Audiovisual Education and Elementary Education requirements include the Education professional core, the Elementary Education Program and a total of 36 quarter hours in Library-Audiovisual courses.

The required EDL courses meet Rank III certification in Library-audiovisual services, grades K-12. These courses are EDE 413, EDL 411, 412, 419, 513, 515, 519, and choice of one of the following EDL electives: 514, 523, or 524. Field work is arranged at the need of the individual student.

(4) SPECIAL EDUCATION

Mental Retardation

A student may enter the Mental Retardation Program to prepare as a teacher of the Mentally Retarded. This planned program provides for six quarters of course work in the major area of specialization and in the required elementary area as indicated below. Upon completion of this planned program, the student will be certified in the area of Intellectual Disabilities (K-12).

Junior Year: Quarter I — EDS 311, EDF 305, and two courses chosen from *Required Elementary Courses. Quarter II — EDS 329, 322, EDF 307, and one course to be chosen from *Required Elementary Courses. Quarter III — EDF 303, EDS 312, and two courses to be chosen from *Required Elementary Courses.

Senior Year: Quarter I—EDS 423 I & II, EDC 401, and one course to be chosen from *Required Elementary Courses or **Suggested Electives. Quarter II and Quarter III — Courses below to be taken in Blocks only as indicated. Blocks “A” and “B” are interchangeable in Quarter II and Quarter III. Block “A” — CBS 401, EDC 498, EDC 499. Block “B” — EDE 531, EDS 531, and two courses of **Suggested Electives.

Speech Pathology

Prepares professionals to work with speech, language and hearing impaired children and adults. A five-year program terminating in an M.A. degree in Special Education: Speech Pathology.

**Suggested Electives: EDS 511, EDS 561, EDE 515.
The following courses, or their equivalents, constitute the course of study—EDS 311, 322, 611, 699 and/or 579, 479, 531, or PSY 431.

SAI 301, 302, 311, 312, 313, 511, 513, 571, 572, 573, 574, 575, 576, 577, 578, 579, or 675, 580, 589, 883; EDF 305, 307; EDC 401, 498; EDE 531, SSI 301; PSY 335; and the Process Core for the M.A. in Education.

Supervised clinical work in school environments is done in EDS 479 and 579.

Completion of requirements for the master's degree is required prior to certification for employment in the schools.

(5) MUSIC EDUCATION

Instrumental music students must take MUS 201, 202, 203, 301, 302, 303, 401, 402, 403; eight minor instruments outside the family of the student's major instrument; 33 credits of Performance (MUS 204, 304, 404, 504), with a minimum of 4 credits of MUS 504; three credits each in theatre arts, visual arts, and dance courses; FNA 543, 553; EDM 431, 432, 433.

Vocal music students must take MUS 201, 202, 203, 301, 302, 303, 401, 402, 403; piano; 33 credits in Performance (MUS 204, 304, 404, 504), with a minimum of 4 credits of MUS 504; three credits each in theatre arts, visual arts, and dance courses; FNA 543, 553; EDM 435, 437, 439.

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 (FAH 204); 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 before admittance to upper level; enrollment in a reading ensemble for 3 quarters (to be taken concurrently with the methods course), participation in a performing ensemble each quarter 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 (i.e. student recitals, Music Forum events, faculty recitals, and Artist Series concerts).

C. Secondary Education

Candidates are required to meet specialization requirements in broad subject fields or in subject combinations. It is also possible for prospective secondary school teachers to add elementary school certification by following an approved program. The secondary school specialization requirements can be satisfied in more than 15 subject areas in eight broad fields.

(1) CLASSICS AND ANCIENT STUDIES

Latin-English Education

CLS 301, 302, 303, 401, 402, 403, 411, 412, 413, 517, 571, and EDX 465; ENG 201, 203, 307, 312, or 305 or 306, 321 or 325, 411, 517, or 585 (Theory of Fiction), SPE 201, and EDT 447.

Latin-Modern Foreign Language Education

CLS 301, 302, 303, 371, 401, 402, 403, 411, 412, 413, 517, 571, and
EDX 465. In the modern foreign language a minimum of 26 quarter hours above the basic CBS courses are required. The required courses are: 203, 301, 303, 401, 403, 405, 406 (prefix determined by language selected), and EDX 449.

(2) ENGLISH AND ENGLISH RELATED PROGRAMS

English Education

ENG 201, 203, 307, 411, 517, 585 (Theory of Fiction), SPE 201 and 321. One from each of the following groups: ENG 305, 306, or 312; ENG 313, 335, 336, or CLS 351; ENG 321 or 325; LIN 540 or COM 301; COM 300 or 351, one 400 or 500 level English elective and one elective from English, Speech, Mass Communication, Theatre Arts, Language Literature Interdisciplinary, Philosophy, Classics and Ancient Studies, Education, American Studies and one of the following: EDR 509, EDT 531, or EDL 518. (Note: The internship is ordinarily a three-quarter continuous experience.)

English Education-Mass Communication

Com 300, 301, 330, 351, 491; one of the following: Com 321, 500, 530, 550, or a Communications broadcasting course; Eng 201, 203, 307, 411, 517, 585 (Theory of Fiction); one of the following: 312, 305, or 306; one of the following: 313, 335, 336, or CLS 351; SPE 201, 321. (Note: The internship is ordinarily a three-quarter continuous experience.)

(3) FOREIGN LANGUAGES

Foreign Language-English Education

ENG 201, 203, 312 or 305 or 306, 313 or 335 or 336 or CLS 351, 321 or 325, 411, 517 and SPE 201. If an elective is needed, SPE 321 is recommended. A minimum of 36 quarter hours in a modern foreign language above the basic CBS courses is required. The required courses are 203, 301, 303, 401, 403, 405, and 406 (prefix determined by language selected), plus a minimum of 10 additional selected hours of advanced courses in the modern foreign language (ROM 517 and ROM 518 may be used in the selected hours), plus EDX 449 and EDT 447.

Two Foreign Languages

Requires basic studies language requirements (or their equivalent). In the major language (French, German, Italian, Russian, or Spanish) the student must earn 35 upper level credit hours, and in the second language 26 upper level credit hours.

The required language courses are 203, 301, 303, 401, 403, 405, and 406 (prefix determined by language selected), plus a minimum of 10 additional selected hours of advanced courses in the major language.

Single Foreign Language

After consultation with adviser, the Dean may give permission for a student to elect a single foreign language major. A minimum of 45 quarter hours must be earned in the language beyond the basic studies requirements. Among the 45 quarter hours must be the following:

French: FRE 203, 301, 303, 305, 401, 403, 405, 406, and 516.
German: GER 203, 301, 303, 305, 401, 405, 406, and 516.
Italian: ITA 203, 301, 303, 305, 401, 405, and 406.
Russian: RUS 203, 301, 303, 305, 401, 405, and 406.
Spanish: SPA 203, 301, 303, 305, 401, 403, 405, 406, 516, and 561 or 562.
A native speaker must substitute a literature or a romance linguistics course for the first conversation course (203). Moreover, in cases where a native speaker has received his secondary and/or advanced education in his native country, he must substitute a literature or a romance linguistics course for the first composition course (301).

(4) LIBRARY-AUDIOVISUAL EDUCATION WITH A SPECIALIZATION IN ENGLISH EDUCATION

Candidates meet Rank III Library-Audiovisual requirements which certifies K-12 in school libraries. Candidates also meet the 36 hours required in the secondary English program.

Required Library-Audiovisual courses are EDL 411, 412, 419, 513, 514, 515, 519, and EDC 481—Field Work in School Libraries. Electives may be chosen with consent of the adviser. Required English courses are ENG 201, 203, 307, 312 or 305 or 306, 313 or 335 or 336 or CLS 351, 321 or 325, 411, 517 or 535 and SPE 201.

(5) MATHEMATICS

The typical program for prospective mathematics teachers consists of a minimum of 47 quarter hours in mathematics above the 100 level. The required courses are MTH 302, 303, 304, 305, 309, 323, 423, and 424. MTH 345 and 420 are strongly recommended. The student has the option of completing a Natural Science major with a concentration in mathematics. This requires a minimum of 36 quarter hours in mathematics and a minimum of 24 quarter hours in the College of Natural Sciences outside of mathematics. These latter 24 hours must be approved by the student’s adviser and must include a minimum of three quarter hours at the 300 level or above.

(6) SCIENCE

A student planning to teach science at the secondary level should complete the departmental major in the corresponding science area. Requirements for these programs are listed in the catalog under the science departments of the College of Natural Sciences. EDN 427 is recommended for biology teachers, EDN 425 is recommended for physical science teachers.

An alternate program is available in which the prospective teacher must meet the minimum requirements of the major in the Natural Sciences. This requires 36 quarter hours in the discipline of major concentration and 24 quarter hours within the Natural Sciences and outside the concentration area. These latter 24 hours must be approved by the student’s adviser and include at least one 300 level course. (Total program, 60 hours minimum.) Concentrations are available in biology, physics, and chemistry. A typical program for a biology concentration includes BIO 201, 202, 203, 331, 351, and 421 or 510. Additional selections from BOT 302 or 311, ZOO 311 or 313.

Courses outside biology would normally include CHM 211, 212, 213, 331-2, 333-4. Courses in Mathematics, Physics and Geology are also recommended.

(7) SPEECH-ENGLISH EDUCATION

Speech 201, 203, 321, 361 or 365, 491 and 492, two 5-hour upper divi-
sion Speech Electives, TAR 303, ENG 201, 203, 307, 312 or 305 or 306, 313 or 335 or 336 or CLS 351, 321 or 325, 411, 517 or 535 and EDC 515.

(8) SOCIAL SCIENCE

To teach at the secondary level the minimum requirements of a Social Science Education major must be met. All programs in the Social Science Education major specify 64 credits or more in the Social Sciences. A teaching emphasis requires a minimum of 20 credits in one discipline within an approved program which will lead to certification in the broad area of social sciences. However a student may concentrate his studies in one of the separate subject areas. Each program contains both required and elective courses which each student in consultation with his advisor will select.

D. Vocational and Adult Education

Candidates planning to teach in county-wide adult and secondary education programs, junior college associate of arts and area vocational schools, continuing education centers, model cities programs, and other vocational, adult and technical schools may pursue one or more of the following specializations:

(1) ADULT EDUCATION

Master of Arts degree program only

(2) BUSINESS AND OFFICE EDUCATION

To complete program requirements leading to Rank III certification in the broad field of Business Education, students must take 73 hours of course work in the business administration and business education areas and 37 hours of professional education courses. Requirements include ACC 201, 202, 305, ECN 201, 202, GBA 361, 371, EDV 141, 143, 251, 252, 351, 353, 361, and 461. EDV 141 and 251 may be replaced with special permission by suggested electives in education or business administration. Two special methods courses are included in the professional education sequence.

(3) DISTRIBUTIVE EDUCATION

Distributive Education is a program for those interested in becoming a teacher of marketing and distribution in schools and programs as listed above (D). To qualify to teach in the area of Distributive Education students must take 62 hours of course work. They must take 32 hours of business administration courses including ACC 201-202-305; ECN 201-202; and MKT 301-311-315. The remaining 30 hours will be in Distributive Education and approved electives, and must include EDF 303 or ECN 331, SSI 301, MTH 345; EDG 401; and EDV 506, 507. In addition, they must fulfill the state requirement of two years of distributive on-the-job work experience or complete 2100 hours of acceptable training. EDV 431, Supervised Field Experience: Distributive Education and Cooperative Education training experience are offered as suggested avenues to meet this requirement. (Acceptability of work experience will be determined by the Adult and Vocational staff at the University of South Florida.)
(4) INDUSTRIAL-TECHNICAL EDUCATION

Enrollment in the area of Industrial-Technical Education is restricted to persons with employment experience qualifying them to teach in the field. Special provision is made for students who have completed their Associate of Science Certificates in a technological specialty from one of the programs of the State System of junior colleges. Students may validate up to 45 quarter hours through an Occupational Competency Examination. In addition to the professional core, they must take 29 quarter hours in Industrial-Technical Education, including EDV 407, EDV 445, EDV 443, EDV 480, EDV 507, EDV 503 and EDV 511, plus meet general education requirements of 63 quarter hours.

(Acceptability of work experience will be determined by the Adult and Vocational staff at the University of South Florida).

Master of Arts Degree Program

ADMISSION
Candidates for admission to graduate study must present satisfactory evidence of:
1) Undergraduate grade-point-ratio on the last half of the B.A. of 3.0 (B) minimum; or GRE aptitude score—1000 minimum.
2) Any additional requirements specified by the program.
3) Receive favorable recommendation from program chairman.

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 report of Graduate Advisory Conference is to be completed in consultation with the advisor. The completed report should be filed with the Coordinator of Graduate Studies.

QUALITY OF WORK
Candidates for the master's degree must maintain a 3.0 CPR. At any time the student's CPR 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 advisors. Successful
performance on the examination enables a student to waive the course requirement, but he 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 are not eligible to take the Process Core Examinations unless they have a comparable course at the undergraduate level.

Plan I

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.

Plan II

A program of graduate studies designed for the holder of a non-education baccalaureate 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.)

Qualified persons may pursue graduate study in the following majors:

- Art Education
- Elementary Education
- English Education
- Foreign Language
- Guidance
- Humanities Education
- Library and Audiovisual
- Mathematics Education
- Music Education
- Physical Education
- Reading Education
- School Psychology
- Science Education
- Social Science Education
- Speech Education
- Varying Exceptionalities
- Speech Pathology

Special Education with programs in:

- Emotionally Disturbed
- Gifted
- Mental Retardation

Vocational Education with programs in:

- Adult
- Distributive
- Business and Office
- Industrial-Technical

Junior College Teaching:

- Astronomy
- Biology
- Business
- Chemistry
- Engineering
- English
- French
- Geography
- Geology
- History
- Mathematics
- Physics
- Political Science
- Psychology
- Sociology
- Spanish
- Speech

* Engineering bachelor's degree required.
Additional programs for Junior College teachers may be added to those listed as other instructional divisions of the University are approved to offer the master's degree. General University rules for graduate study may be found in the Graduate study section of the catalog.

PROGRAM DESCRIPTION

Master of arts degree programs consist of a minimum of 45 quarter hours, 24 hours of which must be at the 600 level. Most specialization areas include the option of a thesis of three to six credit hours.

Plan I

A. PROCESS CORE (16 hours)

Students will take a minimum of one process core course prior to the 12-hour level. All students will be required to take EDF 607, Foundations of Educational Research, as part of their graduate program. Competencies indicated by undergraduate background will determine waiver of, or enrollment in:

a) EDF 605, Foundations of Measurement
b) EDF 611, Psychological Foundations of Education; or EDF 613 Principles of Learning
c) EDF 621, Socio-Economic Foundations of Education; or EDF 623, Historical Foundations of American Education; or EDF 625, Philosophical Foundations of American Education.

B. CURRENT TRENDS COURSE IN TEACHING

SPECIALIZATION (4 hours)

C. SPECIALIZATION (27 hours minimum)

The following areas of specialization are suggested programs of study. Individual programs will vary depending on background, experience, and specific interest.

(1) Art Education

In consultation with a graduate advisor, a student may develop a program in art education with a specialization in one of three areas:

a) Studio/new media
b) Art Administration, Supervision & Curriculum Innovation
c) Research Methods for Art Education

A portfolio or slides of 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 (EDA 660, 661, 682)
Art Studio 12 credits (minimum)
Art History 3 credits (minimum)

The remainder of the credits, totaling a minimum of 54, may relate to one of the three areas of specialization. An innovative master's paper or project
developed under the guidance of a faculty committee is required before graduation.

(2) Elementary Education

This program requires full certification as an elementary education teacher for admission. Students pursuing the master's degree in elementary education are required to present credit in the following courses: EDE 603, 609, and 613. The student will choose from one of the following areas of Emphasis:

(a) Elementary Curriculum Emphasis: At least three courses must be selected from EDE 611, 615, 617, 619, and 621. Additional work is available through consent of the adviser as part of a planned program.

(b) Reading Emphasis: Three courses from EDR 530, EDE 611, EDR 631, EDR 632, and EDL 518 or EDL 605 are required.

(c) Supervision Emphasis: EDC 661, 671, and EDE 641 are required.

(d) Early Childhood: Individually planned program to include EDE 527, 529, 531, 539.

(e) Elementary School Mathematics: Individually planned program to include four courses from the following: EDE 515, 516, 615; EDN 515, 616, 617, 618, 621, 622. Additional work in related areas may be planned with the advisor.

(3) Elementary—Early Childhood Education

This program requires full certification in early childhood education for admission and recommendation of the department. Requirements in specialization and related courses total 32 credits and include EDE 519, EDE 527, EDE 539, EDE 609, EDE 629, and EDE 639.

(4) English Education

Candidates must score at least 500 on the Verbal Aptitude section of the GRE or 550 on the Advanced Literature test of the GRE.

PLAN I—Required for admission: A Bachelor's degree in English Education from a recognized institution, or Rank III certification in Secondary English from the State of Florida or other equivalent certification. Students holding a Bachelor's degree and qualified for Rank III Secondary English certification except for the required Education courses may enroll as Special students and complete certification requirements. After obtaining certification, they may apply for degree-seeking status and apply up to 12 quarter hours of relevant work in Education on this degree. Plan I requires at least 32 hours of English as specified below.

PLAN II—Required for admission: A Bachelor's degree in English from a recognized Liberal Arts institution of higher learning. Requires at least 28 hours of English as outlined below.

Course Sequence for both plans: Process Core (16 hours), EDT 631, ENG 555 (Theory of Fiction), ENG 583 (Advanced Composition for Teachers), One advanced course in linguistics, depth preparation in two English areas (minimum of two courses in each) from among the following: 1) Old English-Middle English (to 1500); 2) Renaissance (1500-1660); 3) Restoration-Eighteenth Century (1660-1780); 4) Nineteenth Century British (1780-1890); 5) American Literature (to 1920); 6) Twentieth Century British (after 1890); 7) Stylistics.
Foreign Language Education (French, German, Spanish)

Candidates for the M.A. degree in foreign language education must present satisfactory evidence of:

1. Undergraduate grade point ratio of 3.0 or better on the last half of the B.A.
2. GRE aptitude score of 1000, or GRE advanced foreign language score in upper third, or equivalent.
3. Baccalaureate degree in chosen foreign language, or in foreign language education from an accredited institution of higher learning.
4. Favorable recommendation from program chairman.

Each candidate will be assigned his major adviser in the College of Education and, to facilitate selection of appropriate foreign language courses, a co-adviser in the foreign language department of the College of Language and Literature. Since identical lists of foreign language courses are not prescribed for each candidate, and since each candidate's program is designed to satisfy the individual's needs, the specific foreign language courses are selected in consultation with the advisers. Candidates should meet with both advisers before registering for each Quarter.

The M.A. in foreign language education requires a minimum of 27 quarter hours in foreign language courses of the 500 and 600 levels. Foreign language requirements, however, are not the same for all and may go as high as 36 hours, depending upon the individual candidate's background and strengths. Unless otherwise approved by adviser, at least 21 hours in French should be on the 600 level; in German at least 15 hours should be on the 600 level; in Spanish at least 18 hours should be on the 600 level.

Guidance

The guidance program typically requires seventeen credits from the Process Core including EDF 605, EDF 607, EDF 613, and one of the following: EDF 621, 623, or 625. Additional course requirements depend upon the major emphasis in either elementary school guidance or in secondary school guidance.

**Elementary School Guidance Emphasis:** Requirements in specialization and related courses total 38 credits and include EDG 581, 603, 609, 613, 617, 621, 625, 633, and PSY 433.

**Secondary School Guidance Emphasis:** Requirements in specialization and related courses total 39 credits and include EDG 581, 603, 609, 619, 623, 627, 633, PSY 433, and an approved elective.

Plan II is available in both emphases and requires EDC 501 and EDC 691 in addition to minimum requirements.

The Guidance Program has no full-time residency requirement. Students who are gainfully employed on a full-time basis are limited to one course per quarter. Exceptions are made only with permission of the Guidance Program Committee.

Humanities Education

A teaching certificate in fine arts, language, literature, music, or in special cases in a related subject is required for admission. The program in Humanities consists of 27-45 quarter hours selected from the following with the advice of the adviser in the field of specialization: HUM 535, 536, 537, 539, 540, 541, 542, 543, 545, 581, 611, 623, 681, 683. Up to nine hours may be substituted for the above from courses outside of Humanities with the consent of the adviser in Humanities.
(8) Library-Audiovisual (Media) Education

Basic courses are required for all students with a choice of specialization for work in one of the following programs: School Library—Audiovisual (Media); Public Library; Academic Library; Special Library.

The School Library—Audiovisual program also meets Rank II certification requirements for the State of Florida.

The minimum number of graduate course work hours required in all programs is 45. In extreme cases the maximum may range to 75. Thesis hours, when elected (4-6), are in addition to course work. This maximum is only for those people with no course work in Education or in Library—Audiovisual Education at the time they are admitted to the graduate program.

Required courses for students in all Library programs are EDL 600; EDL 601; EDL 513; EDL 515 (or their equivalents as determined by the Library—Audiovisual advisor) and one audiovisual course. If EDL 513, 515, 615 and the audiovisual course were taken at an undergraduate level, with the consent of the adviser, alternative courses may be chosen as substitutes.

Administration courses recommended for each specialization are: EDL 612 (for School Libraries); EDL 621 (for District or system School Media Centers); EDL 640 (for Public Libraries); EDL 650 (for Academic Libraries).

School Library—Audiovisual Certification requires courses in materials for children and in materials for young adults. Electives may be chosen from any of the other Library—Audiovisual courses. School Library—Audiovisual students are subject to the same core Education requirements and/or waivers as all other graduate education students.

Public, Academic and Special Library students are exempted from the Education core. Among recommended courses for them in lieu of the Education core are: EDF 502 - Adolescence (Education); EDH 651 - The Junior College in American Higher Education (Education); SS1 503 - Contemporary American Culture (Liberal Arts).

With the consent of his adviser any student may choose one or more cognates from courses offered outside of the department.

Criteria for admission are those specified by the College of Education.

All students must take a comprehensive examination administered by the Library—Audiovisual Department before graduation. A Thesis or a Master's Essay may be chosen with the consent of and under the guidance of the graduate adviser. These are subject to the criteria determined by the University.

(9) Mathematics Education

This program requires a minimum of 51 quarter hours. Before the 12-hour level the student must demonstrate that he has the competence in mathematics to undertake the program. MTH 405, 406 and any MTH course from the 500 and 600 level and above may be included in the planned program.

(10) Music Education

Programs in both instrumenttal and vocal music are offered. At least 27 hours are taken in one of these areas. A placement examination is required of all new registrants in musical styles. Each candidate must meet the undergraduate level of piano proficiency before the quarter in which he expects to graduate. Participation in ensembles is required for at least three quarters. Three plans are available to the candidate: 48 hours plus thesis, 51 hours plus recital, or 54 hours without thesis or recital.

Vocal Majors: 7 to 14 credits in music education, including EDM 601, 635,
and 614; 4 to 8 credits in music literature, including MUS 603; at least 4 credits in music theory; and at least 4 credits in applied music.

**Instrumental Majors:** 7 to 14 credits in music education including EDM 601, 603, 617, 633; 4 to 8 credits in music literature, including MUS 601; at least 4 credits in music theory; and at least four credits in applied music.

(11) **Physical Education**

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 EDP 600, Professional Assessment, is required of all students. Preferably this course will be completed during the first quarter of Study in the program and not later than the completion of eight quarter hours of credit in the physical education curriculum area.

(12) **Reading Education**

Specialization in Reading Education shall include a minimum of 36 hours selected from EDE 609 or EDR 509, EDR 631, 632, 633, 634, 635, EDF 605, 617 and EDL 518. (Candidates who have had a children’s literature course at either graduate or undergraduate level may take an elective in lieu of EDL 518.) Suggested electives are ENG 517, EDÉ 611, EDE 531, EDS 571, EDS 574, EDS 676, EDC 661, PSY 613.

(13) **School Psychology**

The School Psychology program is offered jointly with the Department of Psychology in the College of Social Sciences.

**Plan I**

Course Requirements—except where equivalent courses are transferred into the program, the student must complete the following minimum quarter hours: 8 hrs. in Statistics and Research Design; 26 hrs. in Educational and Psychological Foundations; 9 hrs. in Assessment Techniques; 4 hrs. in Consultation Techniques; 4 hrs. in Field Experience. Specific courses may be obtained from the School Psychology program.

*Research Competency*-Each student must show competency through the planning, execution and write-up of a piece of research resulting in either a thesis or colloquium paper.

*Internship*-A full-time internship of two academic quarters is required.

**Plan II**

Students without educational certification are required to take EDC 501. For the School Psychology program, the internship requirement for Plan II is the same as that for Plan I.

(14) **Science Education**

Concentrations in Biology, Chemistry, Marine Science, or Physics are available in a cooperative program with the College of Natural Science. In each instance before admission to the degree program the student must satisfy the Biology, Marine Science, Physics, or Chemistry adviser that he has the competence to undertake the program. Specialization shall consist of at least
27 quarter hours approved by the adviser in the discipline. Satisfactory completion of the program must be certified by both the College of Natural Science and the College of Education.

(15) Social Science Education

Advanced training for the purpose of becoming better teachers in grades 7-12. Plan I is for certified teachers, and Plan II, for those with a social science baccalaureate but are not certified to teach.

Plan I

For teachers who are certified to teach general secondary social studies or one of the separate subject areas.

Each student in consultation with his adviser will select at least seven courses at the 500 or 600 level from courses offered in the College of Social and Behavioral Sciences. Three or more of these courses must be at the 600 level.

Plan II

Students will complete all of the Plan I requirements, take EDW 461, EDC 501, and EDC 691, plus any other social science courses which the Social Science Education Department deems necessary for fulfilling minimum state certification requirements.

(16) Special Education

The Emotionally Disturbed

The purpose of this program is to train educators for emotionally disturbed children. An individualized program is available under both Plan I, for certified and experienced teachers, and Plan II, for those with a non-education baccalaureate.

Plan I

Through a Plan I program, a certified, experienced teacher may satisfy the requirements for graduation within four quarters. Of the minimum 45 hours, at least 27 hours are allocated to the area of specialization. EDS 531, 610, 611, 632, 633, and 639, or equivalents, are required of all students. Additional courses, including electives, are planned jointly by the student and his adviser.

Plan II

The student with a non-education baccalaureate may meet initial certification requirements through a Plan II program. The individually designed course of study will include the minimum 27 hours in the area of specialization (as outlined above) plus such other courses planned jointly by the student and his adviser, which may be necessary to meet certification requirements in the student’s chosen subject area. This program will require more than four quarters of attendance for completion.

The Gifted

The Gifted Child Teacher Training program provides advanced training for experienced teachers to work with gifted children and to work with other teachers on a consultant or teacher-leader basis.
There is also an inexperienced teacher-training program which is designed to prepare Liberal Arts majors or non-certified education majors to work with classrooms of gifted children.

Emphasis is on the development of subject matter specialization and specific skills to:
1. identify the gifted,
2. make an individual diagnosis of cognitive and affective strengths and weaknesses, and
3. modify the educational program to develop the gifted child's potential.

**Plan I**

Through a Plan I type of program an experienced, certified teacher can anticipate preparing for teacher-consultant roles in the area of the gifted in four quarters.

A minimum of 28 credit hours in the area of specialization is required. Included among the courses required are EDS 550, 551, 559, 611, 653-654 and EDC 552.

An individually tailored liberal arts sequence of 14 quarter hours is also a requirement of the program.

**Plan II**

An individual with a Liberal Arts undergraduate major may prepare as a teacher-consultant of the gifted through Plan II.

The student will be expected to take a minimum of 28 quarter hours in the area of specialization. In consultation with his adviser, he will choose from the following: EDS 550, 551, 559, 611, 653-654 and EDC 552.

An individual may meet initial certification through Plan II by taking EDC 501, an appropriate methods course and completion of an internship in a liberal arts area.

**Mental Retardation**

The course of study is designed to prepare the student to become a more effective teacher or supervisor of teachers for the retarded.

It is highly recommended by the Department of Mental Retardation that any student who is about to apply for Graduate work in the area of Mental Retardation contact that office for advising purposes before any courses are taken or application made for admission.

**Plan I**

Through a Plan I Program, a certified teacher may satisfy the requirements for graduation within four quarters.

Process Core Requirements (16 hours).

At least 30 hours are allocated to the area of specialization with an emphasis on Mental Retardation — Required: EDS 620, 621, 622, (12 hours) and Written Comprehensive Examination. Select 18 hours from the following: EDS 529, 531, 541, 511, 550, 560, 561, 562, or 676.

**Plan II**

The student with a non-education baccalaureate may meet initial certification requirements through a Plan II Program as follows:

(1) Basic Elementary Required: EDE 409, EDS 322, EDS 423 1.

EDS 423 1 may be counted for Master Credit.
(2) Process Core Required (16 hours).

(3) Required Courses in Mental Retardation: (38 hours)
EDC 501, EDC 691, EDS 610, 620, 621, 622, 676, 529.

(4) Electives: (Select eight hours)
EDS 611, 613, 531, 541, 550, 560, 561, 562.

(5) Written Comprehensive Examination.

**Varying Exceptionalities**

An interrelated course of study is planned for advanced training to prepare teachers and supervisors of teachers of varying exceptionalities.

**Plan I**

A minimum of 30 quarter hours in the area of specialization is requisite to successful completion of the Plan I program for teachers of Varying Exceptionalities. Individualized program will include courses to be taken from the following: EDS 531, 541, 550, 551, 610, 612, 620, 632, 649, 660, 662, 676, and PSY 613. Additional courses, including electives, are planned jointly by the student and his advisor.

**Plan II**

Individual with a non-education baccalaureate can prepare for the teaching of Varying Exceptionalities through Plan II. Ordinarily, it will take more than one academic year to complete the Program. Individually designed course of study will include a minimum of 61 credit hours to include 45 credit hours selected from special education courses with an emphasis on Varying Exceptionalities.

**Speech Pathology**

A five-year program terminating in an M.A. in Special Education: Speech Pathology is available to undergraduate students. See Undergraduate Section. Students who already have a baccalaureate degree in Speech Pathology or a related area (such as Speech, English, Psychology, Education, Nursing, and others) are encouraged to enter the graduate program in Speech Pathology. They must take the requirements of the fifth year of the Speech Pathology sequence. The prerequisites to the courses in the fifth year may be waived by demonstration of proficiency or by electing suitable substitutes.

Requirements of the fifth year are; EDS 531 or PSY 431, EDS 611, SAI 681 or EDC 699, SAI 576, 577, 578, 580, a minimum of three 600-level SAI courses, and the Process Core for the M.A. in education. In addition, six hours must be taken in SAI 698: Practicum in Speech Pathology.

Planning of such a graduate program must be approved by a speech pathology adviser.

**(17) Speech Education**

Admission requires a score of at least 500 on the Verbal aptitude section of the GRE; a bachelor's degree from a recognized institution; and approval of the Speech Education faculty.

Course requirements range from 53 to 61 hours: Plan I process core requirements; 10 hours in speech education; and 35 hours in speech divided as
follows: 15 hours in rhetoric and public address, 10 hours in oral interpretation of literature, 5 hours in speech science, and 5 hours of graduate seminar in speech.

Each candidate for the M.A. in Speech Education must successfully complete a written and oral comprehensive examination.

(18) Vocational Education

Adult Education

1) In consultation with the graduate adviser, a program will be planned which will include a minimum of 45 quarter hours. Specialization requirements of 27 quarter 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 individuals background of experience: EDV 445, 503, 506, 631, 661, 671, and 687.

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.

Business and Office Education

1) A minimum of 12 quarter hours in the specialization area of Business and Office Education. Individualized programs will include courses to be taken from the following: EDV 503, 506, 507, 621, 631, and EDV 687. Any deficiencies needed for business teacher certification must be included in the Master's candidate's program.


3) Selected courses in one related area such as Guidance, Special Education, Business Administration, Junior College, Administration or Supervision (4-12 quarter hours).

Distributive Education

1) Appropriate College of Business Administration courses in marketing, management, economics, finance, and accounting for Distributive Education teacher certification (22 quarter hours maximum).

2) Distributive Education—minimum of 12 quarter hours from EDV 507, 506, 445, 511, 671, 661, 431, 651, 480, 621, 641, 504, 503.

3) EDV 687 Seminar in Distributive Education Research.

4) Selected courses in a related area such as Business Administration, Administration, Supervision, Guidance, Special Education, and Junior College (4-12 quarter hours).

Industrial-Technical Education

Before admission to a degree program, a student must have met certifiable vocational or industrial work qualifications. In addition to the Process Core requirements, EDV 631, 651, and 687 are specialization requirements. Courses totaling a minimum of 45 quarter hours will be a part of the student’s program which he will plan with the graduate adviser for industrial education.
Related electives (0-16 quarter hours). See areas of specialization listed above. The Plan II program in Vocational and Adult Education is designed primarily for non-certificated teachers. The candidate is required to complete additional professional education courses—usually EDC 501 and EDC 691, 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.

Plan II

The program outlined below is designed for the person who has completed a bachelor's degree with little or no work in professional education and who desires to earn a master's degree and meet certification requirements for secondary school teaching. Completion of an undergraduate major, or its equivalent, in the intended teaching field is assumed.

A. PROCESS CORE (21 Hours)
   - EDC 501, Curriculum, and Instruction: Secondary
   - EDF 605, Foundations of Measurement
   - EDF 607, Foundations of Educational Research
   - EDF 611, Psychological Foundations of Education
   - EDF 621, Socio-Economic Foundations of Education; or
   - EDF 623, Historical Foundations of American Education; or
   - EDF 625, Philosophical Foundations of American Education.

B. CURRENT TRENDS COURSE IN TEACHING SPECIALIZATION (4 hours)

C. SPECIALIZATION (minimum 27 hours)
   An individually planned graduate major in the College of Liberal Arts in the teaching field or in an appropriate College of Education program for K-12 specialists. See Specialization section under Plan I, above, for description of major requirements.

D. INTERNSHIP (9 hours)
   Enrollment will be in EDC 691 which involves planned observation and supervision by a member of the University faculty and a secondary school staff member. In-service teachers are required to complete this assignment over two quarters.

Junior College Program

The University of South Florida has developed a program for junior college teachers which leads to the master of arts degree and Florida State Department of Education certification at this level. The College of Education, in close cooperation with the other colleges on the campus, has formulated the program.

The Junior College program includes:
A. ADMISSION AND ADVISING

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.

B. THE PROGRAM

Consists of a minimum of 45 quarter hours, plus an internship of (0-9) hours if deemed necessary.

1. Specialization (36 hours)

Typically, the student's program will include 36 quarter 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 (9-18 hours)

(a) Courses in Higher Education (9 hours)
   EDH 651, The Junior College in American Higher Education (4)
   EDH 653, Seminar in College Teaching (5)
(b) EDC 691, Internship (0-9 hours)

Those students who have not met the internship requirement for certification (up to nine hours credit in Junior College internship or two years or more of successful full-time teaching experience) must complete EDC 691, Internship. Typically, the internship will consist of full-time supervised teaching for two quarters. 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 committee.

Those students who have met an internship requirement or who have had
two years or more of successful full-time teaching experience prior to admission to the program will not normally be required to take EDC 691, Internship. This does not preclude the possibility of an internship for less than 9 quarter hours if the advisers deem it to be desirable.

Ed. S. Program

The Education Specialist (Ed.S.) program has been developed to provide for state-approved Rank 1-A certification.

This course of study offers specialization in Elementary Education. It is not intended to be a research degree.

The Ed.S. degree is designed to complement an existing competence in a teaching field or service area of education. The program is not intended to provide initial exposure to any field of study. The applicant to the program will be expected to have certification, experience, or post-baccalaureate study in the specialization.

Inquiries about this program should be directed to the Coordinator of Graduate Admission and Advising, College of Education, University of South Florida.

Ph. D. Program

The Doctor of Philosophy degree is available in Education with specialization in Elementary Education. The general admission and degree requirements for the Ph.D. appear elsewhere in this Bulletin. All general requirements must be met as well as special requirements within divisions of the College of Education. Such requirements for full admission to doctoral study include, among other things, evidence of high scholastic achievement both at the baccalaureate and master's level, adequate professional experience appropriate to the student's field of interest, a satisfactory measure of verbal ability as indicated by the Miller Analogies Test and a satisfactory grade on an essay examination over the candidate's major field for the master's degree. A student's specific program is planned with his advisory committee.

More detailed information regarding specific fields of interest and graduate fellowships may be obtained by writing the Coordinator of Graduate Admissions and Advising, College of Education, University of South Florida.

Special Funded Programs

A number of programs are supported by contracts or grants by federal agencies or by foundations. These programs generally provide an innovative approach to existing or developing College programs and usually provide assistantship or scholarships for students. Some programs presently in operation are:

TTT (Training of Teacher Trainers). Supported by USOE. Provides special study of problems of the disadvantaged to improve effectiveness of public school supervisors or administrators or college instructors who work with teacher trainers. May lead to advanced graduate degrees in Special Education or Elementary Education upon admission to approved programs.
Teacher Corps-Peace Corps. Supported jointly by Teacher Corps in USOE and by Peace Corps. Two programs aimed toward preparing mathematics and science teachers for middle schools in intercultural areas. The combined Teacher Corps-Peace Corps project includes internships in inner city schools of the Tampa Bay area and in Ghana. May lead to Master's degree and certification.

Special Education Training Programs. Supported by Bureau of the Handicapped, USOE. This program provides grants to improve and expand the nation's resources for educating handicapped children. The funds are used to prepare teachers and other professional personnel in special education for the handicapped. Stipends are provided to teachers for such areas as Emotionally Handicapped, Mentally Retarded, Speech impaired, etc.

Potentially Handicapped. Supported by Bureau of Education Professions Development, USOE. Prepares teachers of disadvantaged young children whose background indicates high risk for emerging handicaps. Leads to Master's degree and certification in Elementary Education and/or Varying Exceptionalities.

COP (Career Opportunity Program). Supported by USOE. Cooperative program with Hillsborough County Schools and Hillsborough Community College for assisting Teacher Aides to complete studies for undergraduate degree in Education and certification at Rank III level.

Technical Assistance for Foreign Educators. Supported by Technical Assistance Branch, USOE and Agency for International Development, U.S. Department of State. Graduate and Undergraduate programs are provided for educational leaders of foreign countries. Programs are planned to meet special needs of educators in underdeveloped areas of the world.

Supplementary Headstart Training. Supported by USOE. Provides undergraduate and graduate training in Early Childhood Education for teachers of the disadvantaged.

Upward Bound. Supported by U.S. Office of Education. Pre-college program for secondary school students with academic potential from economically deprived backgrounds. Purpose is to assist students in developing goals and skills necessary to obtain entrance and achieve success in post-secondary training programs or institutions of higher education.

Leadership Training Institute. Supported by the U.S. Office of Education. The LTI acts as liaison between the USOE and federally-funded projects in the field dedicated to the reform of teacher education.
College of
ENGINEERING

General Information

Our modern technological society has placed many demands on both the engineer and the engineering profession. The engineer has always had the responsibility and obligation to use knowledge in his field for the benefit of mankind. The more recent impact of science and technology on our life style and even our existence has placed a new sense of responsibility on both those who are providing engineering education and those who are being educated. The College of Engineering takes a modern approach to the education of tomorrow's engineers and those programs under its direction which are vital to our technological progress by providing for individual development both in technical competency and human values.

The College of Engineering offers a number of programs designed to meet the diverse requirements of our technological society. The degrees or services associated with these programs are as follows:

Engineering

- Bachelor of Science in Engineering (Professional Program)
- Master of Science in Engineering (Thesis or Project)
- Master of Engineering (Non-Thesis)

Applied Science and Technology

- Bachelor of Science in Engineering Science
- Master of Science in Engineering Science
- Doctor of Philosophy in Engineering Science (Florida State University Transfer)
- Bachelor of Engineering Technology
- Computer Science Service Courses (Undergraduate and Graduate Minor)

The above spectrum of program offerings provides the prospective student with a choice of avenues depending upon his own interests and capabilities for a significant technological contribution. These programs are described in more detail under their respective catalog headings.

Students interested in particular programs offered by the College of Engineering should address their inquiries to the College marked attention of the following:
Area of Interest
Engineering (Professional Program)
Engineering Science
Engineering Technology
Teachers—Engineering Concepts
Computer Science Service Courses

Contact
Specific Department or Office of Dean
Coordinator for Engineering Science
Coordinator for Engineering Technology
Regional Center—Engineering Concepts
Curriculum Project
Department of Industrial Systems

Engineering

The Engineering programs of the College have been developed with an emphasis in three broad groupings 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 Master of Science in Engineering. Other students interested more in operational responsibilities may wish to complete their initial engineering education at the baccalaureate level. For this purpose a Bachelor of Science in Engineering is offered which provides 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.

While the baccalaureate degree is considered the minimum educational experience for participating in the Engineering Profession, 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 in ever increasing numbers in order to obtain the information and training necessary to meet tomorrow's technological challenges. All are faced with the continuous problem of refurbishing and updating their information and skills and most are obtaining advanced information by means of seminars, special institutes and other such systems designed for this purpose.

The Bachelor of Science in Engineering degree program requires 201 quarter hours and the five year program leading to the Master of Science in Engineering degree is an integrated program of 246 quarter hours. Both programs have as their foundation a 152 quarter 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 a specialization option under the direction of one of the administrative departments of the College. Those options which are available and the administrative unit responsible for the options are as follows:

<table>
<thead>
<tr>
<th>Option</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td>All Departments</td>
</tr>
<tr>
<td>Chemical</td>
<td>Energy Conversion &amp; Mechanical Design</td>
</tr>
<tr>
<td>Electrical</td>
<td>Electrical &amp; Electronic Systems</td>
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<tr>
<td>Mechanical</td>
<td>Energy Conversion &amp; Mechanical Design</td>
</tr>
<tr>
<td>Industrial</td>
<td>Industrial Systems</td>
</tr>
<tr>
<td>Structures, Materials &amp; Fluids</td>
<td>Structures, Materials &amp; Fluids</td>
</tr>
</tbody>
</table>
Preparation for Engineering

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, 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, many of whom will continue for advanced study.

Junior college students planning to transfer to the University of South Florida’s engineering program at the junior level should plan to graduate from their respective junior colleges, thus completing their general education requirements and as much of the mathematics, science and engineering core course work as is available to them. The University’s College of Engineering is available to assist junior colleges in the development of course material and in the training of staff for their offering of applicable core pre-engineering course work.

Some prospective students who are considering engineering at the University of South Florida may lack certain preparation in high school and may elect to follow several programs which will assist them in overcoming their deficiencies. One alternative might be that such a student would select a summer program at the University of South Florida to update himself 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 at the University of South Florida. For financial or other reasons, students may wish to avail themselves of the state’s system of junior colleges which offer a wide range of course work, and many of which offer full programs in pre-engineering (first two years’ course work).

Engineering Advising

Effective pursuit of engineering 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 that each student plans his curriculum with, and has it approved by, a faculty adviser in the College of Engineering.

Students new to the University and students transferring from other colleges within the University must contact the Coordinator of Engineering Advising in the Dean’s office for a faculty adviser assignment prior to, or during their first registration. Students who have made a decision regarding the engineering option they plan to follow are 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 by faculty members in the Dean’s office.

The student and his 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 his adviser with the concurrence of the new adviser and the Dean’s office. The advisers maintain the College of Engineering’s student records. A student transferring within the University must request that his records be sent to the College of Engineering.

Departments & Programs

The supervision of the academic programs for the College is the function of four administrative departments together with several coordinators. The
departments are responsible for the professional program in engineering with the coordinators responsible for those special programs in Engineering Science, Engineering Technology, and Engineering Concepts. Each department is responsible for programs, faculty, laboratories and students assigned to it.

**ELECTRICAL AND ELECTRONIC SYSTEMS**

The programs of this department provide undergraduate and graduate study in all areas fundamental to Electrical Engineering and the electrical sciences; circuit analysis and design, electronics, communications, electromagnetics, control, solid state, system analysis, electronic computer design, etc.

**ENERGY CONVERSION AND MECHANICAL DESIGN**

This department offers undergraduate and graduate instruction pertinent to the analysis and design of machines and systems needed by our modern society. In addition to 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, 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.

**INDUSTRIAL SYSTEMS**

Undergraduate and graduate programs are provided by this department relative to the design, evaluation, and operation of a variety of industrial systems ranging from manufacturing plants to service industries. Such topics as plant facilities design, production control, measurement and methods design, economic evaluation, etc. are studied along with computers, operation research and statistical techniques. Industrial Engineering programs are available as well as advanced work systems analysis and Engineering Administration.

**STRUCTURES, MATERIALS AND FLUIDS**

Contemporary problems in engineering tend to be multidisciplinary, requiring understanding and skillful application of the principles of structures, engineering materials, fluids, and solid mechanics. These subjects are unified in one department—Structures, Materials, Fluids (SMF). Course work related to Civil Engineering, Engineering Mechanics, and Materials Science curricular elements are offered to students in both undergraduate and graduate programs. Topics included are structural analysis and design, stressed-surface structures, structural stability, corrosion, polymers, fracture mechanics, water resources, aerodynamics, vibrations, continuum mechanics, soil mechanics, x-ray diffraction, hydrospace engineering, gas dynamics, wave propagation, numerical methods.

**Engineering Core and Specialization**

Both the four-year and the five-year curricula of the College of Engineering are founded on a common core of course work which is required of all students and provides for a broad education as well as a foundation for the work
in the several areas of specialization. Course work identified as 400 or higher is considered as professional level work and students enrolling for this work must have either been admitted to the professional program or have received permission from the Office of the Dean to attempt this work.

The core and specialization requirements for both the master's degree and the baccalaureate program are as follows:

1. Core Requirements (152 quarter hours minimum)

   Basic Studies Core Requirements (35 quarter hours minimum)

   Prospective engineering majors must take CBS 101-102, 301-302, any two of CBS 308-315-316, 317, and nine quarter hours of Behavioral Science, CBS 201, 202, 203. Freshmen and sophomores will normally fulfill the additional basic studies requirements in Physical Science and Functional Mathematics by completing the mathematics and science core course work required in the engineering program.

   Mathematics and Science Core Requirements (49 quarter hours minimum)

   The student must take MTH 302, 303, 304; CHM 211, 212, 213; PHY 301, 302, 303, 304, 305, 306. Students must also take MTH 305, 401, and PHY 323 or appropriate individual substitutions as approved by their College of Engineering adviser.

   Engineering Core Requirements (56 quarter hours minimum)

   The prospective engineering major must take EGB 101, 102, 203, 231, 232, 311, 312, 313, 321, 322, 325, 337, 340, 341, 342, 343.

   Humanities or Social Science Core Requirements (12 quarter hours minimum)

   The student must take nine quarter hours of approved electives at the 200 level or above from these areas, and he must also take the Senior Seminar (CBS 401) required of all degree candidates.

2. FOUR YEAR PROGRAM (Baccalaureate Degree)

   The program consists of a minimum of 152 quarter hours of core course material plus 49 quarter hours of specialization. The degree, Bachelor of Science in Engineering, is awarded upon successful completion of the program with options designated in the respective area of specialization.

   a. General Option

   All professional departments may offer the general option which consists of 49 quarter hours of course work individually arranged by the student with the approval of his adviser. This option is used where a student wishes to deviate from a prescribed disciplinary option utilizing course work from several different disciplines both within and without the College of Engineering.

   b. Option in Chemical

   EGR 315  Heat Trans I  4
   CHM 333  Org Chem II  3
<table>
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<tr>
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<tr>
<td>CHM 334</td>
<td>Org Chem Lab</td>
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<td>EGR 348</td>
<td>Eng Meas I</td>
<td>3</td>
</tr>
<tr>
<td>EGR 350</td>
<td>E C Lab I</td>
<td>2</td>
</tr>
<tr>
<td>EGR 411</td>
<td>Thermo IV</td>
<td>3</td>
</tr>
<tr>
<td>EGR 450</td>
<td>E C Lab II</td>
<td>2</td>
</tr>
<tr>
<td>EGR 471</td>
<td>Chem Proc Calc</td>
<td>3</td>
</tr>
<tr>
<td>EGR 472</td>
<td>Transport Phenom</td>
<td>4</td>
</tr>
<tr>
<td>EGR 473</td>
<td>Chem Proc Prin I</td>
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<tr>
<td>EGR 474</td>
<td>Chem Proc Prn II</td>
<td>3</td>
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<tr>
<td>EGR 576</td>
<td>Reactor Dynam</td>
<td>5</td>
</tr>
<tr>
<td>EGR 577</td>
<td>Design Case Prob</td>
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**c. Option in Electrical**

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<tbody>
<tr>
<td>EGE 310</td>
<td>Network Analysis &amp; Design I</td>
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<td>EGE 410</td>
<td>Network Analysis &amp; Design II</td>
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<tr>
<td>EGE 411</td>
<td>Linear Systems Analysis</td>
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<tr>
<td>EGE 320</td>
<td>Electronics I</td>
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<tr>
<td>EGE 420</td>
<td>Electronics II</td>
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<tr>
<td>EGE 421</td>
<td>Communications Circuits</td>
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</tr>
<tr>
<td>EGE 330</td>
<td>Fields &amp; Waves I</td>
<td>3</td>
</tr>
<tr>
<td>EGE 430</td>
<td>Fields &amp; Waves II</td>
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<td>EGE 499</td>
<td>Design Project</td>
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<tr>
<td>EGE 301</td>
<td>Lab No. 1 (Cir. I)</td>
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<td>EGE 302</td>
<td>Lab No. 2 (Electronics I)</td>
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<td>EGE 303</td>
<td>Lab No. 3 (Circuits II)</td>
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<td>EGE 404</td>
<td>Lab No. 4 (Electronics II)</td>
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<td>EGE 405</td>
<td>Lab No. 5 (Electronics III)</td>
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<td>EGE 406</td>
<td>Lab No. 6 (F &amp; W)</td>
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<tr>
<td>EGE 440</td>
<td>Linear Control Systems</td>
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<tr>
<td>EGE 441</td>
<td>Control Lab</td>
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<td>EGE 460</td>
<td>Electromechanics I</td>
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<td>EGE 461</td>
<td>Electromechanics Lab I</td>
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**d. Option in Mechanical**

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<tbody>
<tr>
<td>EGR 311</td>
<td>Thermodynamics III</td>
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</tr>
<tr>
<td>EGR 315</td>
<td>Heat Transfer I</td>
<td>4</td>
</tr>
<tr>
<td>EGR 326</td>
<td>Dynamics of Mechanical Systems</td>
<td>3</td>
</tr>
<tr>
<td>EGR 348</td>
<td>Engineering Measurements I</td>
<td>3</td>
</tr>
<tr>
<td>EGR 350</td>
<td>Energy Conversion Lab I</td>
<td>2</td>
</tr>
<tr>
<td>EGR 413</td>
<td>Fluid Machinery</td>
<td>4</td>
</tr>
<tr>
<td>EGR 428</td>
<td>Machine Analysis &amp; Design</td>
<td>3</td>
</tr>
<tr>
<td>EGR 429</td>
<td>Mechanical Design I</td>
<td>3</td>
</tr>
<tr>
<td>EGR 441</td>
<td>Analog Computers I</td>
<td>3</td>
</tr>
<tr>
<td>EGR 450</td>
<td>Energy Conversion Lab II</td>
<td>2</td>
</tr>
<tr>
<td>EGR 453</td>
<td>Measurements &amp; Control</td>
<td>3</td>
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### e. Option in Industrial

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>EGS 401</td>
<td>Indust. Systems</td>
<td>3</td>
</tr>
<tr>
<td>EGS 402</td>
<td>Indust. Process</td>
<td>3</td>
</tr>
<tr>
<td>EGS 403</td>
<td>Prod. Design I</td>
<td>3</td>
</tr>
<tr>
<td>EGS 404</td>
<td>Prod. Design II</td>
<td>3</td>
</tr>
<tr>
<td>EGS 405</td>
<td>Prod. Control I</td>
<td>3</td>
</tr>
<tr>
<td>EGS 406</td>
<td>Prod. Control II</td>
<td>3</td>
</tr>
<tr>
<td>EGS 407</td>
<td>Engr. Val. II</td>
<td>3</td>
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<tr>
<td>EGS 409</td>
<td>Plant Design I</td>
<td>4</td>
</tr>
<tr>
<td>EGS 441</td>
<td>OR I</td>
<td>3</td>
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<tr>
<td>EGS 442</td>
<td>OR II</td>
<td>3</td>
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<tr>
<td>EGS 461</td>
<td>Statistics I</td>
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<tr>
<td>EGS 462</td>
<td>Statistics II</td>
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<td>EGS 565</td>
<td>S.Q.C.</td>
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Approved Technical Electives

Total: 49 Qtr. Hours

### f. Option in Structures, Materials & Fluids

#### Departmental Core

<table>
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<tbody>
<tr>
<td>EGX 401</td>
<td>Structures I</td>
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<tr>
<td>EGX 402</td>
<td>Materials II</td>
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<tr>
<td>EGX 409</td>
<td>Senior Research/Design Project</td>
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<tr>
<td>EGX 503</td>
<td>Fluid Mechanics II</td>
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<td>EGX 504</td>
<td>Experimental SMF I</td>
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<tr>
<td>EGX 505</td>
<td>Engineering Materials III</td>
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<tr>
<td>EGX 509</td>
<td>Senior Research/Design Project</td>
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Total: 24 Qtr. Hours

#### 1. Area of Concentration (Structures)

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<tbody>
<tr>
<td>EGX 411</td>
<td>Concepts of Structural Design</td>
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</tr>
<tr>
<td>EGX 420</td>
<td>Concepts of Materials Engineering</td>
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</tr>
<tr>
<td>EGX 410</td>
<td>Structures II</td>
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<tr>
<td>EGX 511</td>
<td>Structures III</td>
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Approved Technical Electives

Total: 25 Qtr. Hours

#### 2. Area of Concentration (Materials)

<table>
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<tr>
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<th>Credits</th>
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<tbody>
<tr>
<td>EGX 420</td>
<td>Concepts of Materials Engineering</td>
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</tr>
<tr>
<td>EGX 421</td>
<td>Processes in Materials Engineering</td>
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<tr>
<td>EGX 520</td>
<td>Engineering Materials III</td>
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<td>EGX 521</td>
<td>Engineering Polymers</td>
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<td>EGX 522</td>
<td>Corrosion</td>
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Approved Technical Electives

Total: 25 Qtr. Hours

#### 3. Area of Concentration (Fluids)

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<tr>
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<th>Course Title</th>
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<tbody>
<tr>
<td>EGX 530</td>
<td>Fluid Mechanics III</td>
<td>4</td>
</tr>
<tr>
<td>EGX 538</td>
<td>Aerodynamics</td>
<td>3</td>
</tr>
</tbody>
</table>
3. FIVE YEAR PROGRAM (Master’s Degree)

This program consists of a minimum of 152 quarter hours of core course material plus 94 quarter hours of specialization including a maximum of 18 hours of design or research 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 and additional calendar time is available for design or research projects.

The program leads concurrently to both the Master of Science in Engineering and the Bachelor of Science in Engineering 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 his full five years, the baccalaureate can be awarded. Either an engineering report or a research thesis is required. See later section relative to master's program for additional information.

Other Requirements for Engineers

HUMANITIES AND SOCIAL SCIENCE REQUIREMENTS

While the engineering undergraduate student is expected to complete certain requirements during his first two years of study which are directed toward the humanities and social sciences, and which are fulfilled by the completion of his basic studies requirements at the University (or general education requirements at other institutions), the University of South Florida expects more of its prospective engineering graduates than this minimum. The engineer must not only be a technically competent individual, he must also be a person who can understand, adjust and contribute to his social environment. The undergraduate engineering program at the University requires, in addition to the general education program, twelve credit hours of study in the humanities and social sciences during the engineering student’s junior and senior years.

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. This examination will be administered by the faculty of the University's English program and stu-
Students evidencing a deficiency will be required to initiate the necessary corrective programs, with the assistance of their advisers. Correction of any deficiency must be effected prior to recommendation of the student for graduation by the faculty of the College.

**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 the ability to apply mathematics will be required to take remedial course work in engineering analysis 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.

**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. 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 have been prepared by the student's adviser and approved by the academic committee of the College.

**REQUIREMENTS FOR GRADUATION**

In addition to the completion of the course work and/or project requirements of the respective programs 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". The awarding of a baccalaureate degree requires a minimum average of 2.0 or "C" for all work attempted while registered in the College. Students attempting but not completing their professional master's requirements may elect to request the awarding of the bachelor degree.

**Engineering Master's Degree Programs**

The College of Engineering offers three professionally oriented programs leading to a degree at the master's level. These are the post-baccalaureate Master of Science in Engineering program, Master of Engineering Program, and the Engineering Five-Year Master of Science 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 outlined below and in addition any special requirements specified by the departments and reported to the Dean of the College. Other requirements may be considered.
Post-Baccalaureate Master of Science in Engineering

This graduate program of the College is designed for those students wishing advanced study which is research or design oriented.

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 remedial work in engineering will be necessary.

2. A minimum total score of 1000 on the verbal and quantitative portions of the Graduate Record Exam 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 his departmental adviser a list of courses and performance criteria for his admission.

PROGRAM REQUIREMENTS

1. A minimum of 45 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 he will be placed on a probationary status and must obtain a directed program from his adviser approved by the Dean, prior to continuing his 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 9 credits may be used to fulfill his degree requirements. The course 699 with the appropriate departmental prefix is to be used for this purpose.

5. If a thesis is submitted it must be in accordance with the Handbook for Graduate Theses 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.

The students working on design and research projects must register for a minimum of 3 credits of course 599 or 699 with the appropriate departmental prefix during each quarter he uses the facilities and laboratories of the College whether or not he has accumulated the maximum credit allowed for research or design toward his degree. All students must register for 3 credits of course 698 or 699 with the appropriate departmental prefix during the quarter in which they apply for the master's degree.
Master of Engineering Program

This 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.

ENTRANCE REQUIREMENTS

Entrance requirements for the Master of Engineering program are the same as those for the post-baccalaureate Master of Science in Engineering program. It is usually expected that those applying to this program will be experienced or actively engaged in the engineering profession.

PROGRAM REQUIREMENTS

1. A minimum of 45 credits of approved course work is required.
2. Students must maintain overall grade point average of 3.0 out of a 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 he will be placed on probationary status and must obtain a directed program from his advisor 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 3 credits of course 698 with the appropriate departmental prefix during the quarter in which they apply for the degree. This will be used as preparation for and administration of the final examination. This credit may not be used as part of the course work requirement.

The Engineering Five-Year Master's Degree Program

This program consists of a minimum of 246 credits of course work and results in concurrent awards of the Bachelor of Science and Master of Science in Engineering 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 and additional calendar time is available for research or design projects.

ENTRANCE REQUIREMENTS

1. Students who have senior standing (135 credits) with at least 24 credits completed at the University of South Florida in the 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.

PROGRAM REQUIREMENTS

1. A minimum of 246 credits of approved course work must be compiled. Of this total 152 credits must comprise the engineering central core with an additional 94 credits of specialization. A maximum of 18 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 on the courses in the student's graduate course of study. In the event that a student in the Five-Year Program fails to maintain the required academic standards, he 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 for which up to 9 credits of course 699 and up to 9 credits of course 599, with the appropriate departmental prefix, may be used to fulfill their degree requirements.

4. If a thesis is submitted it must be in accordance with the Handbook for Graduate Theses 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.

Applied Science and Technology

Several degree programs and a series of courses are offered by the College of Engineering which are designed for students who do not wish to pursue professionally oriented degree programs in engineering but who wish to obtain a technical background coupled with other interests.

Engineering Science

Undergraduate Degree Program

The College of Engineering offers a curriculum leading to the Bachelor of Science in Engineering Science which stresses the scientific rather than the professional aspects of engineering. The curriculum is a four year program with a minimum requirement of 180 quarter hours, providing the student with an unusual depth of study in mathematics, science, and engineering without limiting the opportunities to broaden his 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 his academic adviser.

Engineering Science presents an attractive option to students who seek to prepare themselves for work in areas which have not yet crystallized into general recognition as engineering disciplines. These may involve biological, social or psychological science as well as the usual chemical and physical components. Many professionals in fields other than engineering also see the program in Engineering Science as a rigorous course of study in "liberal science" that is highly desirable as a background for graduate study in law, medicine or business.

This program was initiated at the University of South Florida as a result of the closing of the School of Engineering Science at The Florida State University. In addition to broadening the educational objectives of the University of South Florida, it likewise provides an avenue for those students unable to complete their degree requirements at The Florida State University. Students
transferring to the University of South Florida from FSU can graduate under the catalog in which they entered that institution.

**Graduate Degree Programs**

The College of Engineering offers a program of study leading to the Master of Science in Engineering Science Degree (thesis required).

The University of South Florida is also authorized to offer the Doctor of Philosophy Degree in Engineering Science to those students presently pursuing their doctoral work at The Florida State University who transfer to the University of South Florida.

**Five-Year Baccalaureate/Master’s Integrated Program**

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 and Master of Science degrees in Engineering Science. The keys to this program are:

1. A two-year research project extending through the fourth and fifth years.
2. The opportunity of taking graduate courses during the fourth year and deferring the taking of senior courses to their fifth year. The requirements for the combined degree do not differ from those for the two degrees pursued separately.

**Minor Program of Study**

Students majoring in other departments of the University may earn a minor in Engineering Science by the completion of 15 quarter hours of approved engineering courses and their mathematics and physics prerequisites.

**BACCALAUREATE REQUIREMENTS (Minimum 180 Quarter Hours)**

<table>
<thead>
<tr>
<th>Qtr. Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. English, Humanities &amp; Social Science or USF General Education Requirement Plus Electives</td>
</tr>
<tr>
<td>2. Science Requirements (Usually Physics &amp; Chemistry)</td>
</tr>
<tr>
<td>3. Mathematics (Calculus &amp; Other)</td>
</tr>
<tr>
<td>4. Engineering Core (EGB Course Work)</td>
</tr>
<tr>
<td>5. Technical or Other Electives (Consent of Adviser)</td>
</tr>
</tbody>
</table>

(There may be minor variations from these numbers in special cases resulting from the FSU transfer.)

**MASTER OF SCIENCE IN ENGINEERING SCIENCE REQUIREMENTS (Minimum 45 Quarter Hours)**

The program requirements for this degree are essentially the same as those itemized for the Master of Science in Engineering except that a research thesis, not an engineering project, is required and students must have pursued an undergraduate program in Engineering Science.
DOCTOR OF PHILOSOPHY IN ENGINEERING SCIENCE REQUIREMENTS

Doctoral students presently enrolled at The Florida State University may complete their degree program at the University of South Florida under the catalog requirements in effect at the time of their graduate admission at The Florida State University (or as revised).

Engineering Technology

The College of Engineering, in order to help serve the educational needs in engineering-related areas, offers a program leading to the degree, Bachelor of Engineering Technology. This program provides for two years (90 quarter hours) of study for students who have completed an Associate of Science degree program in an engineering technology specialty, usually from one of the programs of the State System of Community Colleges.

The 90-quarter-hour university program relies upon the course work and technical competency of the community colleges to provide the basic information required in the student’s area of specialization. It is the primary purpose of this program to provide a broad educational base in the understanding of technology, management, liberal arts, and social sciences and their interrelationships rather than to develop a higher degree of specialization. A portion of each student’s program may be used for one of the areas of concentration listed below.

- Industrial Engineering Technology
- Management Engineering Technology
- Computer Systems Technology
- Air Conditioning Engineering Technology
- Electrical Power Engineering Technology

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

It should be noted by prospective students that this program is not intended to be an engineering degree program. Rather, its function is to bridge the gap between the design or research engineer, the technician, and management. 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.

1. 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. Normally, the student should have completed a minimum of mathematics through applied integral calculus and a non-calculus physics sequence. If the student's performance in his community college program indicates a reasonable probability of success in the Bachelor of Engineering Technology program, he will then be admitted to USF where he will be required to complete a minimum of 90 additional quarter hours to receive the Bachelor of Engineering Technology degree. Because this evaluation procedure is unique to the Bachelor of Engineering Technology program, the application for admission should clearly indicate the desired major field
as “Engineering Technology.” This application should be filed through the Office of Admissions. Further information is available from:
Coordinator of Engineering and Technology
USF St. Petersburg Campus
830 First Street, South
St. Petersburg, Florida 33701

2. 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

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 even greater impact in the future, the College of Engineering offers several levels of credit course work, undergraduate and graduate, to serve students of all colleges in order that they may be prepared to meet the computer challenge.

Computer-oriented courses are offered in two broad categories: (1) those courses which are concerned with the operation, organization and programming of computers and computer systems from the viewpoint of examining the fundamental principles involved in computer usage; and (2) those courses which are concerned with computer applications to a variety of different disciplines, by means of user-oriented-languages such as FORTRAN, PL/1 and COBOL.

In order that the students may derive maximum benefit from the courses, according to their interests, the courses are further divided into two groups: (1) those courses of general interest to a wide variety of disciplines; and (2) those courses of particular interest to students in engineering and the physical sciences.

The service courses available for the non-engineering students include ESC 301, 302, 303, 304, 310, 311, 312, 501, 502 and 503. The courses designed for the engineering and physical science students include EGB 231, 232, EGS 423, 424, 425, 427, 533, 620, 621 and 622.

Engineering Building
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.

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 lives of the general University student and contribute to the overall human environment of the University community.

In addition to offering degree programs in the departments of Art, Dance, Music, and Theatre Arts, the college is the home of the Florida Center for the Arts and GRAPHICSTUDIO.

Programs in art education and music education are offered jointly by the College of Fine Arts and the College of Education. Studio and history courses in art, vocal and instrumental music for these programs are offered by the College of Fine Arts. (See programs under the College of Education.)

FLORIDA CENTER FOR THE ARTS

In 1968, the University of South Florida created the Florida Center for the Arts as a unit within the College of Fine Arts. The various personnel and extracurricular fine arts programs on campus were consolidated into one administrative structure to more efficiently concentrate on all three areas of the university's responsibility — education, research, and community service.

The functions of the Florida Center for the Arts are as follows:

1. To initiate and conduct programs which will bring students and the general public into contact with the highest level of professional activity in all the arts.
2. To offer opportunities for students and public to have direct contact with professional artists.
3. To conduct programs which will allow opportunity for specialized professional study or training in areas not covered by the regular academic structure of the University.
4. To develop programs which can relate the public school system to professional cultural activity.
5. To sponsor research and develop research facilities relative to the development of the arts.
6. To create exhibition and performance programs available for use on campus and throughout the state.
7. To plan and develop physical facilities for the Florida Center.
8. To conduct conferences, seminars and symposiums in the arts for general public exposure.
9. To make available professional consultant services.

The Florida Center is a service unit to the academic departments of the College and, also, supplements their educational functions with imported professional activity of the highest quality. The Center sponsors the performing artist series, the film art series, exhibitions in three galleries, and residencies of professional dance companies. In conjunction with the academic departments, it co-sponsors visits of performing and visual artists to the GRAPHICSTUDIO and other programs. The activities of the Center allow personal exposure of students to important creative talents and offer the serious Fine Arts major an invaluable educational opportunity.

GRAPHICSTUDIO

GRAPHICSTUDIO was established in January, 1969, as a cooperative program between the Department of Visual Arts and the Florida Center for the Arts at the University of South Florida.

The development of the studio has been substantially aided by contributions from The National Endowment for the Arts, Washington, D.C.; The Syracuse China Corporation, New York; from students and local patrons.

GRAPHICSTUDIO at the University of South Florida was established to facilitate the production of prints in an atmosphere in which the artist is freed from the pressures of a commercial atelier. Artists are invited to participate for a period totaling approximately six weeks for proofing and editioning of their work.

The workshop is devoted to technical excellence and experimentation within a framework flexible to the needs of the artist. It is a non-profit studio which prides itself on the multiplicity of activities that it serves. Besides being a resource to the artist, it serves as a vehicle through which students and the community can have the opportunity to communicate with some of the most innovative artists on the current scene. The dialogue growing out of such a situation serves as an educational tool of prime quality. In addition, prints retained by the University are mounted in exhibitions for use on campus and are loaned without charge to other institutions.

GRAPHICSTUDIO is devoted to the creative act and to affecting students and public through contact with artists and the eloquence of their art.

Admission to the College

Provisional admission to the College of Fine Arts is possible with four of the eight areas of General Education completed or waived, with a minimum of 81 credits. Unqualified admission requires completion of six of the eight areas of General Education (including English) and a total of 90 credits or more. (A grade point ratio of 2.0 is expected in both instances.) Occasionally students may be admitted without the 2.0 average but they will automatically be on warning status. Transfer students, and those admitted provisionally to the college, must meet appropriate portfolio or audition requirements before receiving unqualified admission to the college and advanced status in any one of the several departmental programs.

Upon admission by application to the college office, the student will declare his major and will be counseled in his selection of courses by an adviser from the major field. He will then plan the remainder of his college program to
fulfill his educational needs and satisfy requirements for the bachelor of arts degree. The Dean will generally supervise his progress and ultimately certify the student for the degree.

Any student of the University may take courses in the College of Fine Arts even though not officially admitted. Freshmen and sophomores may wish to take Fine Arts courses in addition to their basic studies program. Similarly, students in other colleges or adults in the community will elect Fine Arts courses of particular interest.

**Graduation Requirements**

The College of Fine Arts currently offers one undergraduate degree: Bachelor of Arts. These requirements are referred to on page 45 of this catalog but are briefly summarized here:

1. 180 credits with at least a "C" average (2.0) in work done at the University of South Florida. At least 60 of the 180 credits must be in courses numbered 300 or above.
2. General Education requirements of at least six areas (or transferred equivalents), including CBS 101-102 (Freshman English), plus CBS 401 (the Senior Seminar).
3. Completion of a major in a subject or an integrated major involving several subjects. There must be at least a 2.0 average in this major for all USF work. To insure breadth of experience and to preclude undue specialization, a student must earn (or show competence in) a minimum of 120 academic credits outside his discipline of concentration, including at least 24 credits in courses of study outside the college of the major. In meeting this 24 credit requirement, work must be distributed with no more than 8 counting from a single department.
4. Work transferred from other schools will not be included in the grade point average computed for graduation. (However, graduation with honors requires a 3.5 average in USF work and also in any previous college work.)
5. A student must earn the last 45 credits in residence at the University of South Florida.
6. Completion of a senior appraisal is required. This is administered free to graduating seniors each quarter.

**Curricula and Programs**

**ART**

Requirements for the B.A. Degree:

The visual arts 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 program allows many possible courses of study, most students will select one or two areas of emphasis chosen from the offerings in studio (painting, sculpture, graphics, ceramics, photography, cinematography, drawing), history, or theory.
The University reserves the right to retain selected student work done while registered at the University. Transfer credit will be given on the basis of portfolio and transcript evaluation.

The requirements for the bachelor's degree in Art Education are listed under the College of Education.

**Studio Concentration**

The following are the requirements for a studio major:
1. ART 201, ART 202, and ART 301.
2. Minimum of 12 hours of 400 level studio courses. ART 201 is a prerequisite to all two-dimensional media courses; ART 202 is prerequisite to all three-dimensional courses; ART 301 is prerequisite to all 400 level studio courses.
3. Minimum of 12 hours of 500 level studio courses and/or techniques seminars. PR: 400 level equivalent, ART 201, ART 202, and ART 301.
4. Minimum of 12 hours in Idea Seminars and/or art history courses. Basic Seminar, ART 301, is a prerequisite to the Idea Seminars (ART 491). Art history has no prerequisites.
5. Additional art courses for a total of 60 credit hours.

**Art History Concentration**

Requirements are as follows:
1. ART 201, ART 202, and ART 301.
2. Minimum of 20 hours of 400 level art history courses.
3. Seminar in Art Historical Literature (offered under ART 570). PR: 12 hours in art history.
4. Minimum of 16 hours of ART 491 and/or ART 570.
5. Additional art courses to total 60 credit hours.
6. Proficiency in at least one foreign language.

**FNA Requirements for All Art Majors**

1. Fifteen credits are required consisting of: 3 credits each in Dance, Music and Theatre and 3 credits each of FNA 543 and FNA 553.
2. Three to 6 credits of FNA 443 and/or 3, 6, or 9 credits of FNA 453 may be substituted for the Fine Arts departmental 9 credit requirement. Waiver for credit of up to 18 course hours is possible by demonstration of competence. Review is by Faculty Committee.

Please refer to page 123 for general graduation requirements.

**Requirements for the M.F.A. Degree:**

General requirements for graduate admission are given on page 65.

Applicants to the Master of Fine Arts Degree program are also required to submit slides of their work for approval by a faculty committee. Students accepted initially are given "degree seeking" status for up to three quarters. At that time, but not before the completion of 12 credit hours, students must submit their work for admission to "degree candidacy" status. At candidacy, the student will select a committee of three faculty members who will assist in his progress toward the degree.

The M.F.A. Degree requires a minimum of 72 hours. With the exception of ART 682 (which must be taken at least twice), ART 683, ART 684, and ART 699, which are required, the specific course structure of any student's grad-
graduate program will be determined by Faculty Graduate Committee appraisal
of the student’s interests, capacities and background during his first quarter
of residency. It should be noted that under normal circumstances, students
will be encouraged to take a broad range of courses rather than move to-
ward a specialization.

To meet his thesis requirement, the student must formally present a body
of his graduate work in the quarter prior to graduation.

The student must be registered as a fulltime graduate student for at least
two quarters of his residency.

The requirements for the M.A. Degree in Art Education are listed under
the College of Education.

DANCE

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 to pursue a career as a per-
former and/or choreographer.

Dance majors are required to take DAN 201, 202, 203, 301 (six credits),
302 (six credits), 303, 311 (three credits), 313, 401 (nine credits), 403, 413,
501 (nine credits), 503, 513, for a total of 60 hours.

Senior dance majors are required to choreograph and perform in a senior
dance program.

For advanced placement, prospective students must contact the dance
office (TAR 233) to arrange for an audition prior to registration.

Additionally, 15 credits are required consisting of: 9 credits in Art, Music
and Theatre and 3 credits each of FNA 543 and FNA 553. Three to six credits
of FNA 443 and/or 3, 6 and 9 credits of FNA 453 may be substituted for the
Fine Arts departmental 9-credit requirement. Please refer to page 123 for
additional requirements.

MUSIC

The music curriculum is designed for those students gifted in the per-
performance and/or composition of music. Candidates for a major in music are
required to pass an entrance examination in their respective performance and/
or composition areas. All new registrants are also required to take a placement
examination in music theory and literature. Students may obtain dates and
times for these examinations from the Music department office (FAH 204).
Completion of these examinations is required before registration in music
courses can be permitted.

Requirements for the B.A. Degree:

All students seeking a degree in music are required to (1) complete suc-
cessfully the secondary piano requirements as defined by the music faculty,
(2) present a partial public recital during their junior year, (3) present a com-
plete public recital during their senior year. (Composition majors must submit
a portfolio of their compositions and arrange for a public performance of their
works during their senior year). These requirements are in addition to the actual
course requirements listed below.

A total of 60 quarter hours is required, distributed as follows: 24 hours in
Music Theory-Literature and 36 hours in applied music or 36 hours in Compo-
sition for composition majors (a minimum of three quarters at the 500 level is
required). Students enrolled for applied music must enroll for a minimum of one
performing ensemble each quarter (ensemble(s) to be determined by the student's studio teacher). The above are basic music requirements. The Department of Music reserves the right to require additional remedial courses.

Requirements for the M.M. Degree:

General requirements for graduate work are given on page 67. In addition, the applicant will need to satisfy the following requirements in music before initial registration: (1) performance audition, (2) placement examinations in music theory-literature and piano, and (3) completion of the Graduate Records Examination Advanced Test in Music.

The specific program for each student will vary according to his needs and interests. Each program must be approved by the student's advisor in conformance with the guidelines established by the Graduate Music Committee. A minimum of 54 quarter hours is required and a student must be registered as a full-time student for a minimum of one quarter.

THEATRE

All students will take TAR 203, 211, 221, 252, 339, 443, 471, 501 and 502, plus any two of the Theatre Literature courses. Depending upon choice of concentration, additional requirements are-performance majors: TAR 212, 311, 313, 411, 413, 511, 515, plus 6 hours elected in the discipline; technical majors: TAR 322, 421, 423, 425, 429, 529, choice of one of TAR 422, 424, 426, plus 6 hours elected in the discipline; playwriting majors: TAR 212, 444, 515, 543, 544, plus one additional Theatre Literature course and one beginning design course, with 6 hours elected in the discipline—for a total of 60 hours. Theory majors: TAR 311, 313, one beginning design course, four remaining Theatre Literature courses; for a total of 54 hours, plus an additional 12 hours of English electives selected from ENG 411, 426, 503, 519, 520, 559.

Additionally, 15 credits are required consisting of: 3 credits each in Dance, Music and Visual Arts and 3 credits each of FNA 543 and FNA 553. Three to six credits of FNA 443 and/or 3, 6 or 9 credits of FNA 453 may be substituted for the Fine Arts departmental 9-credit requirement.

Please refer to page 123 for graduation requirements.

HUMANITIES MAJOR

A major in the Humanities is offered as an interdisciplinary program administered through the office of the Vice President for Academic Affairs. The curriculum for the Humanities major comprises interdisciplinary courses in the verbal, visual, and musical arts of specified periods and cultures.

Students interested in the Humanities major should consult the Chairman of the Humanities Program, LAN 360. The requirements for a major in Humanities are 45 credits of upper level Humanities courses (400 and 500 level) including HUM 591 plus nine credits in the creative or performing arts.

A graduate program leading to a Master of Arts in Humanities Education is available. For requirements see the College of Education.
The College of Language and Literature offers general and liberal education. Students may explore vocational interests and develop in this College breadth of knowledge and precision of intellect necessary for responsible leadership in our society.

More specifically, the College seeks:
1. To help students continue the exploration of new subjects affording fresh ideas and talents enriching to life.
2. To enable students to try out several fields as a means of determining the wisest vocational choice.
3. To give sufficient development within the chosen vocational field that the student will be prepared to obtain a job upon graduation or move successfully into a graduate or professional school.
4. To collaborate with the other colleges of the University in providing liberal courses to reinforce required training in those professional schools.
5. To cultivate independent thinking, creative imagination and value commitment in order that students may become constructive leaders in their chosen activities.

The College is concerned with language and literature in both the broad and specialized meanings of the terms. Whether the language be native or foreign, new or old, expressed or implied, students in this College are asked to explore it in the context of the beauty and utility it holds for man’s permanent thought. Literature is studied in the context of continuing tradition, as the expression of what is universally significant for man.

**Admission to the College**

Admission to the College of Language and Literature is possible with a minimum of 30 credits. Unqualified admission requires six of the eight areas of General Education (including English), and a total of 90 credits or more. (A grade point ratio of 2.0 is expected in both instances.) Occasionally students may be admitted without the 2.0 average, but they will automatically be on warning status.

Upon admission the student will declare his major and will be counseled in his selection of courses by an adviser from the major field. He will then plan the remainder of his college program to fulfill his educational needs and satisfy requirements for the bachelor of arts degree. The Dean of the College will generally supervise his progress and ultimately certify the student for the degree.

Any student of the University may take courses in the College of Language and Literature even though not officially admitted. Freshmen and sophomores
may wish to take liberal arts courses in addition to their general education program. Similarly, students in other colleges or adults in the community may elect liberal arts courses of particular interest.

**General Requirements**

The College of Language and Literature currently offers one undergraduate degree: Bachelor of Arts. These requirements are referred to on page 45 of this catalog but are briefly summarized here:

1. 180 credits with at least a “C” average (2.0) in work done at the University of South Florida. At least 60 of the 180 credits must be in courses numbered 300 or above.
2. General education requirements of at least six areas, including Freshman English plus CBS 401 (the Senior Seminar).
3. Completion of a major in a subject or an integrated major involving several subjects. There must be at least a 2.0 average in this major for all USF work. To insure breadth of experience and to preclude undue specialization, a student must earn (or show competence in) a minimum of 120 academic credits outside his discipline of concentration, including at least 24 Liberal Arts (Fine Arts, Natural Sciences, and Social & Behavioral Sciences) credits outside the College of Language and Literature. In meeting this 24 credit requirement, work must be distributed with no more than 8 counting from a single department.
4. Work transferred from other schools will not be included in the grade point average computed for graduation. (However, graduation with honors requires a 3.5 average in USF work and also in any previous college work.)
5. A student must earn the last 45 credits in residence at the University of South Florida.
6. Completion of a senior appraisal is required. This is administered free to graduating seniors each quarter.

**HONORS PROGRAM**

The College of Language and Literature offers a special program for superior students which will enable them to participate in special seminars emphasizing independent work and creativity.

Students participating in the honors program are expected to take honors seminars offered by the College and in addition to the honors courses designated by their major department. Students may volunteer or be nominated by faculty members, after which a screening committee will select those to participate. Further information is available from the office of the Dean of the College of Language and Literature.

**Curricula and Programs**

The College of Language and Literature offers majors in 10 fields as described in the following pages. The student must fulfill all the requirements indicated or receive written permission from the department chairman for any substitution or exemption.
LIBERAL STUDIES MAJOR

The College offers a Liberal Arts major for students who wish a broad program tailored to their particular interests and not falling naturally into one of the departments or divisions. The major may have a pre-professional purpose or it may simply serve a student's desire to become better acquainted with himself and the world.

Persons interested in the Liberal Studies major should see the Coordinator of Advising of the College for admission and assignment to an adviser, and they should write out for approval a statement of the purposes underlying their proposed program and the combination of courses they deem most relevant. This should be done as early as possible and at least before earning 135 credits.

All the College rules for the B.A. degree apply likewise to this major: 180 credits with at least a C average. General Education requirements fulfilled, at least 60 credits at the upper level (300 and above) and 24 Liberal Arts credits outside the area of greatest concentration. There must be at least 20 credits with a C average in one department to assure some anchorage in one field.

AMERICAN STUDIES

The American Studies major is designed for those students interested in studying the relationships among the important elements which shape American civilization. The American idea sequence, CBS 301, 302, 303 and 304 (or the counterpart in transfer work) is a prerequisite (or can be taken concurrently) for admission to the major.

To complete requirements for a major a student must take (1) the following courses in American Studies: AMS 301, AMS 311-312-313, and AMS 491-492-493; (2) three courses, 12 hours, and not more than one course from each department selected from the following: AFA 261-262, COM 301, ENG 305-306-307, HTY 411-412, HTY 421-422, HUM 535-536-537, PHI 413; and (3) twenty-one hours of related elective courses, no more than nine hours in any one area chosen in consultation with and approved by his major adviser from among the following: AFA (any course or courses not used to satisfy category two above), AMS 383, AMS 481, AMS 483, ANT 441, ECN, 371, ENG 305-306-307 (any course or courses not used to satisfy category two above), ENG 312, ENG 415, ENG 416, ENG 425, ENG 426, ENG 517, EDF 575, HTY 301, HTY 302, HTY 311, HTY 312, HTY 315, HTY 316, HTY 319, HTY 320, HTY 409, HTY 410, HTY 411-412 (either course not used to satisfy category two above), HTY 421-422 (either course not used to satisfy category two above), HUM 535-536-537 (any course or courses not used to satisfy category two above), PHI 413 (if not used to satisfy category two above), POL 201, POL 338, POL 341, POL 347, POL 431-432, POL 441, POL 453, POL 454, POL 455, POL 463, REL 329, SOC 201, SOC 261, SOC 341, SOC 371, SOC 563, SPE 360 and SSI 503. Descriptions of these courses may be found under the appropriate departmental course descriptions.

Each student's program must be planned with the American Studies adviser, who may make appropriate substitutions when new related courses are added to present University offerings and he deems such substitutions educationally advisable.

CLASSICS AND ANCIENT STUDIES

The Department offers a major in Classics and Ancient Studies. Requirements for the B.A. degree in Classics and Ancient Studies are: 48 quarter credits consisting of a core sequence of 22 credits plus one of three alternatives of
26 credits providing a choice of emphasis. The core sequence consists of CLS 301, 302, 303, 411, 412, 413, and 529. The alternative sequences are:

(a)—emphasis on Latin: CLS 321, 371, 401, 402, 403, 517, and 571;
(b)—emphasis on Latin and Greek: CLS 321, 331, 332, 333, 371, 527, 571;
(c)—broad scope with Latin, Greek, and Hebrew: CLS, 331, 332, 333, 341, 342, 343, 527, and 583 (Biblical Civilization).

Individual adaptations within the 26 variable credits to meet special student needs are possible with the consent of the Department Chairman.

Electives (where applicable) are: CLS 401-402-403; 331-332-333; 321, 371, 517, 527, 571; ART 470, 471; HUM 431-432; PHI 333, 415; REL 351.

For a combination major of Latin with a modern foreign language see page 133 under combined majors, MODERN LANGUAGES.

ENGLISH
Requirements for the B.A. Degree:

A major in English requires a sequence of courses in British and American literature. Advanced courses focus on the works of particular authors, genres, or groups of related authors. All English courses attempt to teach students how to think critically about literature and to fit the works studied into the economic, social, political, scientific, and religious contexts.

To accumulate the required 48 credits, all English majors must take the following seven courses: ENG 201, ENG 202, ENG 203, ENG 305, ENG 306, ENG 307, and ENG 411. In addition they must elect one of the following: ENG 319, ENG 321, ENG 325, ENG 335, ENG 336, ENG 337, ENG 437, ENG 459, and ENG 511; two of the following: ENG 429, ENG 500, ENG 501, ENG 502, ENG 503, ENG 504, ENG 505, ENG 506, ENG 507, ENG 508, ENG 515, ENG 519, ENG 520, ENG 521, and ENG 559 (a student cannot use both ENG 519 and ENG 520 in this group); and two of the following: ENG 415, ENG 416, ENG 425, ENG 426, ENG 430, ENG 513, ENG 517, ENG 518, ENG 523, ENG 527, ENG 528, and ENG 531.

Persons wishing to take English courses not on this list, or more than the specified number of courses in the above areas, may include them in the 12 hours allowed under the 60-hour maximum permitted in one department.

For the description of the combined major in English and Linguistics, refer to the Linguistics section of the catalog on page 135.

Requirements for the M.A. Degree:

Requirements for Admission. In addition to the general requirements of the University, an applicant must have an academic average of B in all English courses above freshman English, a minimum of 28 hours of literature in English above the freshman level, and a score of at least 600 on the Verbal Aptitude Test of the Graduate Record Examination and a total GRE score of at least 1000. All applications must be approved by the Graduate Committee of the Department of English.

Course Work. A master of arts degree in English requires 45 hours of course work from the following list of English courses: ENG 691; two ENG 683 courses; ENG 623 (or the bibliography test); ENG 531 (unless the student has taken a literary criticism course as an undergraduate); and any one of the following courses—ENG 515, ENG 517, ENG 518, ENG 535, LIN 540, or LIN 541 (unless the student has taken a linguistics or English language course as an undergraduate). All courses to be counted for the M.A. must be at the 600 level, except ENG 531 and a 500-level linguistics or language
course. Each student is required to write a directed critical or analytical paper carrying one hour of credit (ENG 681). Students may substitute up to eight hours of courses acceptable for graduate credit in related areas, subject to approval by the Graduate Committee of the Department of English. A student may not count toward his degree more than eight hours of ENG 683 or more than four hours of ENG 691.

Other Requirements. All candidates for a master's degree will be required to demonstrate reading proficiency in one of the following foreign languages: Latin, Greek, French, German, Spanish, Italian, or Russian. They must also pass a comprehensive examination, both oral and written. Specific information about these requirements is available from the Graduate Committee of the Department of English.

Requirements for the M.A. Degree in Junior College Teaching:

Requirements for Admission. See M.A. program above.

Course Work. A joint program with the College of Education, designed to provide competence in those areas of English most often needed by the junior college teacher: composition, language, literature in English, and world literature in translation. Courses in English: ENG 583, Advanced Composition for Teachers; ENG 601, Problems in College English Instruction: Composition; any one of the following courses the student has not taken previously—ENG 517, ENG 535, LIN 540, LIN 541; one course in English literature 1500-1660; one course in English literature 1660-1780; one course in English literature 1780-1890; one course in American literature; one course in twentieth-century literature; ENG 683, Selected Topics in English Studies (world literature). All literature courses must be taken at the 600 level. Courses in the College of Education: EDR 509, EDH 651, EDH 653, and EDC 691 (Internship if required).

Foreign language requirements. None.

Other requirements. Each student must pass a comprehensive examination, oral and written. Specific information about this requirement is available from the Graduate Committee of the Department of English.

Requirements for the Ph.D. Degree:

The Ph.D. in English involves approximately 95 hours of course work beyond the B.A. degree, exclusive of credits devoted to Master of Arts thesis and doctoral dissertation. In addition, each student must achieve a grade of B or A in an advanced foreign-language literature course. Exceptions to usual course requirements beyond the first 50 hours may be made by the advising committee upon consideration of a student’s ability and education.

Three of the following seven subspecialties are selected by each candidate, with the consent of his advising committee:

Old and Middle English (English language and literature, with relevant Continental backgrounds to the year 1500)

Renaissance British Literature (1500-1660, and including Milton and Marvell; includes relevant Continental backgrounds)

Restoration-Eighteenth-Century British Literature (1660-1780; includes relevant Continental backgrounds)

Nineteenth-Century British Literature (1780-1890; includes relevant parallel developments on the Continent)
American Literature to 1920 (includes relevant European backgrounds and parallel developments on the Continent)

Twentieth-Century Literature (British 1890 to the present and American 1920 to the present; includes relevant parallel developments on the Continent)

Language, Linguistics and Style

The first fifty hours of the program will be given over to general study of American and British language, literature, literary history and literary criticism and to study of the teaching of freshman English and lower-level college literature courses, with each student advised by one senior member of the faculty. At the end of fifty graduate quarter hours each student will be required to take a Ph.D. Qualifying Examination (five hours, written and oral). This will help determine whether or not he will be admitted to candidacy.

As a candidate he will pursue his three areas of specialty (44 hours) and further study of college teaching and research (in ENG 703). He is guided in this work by his advising committee — composed of one senior member from each of his areas of concentration. The advising committee sets specific course requirements for the candidate’s three areas of specialty, suggests study beyond the minimum requirements or allows the candidate in special cases to take fewer than the minimum hours in his areas of concentration, and advises him generally on the preparation for his Ph.D. Preliminary Examination. Usually a candidate will have completed an approximately equal number of course hours in each of his areas, though knowledge of an area, however gained, is the student’s real goal. The Ph.D. Preliminary Examination (fourteen hours, written and oral) will determine his knowledge of the three areas. To pass the Ph.D. Preliminary Examination the candidate must demonstrate that he has gained control of the materials in his chosen areas, has mastered the methods of advanced study appropriate to those areas, and is capable of doing significant independent research in them. If he passes, he will then be permitted to write his dissertation under the guidance of a director and three readers, one of whom will be a senior professor from another department closely allied to the discipline of English. The dissertation must be satisfactory to the director and every reader. There will be no examination on the dissertation.

A Master of Arts degree is not necessary in this program, though it is strongly recommended that every student take the M.A. en route to the doctorate. Students entering the Ph.D. program with M.A. degrees already completed will be required to pass the Ph.D. Qualifying Examination as soon as possible after coming to the campus so that they may transfer their graduate credit (up to a maximum of 52 hours) into the U.S.F. Ph.D. program; it will also be necessary for those students to pass ENG 601 and ENG 602 before being admitted to candidacy. All transfer students must pass forty-four hours of graduate course work at U.S.F., unless some of these hours are waived by an advising committee under special circumstances.

Admission to the program for all beginning graduate students will be the same as that in effect for all who request entrance into the M.A. program in English. Beyond the general admission requirements of the University, these include a GRE General Aptitude Test total score of at least 1000 and a score of at least 600 on the verbal part of that test, an average of at least B in all English courses taken above the freshman level, and completion of at least twenty-eight quarter hours in literature written in English. Admission to candidacy for the Ph.D. will be granted by the Graduate Committee of the Department after reports from the Ph.D. Qualifying Examination Committee, course instructors,
and thesis adviser have been evaluated. The Department reserves the right to
deny a student continuance in the Ph.D. program if he does not maintain a B
average, if he is given a second grade below B in his first fifty hours of graduate
work, if he does not perform adequately on his qualifying or preliminary exami-
nation, or if he violates departmental regulations regarding graduate study.

The aim of the program is to produce teacher-scholars who have a good
general knowledge of English and special knowledge of a distinct part of their
major. It is strongly recommended that all candidates choose as one of their
areas of concentration Language, Linguistics, and Style. And since the program
requires knowledge of backgrounds to and developments in literature not
written in English, all students are encouraged to take courses in other depart-
ments such as Classics, Modern Languages, and Humanities. They are en-
couraged, too, to take courses in American Studies, history, philosophy, and
speech. Sixteen graduate credit hours in subjects closely allied to English may
be applied to the Ph.D. in English.

The following courses are required for all students in the program: ENG
601, 602, 683 (twice), 690, 691, 703, 791, 799. In the first fifty hours each stu-
dent must pass a test of his knowledge of basic bibliographical tools for research
in English. He must also pass (with a grade of B or A) a course, at the senior
level or higher, in the literature of a foreign language.

MODERN LANGUAGES

Instruction is provided in French, German, Italian, Portuguese, Romance
Philology, Russian, and Spanish. Instruction in less commonly-taught languages
(such as Modern Arabic, Modern Greek, Contemporary Hebrew, Hindi Urdu,
Japanese, Polish) and linguistics, language structure and development, is
also available.

These 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 lan-
guages, those who plan to further their studies in graduate school, and those who
seek careers in various types of foreign employment.

Major programs are offered in French, German, Italian, Latin, Russian,
and Spanish, and in combinations of any two of these.

Requirements for the B.A. Degree:

Modern language majors must complete at least 45 credits in the
chosen language beyond the intermediate language courses. Among these 45
credits must be the following:

FRENCH: FRE 301, 303, 305, 401, 403, 405, 406, and 516.
GERMAN: GER 301, 303, 305, 401, 405, 406, and 516.
ITALIAN: ITA 301, 303, 305, 401, 405, and 406.
RUSSIAN: RUS 301, 303, 305, 401, 405, and 406.
SPANISH: SPA 301, 303, 305, 401, 403, 405, 406, 516, and 561 or
562.

Combined Majors

Combined majors are offered in any two modern languages or in Latin
and a modern language, or in languages and linguistics. For a major in two
modern languages, a student must take the courses required for the major in
his first language and 301, 303, 305 and 401 in his second language. Stu-
dents majoring in Latin and a modern language must take CLS 301, 302, 303,
371, 401-402-403, 517 and 571; and courses numbered 301, 303, 305, 401,
405 and 406 in the modern language. For a description of the combined major in Foreign Languages and Linguistics, refer to page 135.

Requirements for the M.A. Degree in French:

General requirements for graduate work are given on pages 67-69.

For admission to the M.A. program in French, a student must have previously taken the following French courses or their equivalent: FRE 303, 401, 403, 405, and 406. The student must also have a 3.0 GPA over the last two years of undergraduate work attempted.

For a master's degree in French, the following are required:

1) 45 credit hours in French courses, or:
   31-35 hours in French courses, plus 10-14 hours graduate-level work in a second field approved by the student's supervisory committee. Of the required work in French, FRE 601 and 689 and at least 12 additional hours must be at the 600 level.

2) Reading knowledge of a second foreign language approved by the student's supervisory committee.

3) A written comprehensive examination, based upon a reading list provided by the department, on French language and literature. A portion of the comprehensive examination must be written in French.

4) A thesis or thesis-type paper, written under the direction of an adviser assigned by the departmental chairman, and approved by the student's supervisory committee.

Requirements for the M.A. Degree in Spanish:

General requirements for graduate work are given on pages 67-69.

For admission to the M.A. program in Spanish, a student must have previously taken the following Spanish courses or their equivalent: SPA 303, 401, 403, 405, and 406. The student must also have a 3.0 GPA over the last two years of undergraduate work attempted.

For a master's degree in Spanish, the following are required:

1) 45 credit hours in Spanish courses, or:
   31-35 hours in Spanish courses, plus 10-14 hours graduate-level work in a second field approved by the student's supervisory committee. Of the required work in Spanish, SPA 601 and 689 and at least 12 additional hours must be at the 600 level.

2) Reading knowledge of a second foreign language approved by the student's supervisory committee.

3) A written comprehensive examination, based upon a reading list provided by the department, on Spanish and Spanish American language and literature. A portion of the comprehensive examination must be written in Spanish.

4) A thesis or thesis-type paper, written under the direction of an adviser assigned by the departmental chairman, and approved by the student's supervisory committee.

LINGUISTICS

Linguistics is primarily an upper-level and graduate discipline with strong interdisciplinary concerns. Undergraduates interested in Linguistics must elect one of the three combined majors described below. Graduate students may effect complete specialization in the program leading to the M.A. degree in Linguistics.
Students interested in Linguistics are urged to acquire a broad language background in their undergraduate programs, especially if they intend graduate study. A classical language (Latin, Greek, Hebrew) or a non-Western language are strongly recommended in addition to any modern European languages the student may have studied. Also, prospective graduate students are advised to obtain good foundations in Mathematics (MTH 309 and PHI 509 are especially recommended), in computer programming, statistics, and experimental design and methodology. All programs for any of the three majors below must be approved by an adviser from both of the disciplines concerned.

Requirements for B.A. Degrees:

1. **Anthropology-Linguistics Major.** This sequence is designed for students who are particularly interested in the role of language in human behavior and cultural development. It requires the following eight courses in Anthropology: ANT 201, ANT 311, ANT 321, ANT 331, ANT 401, ANT 461, ANT 491 and ANT 431 or ANT 441. It requires the following six linguistics courses: LIN 301, LIN 530, LIN 551, and SPE 503, and any two courses from the following group: LIN 511, LIN 540, LIN 541, LIN 543, CLS 571, ENG 518, PHI 531, PSY 441 or SSI 311.

2. **English-Linguistics Major.** This sequence is designed for students who are especially interested in the role of linguistic studies in problems of English, grammar, composition, and literary structure and style. It requires six courses from the following literature group, of which ENG 201 and ENG 501 are required: ENG 201, ENG 202, ENG 203, ENG 306, and ENG 307, ENG 411, ENG 501, and ENG 507; four language courses: ENG 321, ENG 515, ENG 517, and ENG 518; and four of the following, of which LIN 540, and LIN 551 are required: LIN 511, LIN 530, LIN 540, LIN 541, LIN 543, LIN 551, CLS 571, PHI 531, SPE 311, SPE 503, and SPE 511.

3. **Foreign Language-Linguistics Major.** This sequence is designed for students who are especially interested in the role of linguistic studies in problems of grammar, composition, and literary structure and style. The student must elect one of the following language sequences:
   - **FRENCH:** FRE 301, 303, 305, 401, 403, 405, 406, and 516.
   - **GERMAN:** GER 301, 303, 305, 401, 405, 406, 513, and 516.
   - **ITALIAN:** ITA 301, 303, 305, 401, 405, and 406.
   - **RUSSIAN:** RUS 301, 303, 305, 401, 405, 406, 515, and 516.
   - **SPANISH:** SPA 301, 303, 305, 401, 403, 405, 406, and 516.

French, Italian and Spanish students must also take either ROM 517, or CLS 517. In the Linguistics sequence of the major, students must take LIN 301, LIN 551, CLS 571, and any two of the following: LIN 511, LIN 530, LIN 540, LIN 541, LIN 543, ENG 518, PHI 531, SPE 311, SPE 503, and SPE 511.

Students wishing to combine two modern foreign languages and linguistics must take one of the above sequences as the first language and the sequence 301, 303, 401, 403 (prefix determined by language selected), plus any phonetics, stylistics, or history of the language courses offered for that language. Students who intend to do graduate work are strongly urged to consider Latin or Classical Greek as a second language. Sequences for these languages are listed under Classics and Ancient Studies. Students may also elect a non-Western as a second language; six quarters satisfies the requirements for one of these. The Linguistics course requirements remain the same as for a single foreign language.
Requirements for the M.A. Degree:

Requirements for Admission. Undergraduate majors generally regarded as appropriate foundations for graduate study in linguistics are: anthropology, English, a foreign language, linguistics, and speech; however, a student with a baccalaureate degree in any discipline is eligible. In addition to the general requirements of the University, an applicant must have an academic average of B in all of his major courses and a combined score of 1000 on the aptitude section of the Graduate Record Examination (a minimum of 500 of the total must be earned on the verbal portion). If a student's undergraduate preparation has not included suitable introductory courses in general or descriptive linguistics and phonetics, he will be required to remedy the deficiencies by taking LIN 301 and SPE 503 (credit for the former may not be counted toward the degree requirements). The undergraduate study of one or more foreign languages, especially a non-Western language, is strongly encouraged.

Course Work. An M.A. degree in linguistics requires a minimum of 48 hours of course work of which LIN 551, LIN 600, LIN 601, LIN 602, LIN 611, LIN 612, and 2 to 8 hours of the thesis course LIN 699 are required. The remainder of the course work may be taken in linguistics courses (or closely related courses) in other departments, notably Anthropology, Classics and Ancient Studies, Education, English, Modern Languages, Philosophy, Psychology, Sociology, and Speech. The student may elect to take all of these remaining courses in one such department, or he may take them in several departments, but each program must be planned with and approved by the Linguistics adviser, who may make appropriate substitutions when he deems these educationally advisable.

Foreign Language Requirement. The foreign language requirement is regarded as an integral part of the M.A. Program in Linguistics, and students must demonstrate a proficiency in one foreign language for the degree. However, students who intend to concentrate in historical-comparative linguistics will be expected to bring to the program an extensive undergraduate background in foreign languages, or else to remedy the deficiency after admission. Students who intend to concentrate their work in general-descriptive linguistics or other sub-specialties will have wide latitude in their choice of a foreign language to satisfy the requirement, and the study of a non-Western language is strongly encouraged. The choice of a language and the method for satisfying the proficiency requirement (e.g., course work, examination, etc.) will be determined on an individual basis by the student and his thesis committee.

Other Requirements. The student will present an acceptable thesis in the field of linguistic studies (from 2 to 8 hours credit are granted for this project through registration for LIN 699; see above under course work requirements). In addition, the student must pass a comprehensive examination in linguistics, both oral and written. If a student has elected to take as many as eight hours of course work in a department other than Linguistics in his program, then his examination will cover material from those courses also.

The following courses taught in other departments are also linguistics courses, or are closely related to linguistics: ANT 401, CLS 371, CLS 517, CLS 571, EDT 531, EDT 631, EDX 649, ENG 515, ENG 517, ENG 518, ENG 616, ENG 686, ENG 687, FRE 403, FRE 601, GER 513, GER 601, PHI 531, PSY 441, ROM 517, ROM 518, RUS 515, RUS 516, SPA 403, SPA 601, SPE 311, SPE 503, SPE 511, SPE 603, SPE 611, SPE 612, SAI 550, SAI 623, and SSI 311. Descriptions of these courses may be found under the appropriate departmental headings.
MASS COMMUNICATIONS

Mass Communications (journalism) offers a number of courses with a general liberal arts approach, from which any student may elect those suited to his interests or needs. Majors in Mass Communications will find, in addition, more specialized courses in advertising, broadcasting, film, magazine, newspaper, and public relations areas. The following general courses are designed to introduce students to a broad perspective and understanding of the processes of communication and its effects upon society and the individual:

- COM 300 Introduction to Mass Communications (3)
- COM 301 The Popular Arts in America (4)
- COM 351 Literature and the Film (3)
- COM 400 International Communication (4)
- COM 403 History and Principles of Communications Law (4)
- COM 451-452 Social History of the Film (4, 4)
- COM 453 The Documentary Film (4)
- COM 500 Theory of Mass Communication (4)

Majors seeking careers in the mass media will be directed to the various daily and weekly newspapers, radio and television stations, advertising agencies, magazines and public relations firms with which the department maintains close contact. Summer internships and part-time work in the media are available to qualified students.

Requirements for the B.A. Degree:

The necessary techniques that a major in Mass Communications will receive are based on a knowledge of certain kinds of human behavior, especially as it relates to theory, principles, and practice of mass communications. Required courses and recommended electives offer students the widest possible freedom to explore their own areas of interest within a broad framework of the liberal arts. Majors will choose about 60 credits of electives outside the department. Required are 22 credits in a Mass Communications "core," 13 credits in supporting courses, and 23 or 24 credits in a sequence, as follows:

**Required Core Courses:** (22 q.h.)
- COM 300 Introduction to Mass Communications (3)
- COM 330 Beginning Reporting (4)
- COM 351 Literature & the Film (3)  
  (Film Sequence majors will take COM 353 in place of COM 351)
- COM 403 History and Principles of Communications Law (4)
- COM 491 Senior Seminar: Intercommunications
- COM 500 Theory of Mass Communication (4)

**Required Supporting Courses** (13 q.h.)
- POL 201 American National Gov't (4)
- POL 203 State & Local Government (4)

**SPE 241 Introduction to Broadcasting (5)**

**ONE OF THE FOLLOWING FIVE SEQUENCES:**

**Advertising** (23 q.h.):
- MKT 301 Basic Marketing (5)
- MKT 312 Principles of Advertising & Sales Promotion (3)
- COM 313 Advertising Copywriting and Layout (4)
- COM 341 Principles of Public Relations (4)
- COM 375 Typography I (4)
- MKT 413 Consumer Behavior (3)

**Film** (28 q.h.)
- COM 353 Introduction to Film Writing (4) (in place of COM 351)
COM 354-355-356 The Film as Mass Communications I, II, III (12)
COM 451-452 Social History of Film (8)
COM 453 The Documentary Film (4) or COM 454 Film Criticism

Magazine (24 q.h.)
COM 321 Magazine Article & Feature Writing (4)
ENG 321 Narrative and Description (4) or ENG 325 Advanced Expository Writing (4)
COM 325 Magazine Editing (4)
COM 371 Photojournalism I (4)
COM 375 Typography I (4)
COM 425 Magazine Planning and Production (4)

News-Editorial (24 q.h.)
COM 331 Advanced Reporting (4)
COM 338 Newspaper Management (2)

Public Relations (24 q.h.)
COM 341 Principles of Public Relations (4)
COM 441 Public Relations Writing (4)
COM 541 Public Information (4)
12 hours of approved related electives

SECONDARY EDUCATION MAJORS

English-Education majors, or those who wish certification in Journalism under the English-Mass Communications-Education program, are referred to the College of Education section of this Catalog.

Descriptions of these courses may be found under the appropriate departmental course descriptions.

Each student’s program must be planned with his Mass Communications Sequence coordinator, who may make appropriate substitutions when he deems it educationally advisable.

PHILOSOPHY

The philosophy program includes five major areas of study: (1) logic and scientific method, (2) history of philosophy, (3) theory of knowledge, (4) theory of reality, and (5) theory of value. Majors in philosophy must complete at least 45 credit hours in the program, with the following courses required: (1) PHI 303; (2) PHI 333, 334, and 335. In addition to (1) and (2) we urge all majors who are going to graduate school in philosophy to take at least one course in all areas. At least nine credits must be taken above the 500 level, including two seminars. No more than two of PHI 301, 311, 317 will be counted toward the major. Credit toward a major in philosophy will be extended for LLI 306 or 315. Students may substitute PHI 583 (selected topics) for any requirement above, with approval of the Department Chairman.

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: (1) is accepted by the Department as an honors candidate, (2) completes 4 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 4 honors courses will consist of 3 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
fourth honors course will be a research project, and the student will enroll for
the project under PHI 583-03.

Requirements for the M.A. Degree

For admission the student must have a B average in philosophy as an
undergraduate and a score of at least 1000 on the GRE; the student must have
completed the equivalent of PHI 303, 333, 334 and 335.

General requirements for graduate work are given on pages 67-69.

Reading knowledge of a foreign language approved by the student's
adviser.

A written comprehension examination.

A thesis or thesis-type paper, written under the direction of an adviser
assigned by the departmental chairman, and approved by the student's
supervisory committee.

RELIGIOUS STUDIES

The Program of Religious Studies at the University of South Florida makes
available to students a variously-dimensioned field of study which hopefully
facilitates an educated man's understanding of himself, an 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 towards a larger understanding of the religious thought and life-styles of
people possessing religious heritages other than the Judaeo-Christian heritages.

More specifically stated, the Program offers an opportunity for students
to examine religion as a persistent and determinative aspect in human life by
asking, (1) Why do men do religion? What is it about man that makes him the
religious animal? And (2) what do men do when they do religion? What are
the various ways (theologies, rituals, ethical demands) that men practice
religion? It also offers an opportunity for students to examine and discover the
various aesthetic (especially literary) and moral values possessed in and pro­
claimed by the great religious traditions of the world—both East and West.

It makes available for personal enjoyment and personal value the great
religious literature of the world.

And it can serve as basis for advanced professional study in the field, on
the master and doctoral level, or as a valuable background for professional
work in religion; e.g., teaching in public schools, junior colleges, the religious
education departments of churches and synagogues; religious journalism and
other forms of mass communication; social service.

Requirements for a Major in Religious Studies: A total of 49 quarter hours
are required for a major, divided as follows:

I. Basic Documents and the Analysis of Religious Thought (33 hours
required).
REL 300, REL 310, REL 315, REL 325, REL 327, REL 328, REL
329, REL 350, REL 351, REL 360, REL 370, REL 383, REL 385,
REL 481, REL 483, REL 491, REL 583, PHI 411, SOC 373, ANT 471

II. Interdisciplinary Religious Courses (17 hours required)
ENG 319, ENG 507, ENG 511, ENG 583, (Religious Literature),
CLS 321, CLS 341, 342, 343, LLI 301, 302, PHI 321, PHI 333, PHI
521, ART 472, HUM 427, HUM 428, HUM 541, HUM 542, HUM
543, HTY 425, HTY 426, HTY 432, HTY 591 (Religious History).

Descriptions of these courses may be found under the appropriate depart­
mental course descriptions.

Each student’s program must be planned with the Religious Studies
adviser, who may make appropriate substitutions when he deems it educationally advisable.

**SPEECH**

The Speech curriculum provides courses for all students interested in increasing their understanding and skills of oral communication, and offers major programs in general speech, rhetoric and public address, and broadcasting. In addition, two combination major programs are available: an English-Speech program, designed primarily, though not exclusively, for those preparing to teach in the secondary schools; and a Speech-Theatre Arts program.

A major in Speech requires a minimum of 45 credits; the combination English-Speech program requires 67 credits in English and Speech, and five credits in Theatre Arts; and the joint Speech-Theatre Arts program requires 61 credits.

Speech 201, 203, 491, and 492 are required of all majors.

*General Speech sequence:* SPE 201, 203, 321, 363, 491, 492 and 20 credits of Speech electives.

*Rhetoric and Public Address sequence:* SPE 201, 203, 363, 491, 492, 565, and 20 credits of Speech electives, 15 of which must be in rhetoric and public address and discussion.

*Broadcasting sequence:* SPE 201, 203, 241, 321, 491, 492, and 20 credits of Speech electives, 15 of which must be in broadcasting.

*English-Speech sequence:* SPE 201, 203, 321, either 361 or 365, 491, 492, and ten credits of Speech electives; ENG 201, 202, and 203; either 305 or 306; 307, 321, 411, and 517; and TAR 303.

*Speech-Theatre Arts sequence:* SPE 201, 203, 321, 491, 492, 521, and one 300, 400 or 500 elective in Speech; TAR 211, 221, 303, 311, 313, 411, and any two courses chosen from 431, 432, 433, 435, 436, and 437.

*Speech Science-Linguistics Sequence:* SPE 203, SPE 311, SPE 411, SPE 501, SPE 503, SPE 511, SPE 491-492; LIN 301, LIN 401, LIN 551, plus one other undergraduate linguistics course from those listed in the current catalog.

**Requirements for the M.A. Degree:**

*Requirements for Admission.* In addition to the general requirements of the University, an applicant must have an academic average of B in all Speech courses, a minimum of 18 quarter hours in Speech, and a score of 500 or higher on the verbal aptitude section of the Graduate Record Examination. All applications must be approved by the Department of Speech.

*Course Work.* A Master of arts degree in Speech requires 45 quarter hours of course work distributed in the following manner: 15 hours in Rhetoric and Public Address (to be selected from SPE 661, 662, 665, 667), 10 hours in Oral Interpretation of Literature (to be selected from SPE 521, 522, 523, 621), 5 hours of Speech Science (to be selected from SPE 501, 503, 511, 611), 5 hours in Speech Seminar (SPE 691) and 10 hours in graduate Speech electives.

For graduate Speech electives, students may substitute two courses acceptable for graduate credit in related areas, subject to approval by the Department of Speech.

*Examinations.* Each student is required to pass a comprehensive examination, both oral and written.

*Other Requirements.* Each student will select one of the plans listed below:

Plan A—An extended critical or analytical paper (thesis) in the field of Speech studies.
INTERDISCIPLINARY LANGUAGE-LITERATURE

While some departments give credit toward a major for some interdisciplinary language literature courses, all LLI courses are designed as electives for students wishing to extend their understanding of a particular field in the College and of its relationships to other fields. The courses are generally of two types:

I. Those in the history of ideas.
   LLI 301, 302 Main Currents of Western Thought I & II
   LLI 305 The Idea of Progress
   LLI 306 The Idea of Utopia
   LLI 315 The Idea of Freedom
   LLI 401 Three Central Ideas in Western Culture: Hierarchy, Mechanism and Organism
   LLI 402 Dominant Ideas in the 20th Century
   LLI 411 The Romantic Idea of the Self

II. Those relating a field outside the College to work in it.
   LLI 383, 483, 583 Selected Topics
   (courses relating the film to literature and philosophy formerly under LLI are now under Mass Communications)

The courses in Group I combine literature, philosophy and criticism to provide broad perspectives. Those in Group II are more specialized, but still combine ideas in at least two specific fields.

HUMANITIES MAJOR

A major in the Humanities is offered as an interdisciplinary program administered through the office of the Vice President for Academic Affairs. The curriculum for the Humanities major comprises interdisciplinary courses in the verbal, visual, and musical arts of specified periods and cultures.

Students interested in the Humanities major should consult the Chairman of the Humanities Program, LAN 360. The requirements for a major in Humanities are 45 credits of upper level Humanities courses (400 and 500 level) including HUM 591 plus nine credits in the creative or performing arts.

A graduate program leading to a Master of Arts in Humanities Education is available. For requirements see the College of Education.
College of
NATURAL SCIENCES

The College of Natural Sciences offers courses in astronomy (AST), biology (BIO), botany (BOT), chemistry (CHM), geology (GLY), marine science (OGY), mathematics (MTH), microbiology (BOT), physics (PHY), and zoology (ZOO).

The courses are designed for students planning scientific careers or those technical careers having a considerable component of science, such as engineering or medicine. 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. Those seeking to transfer to another university to complete a course in agriculture, home economics, pharmacy, or one of the medical professions may begin their science work here before transferring.

Students seeking a general understanding of science but not technical competence will normally wish to take the general education courses offered by the College, and augment their understanding by adding appropriate courses in the college designed for non-scientists.

Undergraduate Programs

The College offers the Bachelor of Arts degree with majors in Astronomy, Botany, Botany-Microbiology, Chemistry, Geology, Mathematics, Microbiology, Physics, Zoology, and interdisciplinary natural sciences. The College offers the Bachelor of Science degree with majors in Clinical Chemistry, Clinical Technology, and Physics.

Upon admission to the College, students preparing for a science or mathematics career must plan their courses from their freshman year because of the sequential nature of the science curricula.

Graduation Requirements

The University requirements for graduation are found on page 45 of this catalog. The College requirements for graduation are as follows:

1. 180 credits with at least a "C" average (2.0) in work done at the University of South Florida.
2. Completion of a major in a subject or an integrated major involving several subjects. There must be at least a 2.0 average in this major for all USF work.
3. Completion of courses related to or supporting a major in a subject. Items two and three should constitute approximately one-half of the student's total program.

4. Completion of a broad spectrum of general education courses distributed over several fields of human knowledge. These must include university general education requirements and any additional requirements of a particular major.

5. Completion of elective courses.

6. Work transferred from other schools will not be included in the grade point average computed for graduation. (However, graduation with honors requires a 3.5 average in USF work and also in any previous college work.)

7. A student must earn the last 45 credits in residence at the University of South Florida.
   For a more detailed description of the above requirements, consult the appropriate Departmental Requirements.

Upon admission to the College the student will declare his major and will be counseled in his selection of courses by an adviser from the major field. He will then plan the remainder of his college program to fulfill his educational needs and satisfy the requirements for the undergraduate degree. The Dean of the College will generally supervise his progress and ultimately certify the student for the degree.

Any student of the University may take courses in the College of Natural Sciences.

Advanced Placement and Waiver of Requirements

Attention is called to the possibility of waiving requirements by students who enter the University well prepared from high school. (See page 48) Waiving of a course does not give credit but increases the free electives available to the students.

In addition, by means of an examination, the student may waive certain courses or receive credit for advance placement. During the transition period of the reorganization of the university, requirements may be waived by the substitution of equivalent courses upon the recommendation of the appropriate Dean.

INTERDISCIPLINARY NATURAL SCIENCE MAJOR

The bachelor of arts in a natural science major is designed to serve students desiring a broad background, such as science teachers, pre-medical students, and other pre-professional students. Major requirements in the College of Natural Sciences are a minimum of 36 credits in the discipline of major concentration and a minimum of 24 credits in the College outside that discipline. These 24 credits must be approved by the student's advisor and must include a minimum of three at the 300 level or above. Prospective teachers should also consult the College of Education section of this catalog for information about certification requirements in the fields of science or mathematics teaching. Pre-medical and pre-dental students should contact the chairman of the Pre-Medical Advisory Committee.

The natural science major is not necessarily an adequate preparation for entrance into a graduate program in the natural sciences. To strengthen the preparation, additional science and mathematics electives beyond the minimum requirements may be recommended by the faculty adviser. By the proper ad-
dition of science and mathematics electives beyond the minimum requirements, the natural science major can serve as a strong preparation adapted for graduate work in a wide range of interdisciplinary fields such as biochemistry, microbiology, biophysics, space sciences, oceanography, geochemistry, geophysics, and others.

PRE-MEDICAL PROGRAM

The pre-medical program provides a complete array of courses and educational experiences necessary for preparing oneself for admission to medical school. Pre-medical students should major in a discipline which is of the greatest appeal to them, whether it be in the sciences or non-sciences, and fulfill all requirements in that major for graduation. The following science courses are the minimum requirements for admission to virtually every accredited medical school:

- One year of Biology: BIO 201, 202, 203.
- Two years of Chemistry: CHM 211, 212, 213, 331-332, 333-334, 335-336.

Additional science requirements vary according to the medical school to which the student will be applying. Part of these additional requirements may be fulfilled by the following courses:

- Chemistry: CHM 321, 305, 351.
- Mathematics: MTH 211, 212, 213 (or MTH 101, 302, 303, 304)
- Biology: ZOO 311, 421, 422; BIO 331.

Beyond the science course requirements, it is essential that students acquire an inventory of courses developing a sense of understanding of cultural and moral values, and basic social problems. It is understood that the quality of academic performance should be of the highest level.

It may be noted that well-prepared students with exceptional qualifications may be admitted to medical school as early as the completion of the junior year of pre-medical work.

Graduate Programs

Programs of graduate study are available in every department of the College. The Council on Graduate Study for the College is advisory to the Dean on policies and curricular matters. The specific duties of the Council are: (1) to develop and recommend policies concerning graduate study in the College (2) to examine and screen proposals on graduate programs in the several departments (3) to study the need for interdisciplinary graduate programs (4) to serve as a curriculum committee for screening proposed graduate courses (5) to monitor the admission of marginal students and make recommendations if the situation warrants such (6) to serve as a reference body on matters involving any exceptions to the existing regulations (7) to offer advice and counsel upon such other matters of concern or interest to the College or its constituent Departments as are brought to the attention of the Council.

MASTER'S DEGREE PROGRAMS

The College of Natural Sciences offers graduate programs leading to the Master of Arts degree in the fields of Astronomy, Botany, Geology, Marine Science, Mathematics, Microbiology, Physics, and Zoology and a Master of Science in Chemistry.
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 67-69. The specific requirements for each department are listed under that department below. Further information regarding admission and available fellowships and assistantships may be obtained by writing to the proper departmental chairman.

DOCTOR'S DEGREE PROGRAM

The College of Natural Sciences offers three programs leading to the degree of Doctor of Philosophy.

Biology—This program leads to the Ph.D. in Biology, including the fields of Marine Biology, Systematics, Behavior, Ecology and Physiology.

Chemistry—This program leads to the Ph.D. in Chemistry, including the fields of Analytical, Biochemistry, Inorganic, Organic and Physical Chemistry.

Mathematics—This program leads to the Ph.D. in Pure and Applied Mathematics.

The University regulations governing graduate study at the doctoral level are given on page 70. The specific departmental requirements are given on page 148 for Biology, page 152 for Chemistry and page 156 for Mathematics.

Departmental Requirements

ASTRONOMY

Requirements for the B.A. Degree:

I. ASTRONOMY REQUIREMENTS

The astronomy major must complete at least 35 hours of upper level astronomy courses including:

<table>
<thead>
<tr>
<th>Astronomy Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AST 301-302</td>
<td>10</td>
</tr>
<tr>
<td>AST 413</td>
<td>4</td>
</tr>
<tr>
<td>AST 443</td>
<td>5</td>
</tr>
<tr>
<td>AST 521 or</td>
<td></td>
</tr>
<tr>
<td>AST 522 or</td>
<td>12-15</td>
</tr>
<tr>
<td>AST 533 or</td>
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<tr>
<td>AST 536 or</td>
<td></td>
</tr>
<tr>
<td>AST 583</td>
<td></td>
</tr>
<tr>
<td>AST 361 or</td>
<td>3-6</td>
</tr>
<tr>
<td>AST 481</td>
<td>1-2</td>
</tr>
</tbody>
</table>

Total Hours 35-42
II. SUPPORTING COURSES

Required:  

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 302-305 and MTH 421</td>
<td>21</td>
</tr>
<tr>
<td>PHY 201-206 and PHY 315</td>
<td>18</td>
</tr>
<tr>
<td>or PHY 301-306</td>
<td>12</td>
</tr>
</tbody>
</table>

At least three of the following Physics courses: (9-12 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 307</td>
<td>3</td>
</tr>
<tr>
<td>PHY 309</td>
<td>4</td>
</tr>
<tr>
<td>PHY 323</td>
<td>4</td>
</tr>
<tr>
<td>PHY 331</td>
<td>4</td>
</tr>
<tr>
<td>PHY 405</td>
<td>3</td>
</tr>
<tr>
<td>PHY 407</td>
<td>3</td>
</tr>
<tr>
<td>PHY 437</td>
<td>3</td>
</tr>
<tr>
<td>PHY 541</td>
<td>4</td>
</tr>
</tbody>
</table>

At least one of the following Mathematics courses: (3-5 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 323</td>
<td>4</td>
</tr>
<tr>
<td>MTH 345</td>
<td>5</td>
</tr>
<tr>
<td>MTH 431</td>
<td>3</td>
</tr>
<tr>
<td>MTH 445</td>
<td>3</td>
</tr>
<tr>
<td>MTH 447</td>
<td>4</td>
</tr>
</tbody>
</table>

Total hours 45-56

III. LIBERAL EDUCATION COURSES

The Astronomy major must satisfy the General Education Requirements of the University (38-40 hours, assuming implied waivers). He must also include (or show competence in) one of the following sequences:

<table>
<thead>
<tr>
<th>Sequence</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBS 111-112 (5, 5)</td>
<td>Functional French</td>
</tr>
<tr>
<td>CBS 114-115 (5, 5)</td>
<td>Functional German</td>
</tr>
<tr>
<td>CBS 117-118 (5, 5)</td>
<td>Functional Russian</td>
</tr>
</tbody>
</table>

He must complete 24 hours, with no more than 12 hours from any one department, approved by the chairman of the Astronomy department from the following colleges:

- College of Fine Arts
- College of Language & Literature
- College of Social & Behavioral Sciences

Total hours 62-64

IV. FREE ELECTIVES

The student is expected to familiarize himself with the technique of programming electronic computers before the end of the sixth quarter.

Total hours 18-38

SUMMARY OF REQUIREMENTS FOR B.A. DEGREE:

- Astronomy 35-42
- Supporting Courses 45-56
- Courses Outside College of Natural Sciences 62-64
- Free Electives 18-38

Requirements for the M.A. Degree:

General requirements for graduate work are given on pages 67-69.
A minimum of 45 credits must include at least 24 for courses numbered 600 or higher and at least 18 for structured astronomy courses numbered 500 or higher. It will be assumed that the student knows enough mathematics and physics to follow any astronomy courses required in his curriculum. No credit is available for courses numbered 499 or lower which the student takes in order to make up for his initial deficiencies in this respect. Since candidates for the graduate degrees in astronomy may have a variety of backgrounds, including majors in astronomy, mathematics, or physics, the required course of studies may vary considerably among students.

A thesis is required, which must be based on original work. The student must also demonstrate, before the degree is granted, his ability to translate into English the pertinent scientific literature in at least one of the foreign languages: German, French or Russian.

**BIOLOGY**

Requirements for the B.A. Degree:

Although there are specific course requirements for majors in the various subdisciplines of biology, all require study in certain basic areas of the biological and physical sciences. Modern biology is characterized by a marked interdisciplinary trend so that only students well grounded in ancillary fields like chemistry, mathematics and physics will be competitive for jobs and further study after completion of their baccalaureate degree.

Four specific curricula are available for the student interested in Biology. All curricula prepare the student for further graduate work, or for a terminal degree in the biological science.

For convenience, a tabulation comparing the various options available to the student interested in a major in biology is shown below. Although the options differ in detail there is considerable communality in the requirements. For example, all curricula require BIO 201-203, BIO 331, at least one course in mathematics, one year of general physics (PHY 201-206) and two years of chemistry (CHM 211-213, CHM 331-334, 335-336 or 351).

<table>
<thead>
<tr>
<th>I. Biology courses:</th>
<th>II. Other College of Natural Sciences Courses:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BOTANY</strong></td>
<td><strong>MICROBIOLOGY</strong></td>
</tr>
<tr>
<td>BIO 201-203 12</td>
<td>BIO 201-203 12</td>
</tr>
<tr>
<td>BIO 331 5</td>
<td>BIO 331 5</td>
</tr>
<tr>
<td>BOT 351 5</td>
<td>BOT 351 5</td>
</tr>
<tr>
<td>BOT 302 5</td>
<td>BOT 302 5</td>
</tr>
<tr>
<td>BOT 491 1</td>
<td>BOT 491 1</td>
</tr>
<tr>
<td>BOT electives 12</td>
<td>BOT electives 12</td>
</tr>
<tr>
<td>ZOO-BIO electives 5</td>
<td>ZOO-BIO electives 5</td>
</tr>
<tr>
<td><strong>45</strong></td>
<td><strong>45</strong></td>
</tr>
<tr>
<td><strong>II.</strong></td>
<td><strong>211</strong></td>
</tr>
<tr>
<td>MTH 101 or 211</td>
<td>4</td>
</tr>
<tr>
<td>CHM 211-213 12</td>
<td>12</td>
</tr>
<tr>
<td>CHM 331-334 10</td>
<td>10</td>
</tr>
<tr>
<td>CHM 335-336 Electives from</td>
<td>Electives from</td>
</tr>
<tr>
<td>or CHM 351 4-5</td>
<td>CHM 335-336</td>
</tr>
<tr>
<td>PHY 201-206 15</td>
<td>15</td>
</tr>
<tr>
<td><strong>46-47</strong></td>
<td><strong>45-46</strong></td>
</tr>
</tbody>
</table>
III. Liberal Education Courses

University General Education requirements (assuming implied waivers):

| 39-41 | 39-41 | 48-50 | 29-31 |

24 hours, with no more than 12 hours from any one department, approved by the chairman of the Biology department from the following colleges:

- College of Fine Arts
- College of Language & Literature
- College of Social & Behavioral Sciences

IV. Free Electives:

| 23-26 | 24-27 | 21-23 | 26-29 |

The sequencing of courses is especially important for cognates as well as the area of emphasis: BIO 331 builds on the subject matter of BIO 201-203 and CHM 211-213; BOT 351 assumes a knowledge of the subject matter of BIO 201-203, BIO 331 and CHM 331-334; and ZOO 421 should not be taken before completion of CHM 335-336. Physics should be completed no later than the end of the junior year. Reading knowledge of a modern foreign language (German, French or Russian) is strongly recommended, especially for those who intend to enter graduate school.

An undergraduate major in one of the subdisciplines of biology prepares a student for a career in teaching, agriculture, medicine, dentistry, technology or further (post-graduate) study in biology. A suggested plan of study in each of the major options available may be obtained from faculty advisers.

Requirements for the M.A. Degree:

General requirements for graduate work are given on pages 67-69.

**Major in Botany or in Microbiology:** Students are admitted for graduate work in Botany or in Microbiology if they present the requisite background in the biological sciences. The bachelor of arts or bachelor of science degree with a major in botany, zoology, microbiology, biology, or the physical sciences is recommended in addition to a satisfactory grade on the Graduate Record Examination, although students from other areas of science are welcome.

For a master's degree in Botany or in Microbiology, a minimum number of 45 credits is required of which: (1) a minimum of 24 credits in courses numbered 600 or above, (BOT, BIO or ZOO prefix) no more than 9 of which may be given for research (BOT 681) graduate seminar (BOT 691) or thesis (BOT 699); and (2) the remaining credits must be taken in courses numbered 400, 500 or above to meet the requirements of a minimum of 45 credits. Other requirements are: (3) completion of a master's thesis approved by the student's committee or an equivalent amount of course work approved by the student's major adviser, and (4) satisfactory performance on a final oral examination administered by the student's committee within the department.

**Major in Zoology:** A minimum of 45 credits must include 22 in biology courses (BIO, BOT, or ZOO prefixes) numbered 600 or above, not more than nine of which may be for the thesis. Other requirements are completion of a Master's thesis approved by the student's committee and satisfactory performance on a final oral examination given by the Department. Reading knowledge of one foreign language may be required by the student's committee.

Requirements for the Ph.D. Degree:

**Doctorate in Biology:** The Ph.D. in Biology is offered in the fields of Marine Biology, Systematics, Behavior, Ecology, and Physiology. It is a cooper-
ative effort involving many disciplines. The department chairman is responsible for advising the student to (a) work toward his M.A. first or (b) work directly toward his Ph.D.

Students advised to work toward the Ph.D. will have a supervisory committee appointed as soon as possible and including at least one member from a discipline outside the student's field of concentration. The committee shall approve the course of study to be followed by the student, supervise his research, conduct his qualifying and final oral examinations, and approve his doctoral dissertation. The student's major professor will serve as chairman of his committee until the final oral examination.

The Admission to Candidacy will be issued by the Dean of the College upon receipt of a statement from the supervisory committee through the department chairman indicating that the student has successfully completed his language and qualifying examinations. In order to gain the experience that comes from teaching, satisfactory service as a teaching assistant for one academic year is required (unless a specific exemption is recommended by the supervisory committee). The student is expected to complete all course work stipulated by his committee with at least a B (3.00) overall average.

In general, the final oral examination will be a defense of the dissertation; however, other areas of the student's work may also be included. After all the above requirements are completed, the Chairman of Biology will certify to the Dean of the College that the candidate is eligible for the degree.

**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. Summer courses are given at the St. Petersburg campus and include ZOO 546-547—Marine Invertebrate Zoology, BOT 543—Phycology, ZOO 519—Ichthyology, ZOO 623—Physiology of Marine Animals, ZOO 633—Physiology of Fishes and ZOO 615—Plankton Systematics. Interested students should see the chairman of the Biology department for further advice. See also the offering in the Program of Marine Science.

**CHEMISTRY**

Requirements for the B.A. Degree:

I. *Chemistry Courses*  

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 211-213</td>
<td>12</td>
</tr>
<tr>
<td>CHM 321</td>
<td>5</td>
</tr>
<tr>
<td>CHM 331-336</td>
<td>15</td>
</tr>
<tr>
<td>CHM 441-443</td>
<td>12</td>
</tr>
<tr>
<td>CHM 445-447</td>
<td>11</td>
</tr>
<tr>
<td>CHM 491</td>
<td>2</td>
</tr>
</tbody>
</table>

Total hours in Chemistry = 57

II. *Other College of Natural Sciences Courses*  

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 302-304</td>
<td>13</td>
</tr>
<tr>
<td>PHY 201-206 (or 301-306)</td>
<td>12-15</td>
</tr>
</tbody>
</table>

25-28

III. *Liberal Education Courses*  

General Education requirements of  

University (assuming implied Waivers) = 38-40
24 hours, with no more than 12
hours from any one department,
approved by the chairman of the
Chemistry department from the
following colleges:
College of Fine Arts
College of Language & Literature
College of Social & Behavioral Sciences

IV. Free Electives

Summary of Requirements for B.A. Degree

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry</td>
<td>Other Sciences</td>
<td>Liberal Education</td>
</tr>
<tr>
<td>57</td>
<td>25-28</td>
<td>62-64</td>
</tr>
<tr>
<td>Free Electives</td>
<td>31-36</td>
<td></td>
</tr>
</tbody>
</table>

180

Students should keep in mind that CBS 208-209-210 and CBS 109-110 can be waived by taking the required courses listed above. The required sequence should be started immediately in the freshman year and the student should not register for any CBS course that can be waived. The student should plan to complete the mathematics and physics requirements before the junior year so the CHM 441 can be taken at that time.

The above courses constitute a minimum curriculum for the B.A. in Chemistry. It is recommended that this program be strengthened with additional courses to be selected by the student in consultation with his faculty adviser.

ACS Approved Program. The following program is intended primarily for the student who plans to make chemistry his profession. The program is open to all chemistry majors. Students who complete this program will be certified to the American Chemical Society as having met the minimum requirements for a professional degree. The program consists of satisfactory completion of the above chemistry, mathematics, and physics courses plus the following courses: MTH 305, CHM 511, another 400 or 500-level course in chemistry, and a reading knowledge of one modern foreign language. Other advanced chemistry, physics, mathematics, or biology courses should be taken if the student anticipates pursuing graduate work in chemistry.

Requirements for the B.S. Degree in Clinical Chemistry

A new program leading to a B.S. degree in clinical chemistry is being offered by the Department of Chemistry. This program, one of only three available in the country, will train chemists for a new and growing field serving the medical profession. This program is built upon a strong background of chemistry, biology, and related sciences. Graduates of this program could go on to graduate school in clinical chemistry, biochemistry, or even medical school. Interested students should see the Chairman of the Chemistry department for further advice. A B.S. degree in clinical chemistry must include the following courses:
Freshman year: CHM 211, 212, 213; MTH 302, 303, 304; BIO 201, 202, 203.
Sophomore year: CHM 331, 332, 333, 334, 335, 336; CHM 321; PHY 301, 302, 303, 304, 305, 306; BIO 315.
Junior year: CHM 441, 443; CHM 523; CHM 351; BIO 321; BIO 351.
Senior year: CHM 521; CHM 483; EGB 231, 232; Biochemistry Laboratory, Clinical Chemistry Methods, and Clinical Practices.*

*New courses in these areas will be instituted during the 1972-73 academic year.

Requirements for the B.S. Degree in Clinical Technology

A B.S. degree program in clinical technology is also available in the Department of Chemistry and is designed primarily for the student who does not plan to continue his graduate training, but who will be very useful at the technologist level. There is a definite need for graduates of this type of program. A B.S. degree in clinical technology must include the following courses:

Freshman year: CHM 211, 212, 213; MTH 211, 212, 213; BIO 201, 202, 203.
Sophomore year: CHM 303; CHM 321; PHY 201, 202, 203, 204, 205, 206; BIO 315.
Junior year: CHM 305; CHM 523; CHM 351; BIO 321; BIO 351.
Senior year: CHM 521; CHM 483; EGB 231, 232; Biochemistry Laboratory, Clinical Chemistry Methods, and Clinical Practices.*

*New courses in these areas will be instituted during the 1972-73 academic year.

Requirements for the M.S. Degree:

General requirements for graduate work are given on pages 67-69.

All entering graduate students who have no advanced work beyond a B.A. or B.S. will be required to take the core course in each of the five areas: analytical, biochemistry, inorganic, organic, and physical chemistry. This requirement can be waived by recommendation of the advising 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 CHM 621, CHM 511, CHM 551, CHM 532, CHM 542.

Beyond the required core courses, the curriculum for a chemistry major will vary with the area of his thesis. The specific course requirements will be determined by his advisory committee and his proposed research, in consonance with the regulations given on page 152.

Comprehensive Examination. Each student must pass the written comprehensive examinations in three of the five areas: analytical, biochemistry, inorganic, organic, and physical chemistry. Each examination will be prepared by the faculty of that area and will be from one to three hours duration. Each examination will be graded independently by members of the respective areas each arriving at a fail-pass-high pass verdict. A student may repeat any or all of the examinations provided that he has passed three by the time six quarters have elapsed from his admission as either a degree-seeking or a non-degree seeking full-time graduate student. Normally, the examinations will be given during the period preceding Quarters I and III and after the preceding quarters have ended.

While it is anticipated that the core courses will bridge the gap between undergraduate and graduate courses, and will therefore help students prepare
for the qualifying examinations, it should be understood that the qualifying examinations are general examinations in their respective fields and not merely final examinations in the core 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 required to pass an oral examination conducted by the supervisory committee on his research. Final approval of the examination and of the thesis will require approval by the entire committee.

**Requirements for the Ph.D. Degree:**

General requirements for graduate work are given on pages 70-71.

The Ph.D. in Chemistry does not require a specific number or distribution of course credits. The candidate, with the help of his adviser and the approval of his advisory committee, will design a program of study and research that will result in a mature and creative grasp of chemical science. Approval of the candidate's program will rest with his advisory committee.

While there are no specific course requirements for the Ph.D. degree, beginning graduate students who plan to circumvent the M.S. degree are advised to take the core courses or their equivalent before attempting the Qualifying Examinations.

**Qualifying Examinations.** The Qualifying Examinations requirement for the Ph.D. degree will be the same as the comprehensive examination for the M.S. degree except that the Ph.D. candidate must not only pass the examinations in three out of five areas, but he must also pass two of these examinations (one of which is in his major area) "with distinction". In other words, the Ph.D. candidate must demonstrate his very real grasp of the principles in his major area and one other area (probably related to his major area, but not necessarily so). As in the case of the M.S. requirements, a student may repeat any or all examinations, provided that he has passed three, two with high pass, by the time six quarters have elapsed from his admission as either a degree-seeking or non-degree seeking full-time graduate student. The Qualifying Examinations shall be given in the form of one to three hour examinations in each of the five areas—analytical, biochemistry, inorganic, organic, and physical.

While it is anticipated that the core courses will bridge the gap between undergraduate and graduate courses, and will therefore help students prepare for the qualifying examinations, it should be understood that the qualifying examinations are general examinations in their respective fields and not merely final examinations in the core courses.

**Language Examinations.** Before a student is eligible to qualify for candidacy for the Ph.D. degree, he must demonstrate 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); or he must demonstrate reading knowledge in one of these languages and demonstrate proficiency in a skill or specialization outside the discipline of chemistry. The latter could include (1) proficiency in computer programming; (2) advanced specialization in mathematics, physics, biology, geology, or any other appropriate area pertinent to scholarly work in chemistry; (3) any other field of advanced study of proficiency deemed appropriate by the supervisory committee.

The language requirement must be met by one of the following: (1) reading knowledge in two foreign languages as demonstrated by a test to be specified; (2) reading knowledge in one foreign language and some other proficiency such as computer programming; (3) in-depth knowledge of
one foreign language (speaking and reading knowledge); (4) three quarters of a foreign language at the college level with a minimum of C grade in each quarter may be used to waive one language, or, if two foreign languages are taken, the language requirement is fulfilled; (5) periodic translations to be administered by the student's supervisory committee.

The language requirement must be met one year before graduation.

Major Comprehensive Examination. A comprehensive major examination will be required of Ph.D. candidates sometime after satisfactory completion of the qualifying examination. This examination must be taken one year before graduation.

Advancement to Candidacy. Completion of all the foregoing requirements admits the student to candidacy for the Ph.D.

Final Thesis Defense. Upon completion of the dissertation research and approval of the dissertation by the supervisory committee, the Ph.D. candidate will give a public oral presentation of his research. This presentation can be scheduled only after all members of the supervisory committee have approved and signed the final form of the dissertation. The oral presentation will be chaired by a member of the faculty outside of the Department of Chemistry appointed by the Dean of the College. The candidate may expect questions concerning the details and significance of his research after the oral presentation. Final approval of the candidate's degree will require approval by a majority of the supervisory committee, which shall include the chairman of the oral presentation.

GEOLOGY

Requirements for the B.A. Degree:

I. Geology Courses
   
<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLY 201</td>
<td>5</td>
</tr>
<tr>
<td>GLY 301</td>
<td>4</td>
</tr>
<tr>
<td>GLY 302</td>
<td>4</td>
</tr>
<tr>
<td>GLY 303</td>
<td>4</td>
</tr>
<tr>
<td>GLY 311</td>
<td>4</td>
</tr>
<tr>
<td>GLY 361</td>
<td>5</td>
</tr>
<tr>
<td>GLY 412</td>
<td>4</td>
</tr>
<tr>
<td>GLY 503 or 504</td>
<td>4</td>
</tr>
<tr>
<td>GLY 513</td>
<td>5</td>
</tr>
<tr>
<td>GLY 531</td>
<td>4</td>
</tr>
<tr>
<td>GLY Electives</td>
<td>7</td>
</tr>
</tbody>
</table>

   Total Hours in Geology 50

II. Other College of Natural Sciences Courses
   
<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 101 or 211 or 302</td>
<td>5</td>
</tr>
<tr>
<td>PHY 201-206 or 301-306</td>
<td>12-15</td>
</tr>
<tr>
<td>CHM 211, 212, 213</td>
<td>12</td>
</tr>
<tr>
<td>Biology Electives</td>
<td>12</td>
</tr>
<tr>
<td>Note, 371 sequence courses will not be accepted.</td>
<td></td>
</tr>
</tbody>
</table>

   Total 44
III. Liberal Education Courses
University General Education requirements (39-41 hours, assuming implied waivers).

24 hours, with no more than 12 hours from any one department, approved by the chairman of the Geology department from the following colleges:
- College of Fine Arts
- College of Language & Literature
- College of Social & Behavioral Sciences

Total 63-65

IV. Free Electives

SUMMARY OF REQUIREMENTS FOR B.A. DEGREE

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geology courses required</td>
<td>50</td>
</tr>
<tr>
<td>Other College of Natural Sciences Requirements</td>
<td>41-44</td>
</tr>
<tr>
<td>Liberal Education courses</td>
<td>63-65</td>
</tr>
<tr>
<td>Free Electives</td>
<td>21-26</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>180</strong></td>
</tr>
</tbody>
</table>

The student will choose, in consultation with his geology adviser, such courses in the College of Natural Sciences that support his major interest within the field of Geology. Selection of a foreign language, preferably French, German, or Russian, is strongly recommended, especially for those students who intend to enter graduate school.

An entering student anticipating a major in geology is advised to enroll in GLY 201, 301, and CHM 211, 212, 213 in the freshman year and to seek curriculum counseling with a Geology adviser.

All courses required for the major in geology (except GLY 481) must carry letter grades other than S or U.

Marine Geology:

One of the major divisions of marine study, marine geology, is a part of the program of the Geology Department. Courses and research in marine geoscience are conducted in the department, or in nearby marine environments. A geology major may, as a part of his program and with the guidance of his adviser, select electives from among GLY 411 Marine Geology, GLY 521 Geophysics, GLY 583 Selected Topics, and others that prepare him for graduate work. A major interested in marine geology should contact the chairman of the department for further details.

Requirements for the M.A. Degree:

General requirements for graduate work are given on pages 67-69.

Students are admitted for graduate work in Geology if they present the requisite background in geology and supporting sciences. The bachelor of arts or science degree with major in geology, mathematics or major in other natural science with strong supporting program in the geosciences is recommended. In addition, a supervised summer field course is very strongly recommended.

The curriculum for a geology major will vary with the area of his thesis. A minimum number of 45 credits is required for the master's degree of which:
a minimum of 24 credits in courses numbered 600 or above (GLY prefix); either a written thesis in a field of specialization in geology approved by the advisory committee or an equivalent amount of course work in geology approved in advance by the committee; and additional graduate credits in geology approved as part of a planned degree program to make a minimum of 45 credits beyond the bachelor's degree and exclusive of prerequisites. Satisfactory performance on a comprehensive examination is also required. All required courses applicable to the master's degree (except GLY 681, 691, 699) must carry letter grades other than S or U. Other requirements for the degree may be found on pages 67-69.

Teacher Education:
For bachelor of arts degree secondary school teachers desiring to teach science at the secondary level should include basic courses in Geology and Earth Science as part of their curriculum. Some courses also give graduate credit.

For teachers in Junior College the M.A. degree in Geology is recommended. For an alternate degree, see pages 102-103.

MATHEMATICS

Requirements for the B.A. Degree:

I. Mathematics Requirements:

Majors must complete at least 47 credits in mathematics courses above the 100 level, including MTH 302, 303, 304, 305, 309, and 323. In addition, except for majors in mathematics for teaching, at least one of the following sequences is required: MTH 405, 406; MTH 503, 514; or MTH 513, 406. Majors in mathematics for teaching must have MTH 423-424.

II. Mathematics Related Courses:

Majors must take PHY 301-302, 303-304, and 305-306 and one of the following sequences:

1. AST 301, 302 and one of AST 413, 443, 521, 522, 533 or 536.
2. BIO 201, 202, 203.
3. CHM 211, 212, 213.
4. GLY 201, 301 and one of GLY 302, 311, 361 or 412.
5. ECN 201, 202, and one of ECN 301 or 323.
6. EGB 311, 312, 313.
7. EGB 321, 322 and one of EGR 311 or 315.
8. EGB 340, 341.
9. PSY 201, 311, 312, and one of PSY 402, 403, 404, or 405.

Majors will not receive credit toward graduation for the following courses: AST 371, PHY 371, ECN 231, ECN 331, ECN 431, SSI 301. Majors wishing to take a course which requires a knowledge of statistics should take MTH 345.

III. Liberal Education Courses

Majors must satisfy the General Education Requirements of the University (39-49 hours, assuming implied waivers), and in addition must include (or show competence in) one of the following sequences:

CBS 111, 112; CBS 114, 115; or CBS 117, 118.

24 hours, with no more than 12 hours from any one department, approved by the chairman of the Mathematics department from the following colleges:

College of Fine Arts
College of Language & Literature  
College of Social & Behavioral Sciences

Courses taken by a student to satisfy the Group II (Mathematics Related) Requirements may not also be used toward this 24 credits. Courses in other departments may be substituted for courses in the above departments with the written permission of the Chairman of the Department of Mathematics. (34-49 hours)

IV. Free Electives

Suggested upper level courses for a major in mathematics and for a major in mathematics for teaching in secondary school are as follows:

Majors in Mathematics: MTH 401, 511, 520, 523, 531 and electives.
Majors in Mathematics for Teaching: MTH 345, 405, 420, 445, and 531.

Variation in course selection for special needs is to be done in consultation with the appointed adviser.

The following is suggested course program for the first two academic years:

<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>MTH 101, MTH 304, MTH 323</td>
</tr>
<tr>
<td>II</td>
<td>MTH 302, MTH 305</td>
</tr>
<tr>
<td>III</td>
<td>MTH 303, MTH 309, MTH elective (2)</td>
</tr>
</tbody>
</table>

Students with a strong background in high school mathematics may waive MTH 101 with the consent of the chairman.

Requirements for the M.A. Degree

General requirements for graduate work are given on pages 67-69.

A thesis is optional. The thesis program requires a minimum of 45 credits of course work, of which the thesis may carry three to nine credits. The non-thesis program requires 45 credits of course work. In either case, 24 hours of the course work must be taken in courses numbered 600 or above and the program must total at least 45 credits.

For each of the above programs, one of the following three 8-hour courses is required: MTH 614-615, 624-625, 632-633, and eight hours in each of disciplines — analysis, algebra, and topology. MTH 691 or MTH 681 is required each quarter, and may be omitted or taken more than six times only with the permission of the chairman.

A reading knowledge of either French, German, or Russian is required.

A comprehensive examination will be given to candidates before recommending that the degree be granted.

For bachelor of arts degree secondary teachers in mathematics, see page 89. For master of arts degree for teachers in mathematics, see page 96. For an alternative degree for teachers in junior college, see pages 102-103.

Requirements for the Ph.D. Degree

In addition to the general University requirements for the Ph.D. degree, on pages 70-71, the Mathematics department requires the following:

(1) The two languages required must be chosen from French, German, and Russian.
(2) Written preliminary examinations, usually taken during the second year, must be passed in four of the five following subjects: Algebra, Complex Analysis, Differential Equations, Real Analysis, and Topology.

(3) Specific numbers or distributions of course credits are not required. It is assumed that at this level the candidate, with the help of his adviser, and the approval of his advisory committee, will design a program of study and research that will result in a mature and creative grasp of mathematics. Approval of the student’s program will rest with his advisory committee.

**Requirements for the B.A. Degree:**

<table>
<thead>
<tr>
<th>I. PHYSICS COURSES</th>
<th>HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 201-202, 203-204, 205-206 (5-5-5) and PHY 315 (3)</td>
<td>18</td>
</tr>
<tr>
<td>or PHY 301-302, 303-304, 305-306 (4-4-4)</td>
<td>12</td>
</tr>
<tr>
<td>In addition, 33 credits of structured courses comprised of the following:</td>
<td></td>
</tr>
<tr>
<td>PHY 307-407-507 (3-3-3)</td>
<td>9</td>
</tr>
<tr>
<td>PHY 309-409-509 (4-3-3)</td>
<td>10</td>
</tr>
<tr>
<td>PHY 341, 442 (2-2)</td>
<td>4</td>
</tr>
<tr>
<td>PHY Electives</td>
<td>10</td>
</tr>
<tr>
<td>Total credits in Physics</td>
<td>45-51</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>II. SUPPORTING COURSES</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 211-212-213 (4-4-4)</td>
<td>12</td>
</tr>
<tr>
<td>MTH 101</td>
<td>5</td>
</tr>
<tr>
<td>MTH 302-303-304-305 (5-4-4-4)</td>
<td>17</td>
</tr>
<tr>
<td>MTH 401</td>
<td>4</td>
</tr>
<tr>
<td>Total science (non-physics)</td>
<td>38</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>III. LIBERAL EDUCATION COURSES</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>University General Education Requirements:</td>
<td>38-40</td>
</tr>
<tr>
<td>(assuming implied waivers)</td>
<td></td>
</tr>
<tr>
<td>Twenty-four hours, with no more than 12 hours from any one department, approved by the chairman of the Physics department from the following colleges:</td>
<td>24</td>
</tr>
<tr>
<td>College of Fine Arts</td>
<td></td>
</tr>
<tr>
<td>College of Language Literature</td>
<td></td>
</tr>
<tr>
<td>College of Social Science</td>
<td></td>
</tr>
<tr>
<td>Total credits outside science</td>
<td>62-64</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IV. FREE ELECTIVES</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A maximum of 108 credits in College of Natural Sciences courses may be applied to meet degree requirements (either BIO 201 or GLY 201, 301 may be considered exceptions to this requirement with written approval of the Chairman of the Physics department).</td>
<td>27-35</td>
</tr>
</tbody>
</table>
Selection of foreign language, preferably French, German, or Russian, is also strongly recommended. Credit will not be given for both general physics sequences (PHY 201-206 and 301-306).

Requirements for the B.S. Degree:

I. PHYSICS COURSES

PHY 201-202, 203-204, 205-206 (5-5-5)
and PHY 315 (3)  

or

PHY 301-302, 303-304, 305-306 (4-4-4)  

Plus the following:
PHY 307,407, 507 (3-3-3)  
PHY 309, 409, 509 (4-3-3)  
PHY 341, 441, (2-2)  
PHY 323, 331, 405, 437 (4-4-3-3)  
Either PHY 421, 517, or 523 (4-4-4)  
Either PHY 415, 501, or 541 (4-4-4)  

Total credits in Physics 57 - 63

II. SUPPORTING COURSES

CHM 211-212-213 (4-4-4)  
MTH 101  
MTH 302-303-304-305 (5-4-4-4)  
MTH 401  

Total science (non-physics) credits 38

III. Liberal Education Courses:
University General Education requirements (assuming implied waivers) 38 - 40
Twenty-four hours, with no more than 12 hours from any one department, approved by the chairman of the Physics department from the following colleges:
- College of Fine Arts
- College of Language Literature
- College of Social Science 24

Total credits outside science 62 - 64

IV. FREE ELECTIVES 15-23

A maximum of 108 credits in College of Natural Sciences courses may be applied to meet degree requirements (either BIO 201 or GLY 201, 301 may be considered exceptions to this requirement with written approval of the Chairman of the Physics department).
Selection of foreign language, preferably French, German, or Russian, is also strongly recommended. Credit will not be given for both general physics sequences (PHY 201-206 and 301-306).

Requirements for the M.A. Degree

In addition to a thesis, a minimum of 45 credits is required, not more than nine of which may be for thesis research and writing. Of these 45 credits, 24 must be in courses numbered 600 or above. The mathematics proficiency test is also required.

When a student is admitted to the graduate program in physics, he will consult with the Graduate Physics Adviser, who will be his course adviser and will also keep a close check on the progress of the student in his work. After the student has made a decision as to his thesis field, the duties of the Graduate Advisor will be assumed by an Advisory Committee appointed by the department chairman. The Committee Chairman will usually be the thesis supervisor. The Advisory Committee will have the right to add any special requirement to meet any deficiency in background and will administer a comprehensive examination to the student before recommending that a degree be granted.

Programs for Teacher Education:

For a B.A. degree for the secondary school teacher of physics, see page 89. For M.A. degree for teachers in physics, see page 97. For teachers in junior college, the M.A. degree in physics is recommended plus PHY 688 and PHY 689.

MARINE SCIENCE PROGRAM

The Marine Science Program of the University of South Florida has its headquarters at the St. Petersburg Campus, a former U.S. Maritime Base. There are excellent dockside and laboratory facilities and its location in a metropolitan area in the central part of the State combine to offer a unique opportunity for development of a center of excellence in graduate teaching and research in oceanography.

Requirements for the M.A. Degree in Marine Science:

General requirements are given on pages 67-69. A minimum of 45 credits must include OGY 521, 531, 541, and 551 unless the student, as determined by his graduate committee, has had the equivalent of one or more of these 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.

Courses taken in addition to those required are determined by the area of specialty in consultation with the student's graduate committee. Normally, a student entering this program spends one or two quarters in residence at the Tampa campus taking courses in those departments most closely related to his specialty. Following course work at the Tampa campus, the student may move to St. Petersburg to complete his course work and his thesis research.

PHYSICAL SCIENCE PROGRAM

The College of Natural Sciences offers an interdisciplinary course in the physical sciences containing concepts and ideas from astronomy, chemistry, geology and physics. It is designed to provide for the non-scientist a unified
picture of the physical universe, its laws and principles, as well as to give an understanding of the methodology and history of the sciences.

CBS 208-209 consists of a structured sequence whereas CBS 210 provides a number of alternatives depending upon the interest of the student.

The course is staffed by faculty members of the departments of astronomy, chemistry, geology and physics.
College of
SOCIAL & BEHAVIORAL SCIENCES

The social and behavioral sciences are concerned with man, his development, problems and institutions. They help the student to understand the world around him and to become an informed citizen. In addition, the social and behavioral sciences prepare a student for employment in business, government and social service professions, either upon graduation or upon completion of additional graduate study.

Admission to the College

Provisional admission to the College of Social and Behavioral Sciences is possible with 90 credits and a 2.0 average. Unqualified admission requires six of eight general education areas (CBS) including English, a total of 90 credits or more, and a 2.0 grade point ratio. Upon admission by application to the college office the student will declare his major and will be counseled in his selection of courses by an adviser from the major field. He will then plan the remainder of his college program to fulfill his educational needs and satisfy requirements for the bachelor of arts degree. The academic adviser for the student will generally supervise his progress. The student assumes the responsibility for meeting all University requirements.

Any student of the University may take courses in the College of Social and Behavioral Sciences. Freshmen and sophomores may wish to take social and behavioral science courses as part of their general education and as electives. Students in other colleges or adults in the community may elect social and behavioral science courses of particular interest.

Graduation Requirements

The College of Social and Behavioral Sciences currently offers one undergraduate degree: bachelor of arts. These requirements are referred to on page 45 of this catalog, but are summarized here:

1. 180 credits with at least a "C" average (2.0) in work done at the University of South Florida. At least 60 of the 180 credits must be in courses numbered 300 or above.
2. General education requirements of at least six areas fulfilled (or transferred equivalents), including CBS 101 and CBS 102 (Freshman English), plus CBS 401 (the CBS Senior Seminar).
3. Completion of a major in a subject or an integrated major involving
several subjects. There must be at least a 2.0 average in this major for all USF work. To insure breadth of experience and to preclude undue specialization, a student must earn (or show competence in) a minimum of 120 academic credits outside his discipline of concentration, including at least 90 credits outside the college of the major.

4. Work transferred from other schools will not be included in the grade point average computed for graduation. (However, graduation with honors requires a 3.5 average in USF work and also in any previous college work.)

5. A student must earn the last 45 credits in residence at the University of South Florida.

**Organization and Special Features**

The college is concerned with the broad development of students' knowledge. Thus, it offers interdisciplinary programs and limits work in any one field. The college emphasizes individual projects in many courses, laboratories, field studies, and the opportunity to earn credit through independent study and examination.

It is important that the student develop basic skills for research and creative scholarship; hence the provision of senior seminars and special courses on research methodology. These skills are important for the critical appraisal of scholarly work even though the student might not go on to graduate study. There is opportunity from time to time for students to collaborate with their professors on research projects and to render services to the community.

**Curricula and Programs**

The College of Social and Behavioral Sciences offers a major in 13 fields as described in the following pages. The student must fulfill all the requirements indicated or receive written permission from the department chairman for any substitution or exemption.

In addition to the departmental majors, interdisciplinary majors are offered in Interdisciplinary Social Science (which includes a concentration in Police Administration), International Studies, and special areas such as Social Science Education described in the College of Education section of this catalog.

The College of Social and Behavioral Sciences offers majors in Afro-American Studies, Aging Studies, Anthropology, Geography, History, Political Science, Psychology, Rehabilitation Studies, Sociology, and Speech Pathology and Audiology. Economics offers two majors, one in the College of Social and Behavioral Sciences and the other in the College of Business Administration. Leisure Studies and Social Problems Studies also provide research and additional opportunities in these fields.

Most of the social science majors require statistics. The student should take elementary college mathematics courses to prepare him for statistics. All social and behavioral sciences require clarity and accuracy of English expression.

Graduate level courses are now offered in most social and behavioral science areas and the master of arts degree is offered in Aging Studies, Geog-
raphy, History, Political Science, Psychology, Rehabilitation Studies, Sociology, and Speech Pathology and Audiology. A master of science degree is also offered in Speech Pathology and Audiology. The doctor of philosophy degree is offered in Psychology.

AFRO-AMERICAN STUDIES

The major consists of 56 hours, 28 of which must come from the core (AFA 130, 261, 262, 302, 410, 481) and the remainder from the other three areas of the program: African studies, political and social issues, and humanistic studies. A close contact with the Black community of Tampa is an integral part of the program and each student is expected to participate fully in community activities.

It is required that each student pursuing this major will devote at least four hours to AFA 481 (Research and Field Studies) and present a senior paper to the faculty of Afro-American Studies on this work.

AGING STUDIES PROGRAM

Requirements for the M.A. in Gerontology:

Students from a wide variety of undergraduate backgrounds are admitted for graduate work in gerontology. Priorities for admission and stipends are based on work experience, Graduate Record Examination scores, and grade point ratio.

The M.A. in Gerontology requires a minimum of 54 quarter hours in approved courses including 12 hours of field placement. Of the 54 hours, 47 hours must be in courses labeled "AGE." Required courses for the M.A. degree include AGE 501, 502, 503, 507, 603, 606, 610, 691, 692, 693, 694, and 695. Majors are also required to take a minimum of 6 hours from the following: AGE 504, 509, 605, 608, 611, 612, and 585. Electives from other departments must be approved by the student's adviser. There are no language or thesis requirements.

ANTHROPOLOGY

The major in Anthropology consists of a minimum of 44 quarter hours in the field. Students may take more than this minimum if they desire. The major must include ANT 201, which is prerequisite to all subsequent courses. ANT 311, 321, 331 and LIN 301 are required as intermediate level training in the main subdivisions of the field and ANT 461 and ANT 491 complete the specific course requirements. Majors may not include more than two each of any of the 400-level courses in the total of the 44 quarter hours required. Anthropology majors are strongly urged to take Social Science Statistics (SSI 301) or the equivalent, and to become competent in the use of a foreign language. Exceptions to course prerequisites require the consent of the instructor.

Anthropology-Linguistics Major

This sequence is designed for students who are particularly interested in the role of language in human behavior and cultural development. It requires the following eight courses in Anthropology: ANT 201, ANT 311, ANT 321, ANT 331, ANT 401, ANT 461, ANT 491 and ANT 431 or ANT 441. It requires the following six linguistics courses: LIN 301, LIN 530, LIN 551, and SPE 503, and any two courses from the following group: LIN 511, LIN 540, LIN 541, LIN 543, CLS 571, ENG 518, PHI 531, PSY 441 or SSI 311.
ECONOMICS

The social and behavioral science major in economics requires 57 credits in economics, including ECN 201-202, 231, 301, 323, 331, 401, ACC 201-202-305, and 17 hours of upper level electives in Economics.

GEOGRAPHY

Requirements for the B.A. Degree:

A major in geography consists of 50 quarter hours in geography courses, including GPY-301-302-303; 403 (Meteorology) and one additional 403 course; two 405 courses; 371 or 407; 409 (Cartography) and one additional 409 course.

Requirements for the M.A. Degree:

General requirements for graduate work are given on pages 67-69.

All students must complete 45 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 ability 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 requirement.

Thesis Program: The 45 credit hours in geography must include: GPY 501, 503, 505, 507, 603, 605, 607, and 689. Up to 8 credits outside the department may be elected with the approval of the student’s committee and major professor. An oral defense of the thesis is required.

Non-Thesis Program: The 45 credit hours in geography must include: GPY 501, 503, 505, 507, 601, 603, 605, 607, and 689. Up to 4 credits outside the department may be elected with the approval of the student’s committee and major professor.

HISTORY

Requirements for the B.A. Degree:


A minimum of 48 quarter hours is required for a major. From Part I, HTY 100 and any other two of the following sequences are required: HTY 201, 202; HTY 221, 222; HTY 231, 232; or HTY 251, 252. With the consent of a departmental adviser, cross-selection may be permitted. From Parts II and III, a minimum of sixteen hours is required in 300 or above level courses.
Of these sixteen hours, twelve must be taken within one of the six fields. From Part III, at least one HTY 591 (Pro-Seminar), HTY 587, and HTY 592 are required (HTY 587 and 592 should be taken during the senior year). CLS 321, 527, and 529 will be accepted toward satisfying the requirements in the field of Ancient History.

History majors, in addition, should take SPE 201 (Fundamentals of Speech), ENG 325 (Advanced Expository Writing) and at least 27 quarter hours drawn from the following disciplines: Anthropology, Economics, Geography, Political Science, Psychology, Philosophy, 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. Majors, whether intending graduate work or not, should have at least two courses from the Interdisciplinary Social Science Program.

Requirements for the M.A. Degree:

The graduate curriculum in History is composed of a core program, a thesis and course work in the following fields: Field I, American History to 1865; Field II, American History since 1865; Field III, Early Modern European History; Field IV, Modern European History; Field V, Ancient and Medieval History; Field VI, Latin American History; and Field VII, Comparative History.

In addition to the general requirements of the University, a candidate is required to complete a total of 52 quarter hours, eight of which shall comprise a thesis. At least 30 quarter hours must be in formal regularly scheduled course work, 24 of which must be at the 600 level. Credit for any course work at the 400 level must be approved by the Dean of the Division and reported to the USF Graduate Council and the Dean of Academic Affairs. Students applying for acceptance of work at this level must be given additional work not expected of regular students in these courses and the completed work must demonstrate a superior level of performance. Courses at the 500 level are acceptable for credit toward the master’s degree without prior approval when taken as part of a planned degree program. The core courses, HTY 600, 601, are required of all candidates.

A reading proficiency in one foreign language must be demonstrated. A satisfactory preparation in the core program, two fields, the completion of a comprehensive examination, and a thesis are required for graduation.

INTERDISCIPLINARY SOCIAL SCIENCES

The Department of Interdisciplinary Social Sciences is responsible for offering two types of courses: (1) a series of courses which provide the social science facet of that part of a formal university education which should be common to all graduates of the University of South Florida; and (2) courses designed to deal with cross-disciplinary problems in the social sciences by using the "convergence" concept of interdisciplinary treatment. Its courses are provided as a service to all interested departments of the University. Certain of the courses offered by the department are either required or recommended by a number of departments in other colleges within the University and by several interdisciplinary degree programs.

The department coordinates an interdisciplinary Social Science college major which is designed to provide broad training for superior students whose interests or vocational objectives cross disciplinary lines. (Students who have difficulty maintaining a B average or students with restricted interests should
not attempt it.) It requires 64 credits in the college, with at least 20 credits in one discipline, to be selected with the consent of the major adviser. A minimum of three courses in Interdisciplinary Social Sciences (prefix "SSI"), including SSI 301, is required. At least 40 of the 64 hours required must be upper level.

Students who wish to may concentrate their college major to constitute an emphasis on law enforcement. Students wishing this concentration must complete the following specific courses: SOC 201, 301, 331, 371, 561, 563; PSY 201, 355; POL 351, 432 and either 453 or 454; SSI 301, and 415. Additional requirements are three Social Science electives, 2 of which must be SSI courses.

A different kind of interdisciplinary major for prospective teachers of social studies is described under the College of Education requirements.

INTERNATIONAL STUDIES

Three programs are currently offered in International Studies: International Relations, Non-Western Studies, and Latin American Studies. The core curriculum common to the three includes four courses: ANT 201, ECN 201-202, GPY 371. Eighteen credits of an appropriate foreign language above the 100 level (or equivalent proficiency) are required.

Each student's program must be planned with the international studies adviser, who is empowered to make appropriate substitutions when educationally justified. All three majors are encouraged to take ENG 325 (4) and SPE 201 (5) or 363 (5).

Additional special requirements in the three programs follow. Up to nine credits may be substituted for these requirements by successfully passing CBS 395, Overseas Study.

International Relations


Non-Western Studies

Non-Western Studies majors must select 11 courses from the list below, from at least three departments, and including a minimum of 6 courses of Non-Western content (indicated by asterisks): ANT 331, 441* (Asia or Africa), ECN 351, 405: GPY 405 (political), 407* (Asia or Africa); HTY 409, 410, 461* HUM 539*, 540* 541* 542*, 543*; POL 331*, 338, 410*, 421*, 428, 438, 561*; SOC 371, 541, 571; SSI 343*, 345*, 347*, 361*, 449*, 450*, 481*, 485*, 491*, 505, 583.

Latin American Studies

Latin American Studies majors must select 11 courses from the list below, from at least three departments, and including a minimum of 6 courses of

American Idea (CBS 301, 302), meeting general education requirements, are provided through this program.

LEISURE STUDIES PROGRAM

The Leisure Studies Program is perhaps the only university agency in America devoted entirely to the subject of leisure in the broadest sense: a concern with the total pattern of work and nonwork trends of the post-industrial society related to cybernation, increases in bulk time, flexible work patterns, urbanization, changing values, public policy, expenditures for recreation, and new demands on education and other social institutions. This is done through conferences, consultations, field research, lectures, writings and newsletters, workshops and seminars. Its quarterly Newsletter is widely distributed; Technology, Human Values and Leisure (Abingdon Press, 1971) results from one of its conferences. The USF Program represents the United States in a research team including France, West Germany, Canada, Sweden, Switzerland, Poland, Bulgaria, and Czechoslovakia. Students in the introductory and advanced seminars participate in field studies, such as family interviews, questionnaire surveys, and observations of activities.

Courses staffed by Leisure Studies and offered through the Interdisciplinary Social Science Department:

SSI 413* Leisure in Society
SSI 581 Special Topics in Leisure

POLITICAL SCIENCE

Requirements for the B.A. Degree:

The undergraduate curriculum in political science is composed of POL 199 or 201 or 203 and SSI 301 as core courses and the following fields, Field I, American Government, consisting of courses POL 338, 341, 345, 347, 431, 432, 434, 441, 443, 455, 463, 530; Field II, Public Administration and State and Local Government, consisting of courses POL 351, 453, 454, 455, 457, 520, 527; Field III, Political Theory and Philosophy, consisting of courses POL 343, 431, 443, 461, 462, 463, 464; and Field IV, Comparative Politics and International Relations, consisting of courses POL 311, 331, 333, 338, 405, 410, 415, 421, 425, 428, 436, 438, 550, 561.

A minimum of 44 quarter hours is required for a major. The core curriculum consists of 8 quarter hours and, in addition, the student must take at least one course each from three of the four fields with a total of nine courses and 36 quarter hours. While some courses may be listed under two fields, a course may be used only once to fill a field requirement.

Requirements for the M.A. Degree:

General requirements for graduate study are given on pages 67-69.

The student must complete a minimum of 45 quarter hours of graduate level courses. At least 24 hours must be at the 600 level. The minimum of 30 quarter hours must be taken in formal, regularly scheduled classes, 15 hours of which must be at the 600 level. Courses at the 500 level are acceptable
for credit towards the master's degree when taken as part of a planned degree program, approved by both the student's adviser and the Department of Political Science. The following courses are required of all graduate students in this program: POL 600 or POL 643 or both.

A minimum of 28 quarter hours must be taken in political science; 8 quarter hours of approved electives outside the Department, and 9 quarter hours of thesis credits. A comprehensive written examination will follow the completion of the course work.

Students who do not have an undergraduate major in political science, or its equivalent, may be admitted to candidacy in the program upon consent of the Department. Such students may be required to take additional courses beyond the minimum requirements.

A minimum of one-half of the master's degree program must be completed on campus. The student must be registered as a full-time graduate student for one quarter or two summer sessions.

REQUIREMENTS FOR PRE-LAW

Pre-law (preparation for the successful study of law) is not a prescribed program of study. No specific college major is required for admission to law school. Those students intending to pursue the study of law must obtain a bachelor of arts in an area of his personal choice.

The American Association of Law Schools suggests that students preparing for law school must acquire basic skills in: (1) Rapid reading and comprehension, and (2) the English language. Mastery of the English language, both written and oral, and ability to read rapidly and comprehensively are positively essential for successful performance in the study of law. As there is no prescribed prelegal program, any courses that help develop clear and systematic thinking, logic, command of the English language, and a broad understanding of our society would constitute sound preparation. A good lawyer must have knowledge of an understanding of the economic and social context within which legal problems arise.

Prior to admission to a law school, a student must take the Law School Admission Test (LSAT). This test is given by the Educational Testing Service at Princeton, New Jersey.

The Law School Admission Test is given simultaneously several times each year at Stetson Law School and at numerous other test centers throughout the nation. Students should plan to take the test not later than February of the year in which they make application to a law school. Information pamphlets and application blanks for the Test are obtainable from the Political Science Department, SOC 352, University of South Florida, or from Law School Admission Test, Educational Testing Service, Box 944, Princeton, New Jersey, 08540, or from the test centers.

Students wishing additional information should consult with the pre-law adviser.

PSYCHOLOGY

Requirements for the B.A. Degree:

Majors must complete at least 38 quarter hours in the field. All majors must complete PSY 201, SS1 301, PSY 311-312 and select three of the following courses: PSY 402, 403, 404, 405. In addition, 12 elective credits in Psychology courses must be completed. PSY 411 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 M.A. Degree:

General requirements for graduate work are given on pages 67-69.

The student must complete 56 credit hours of graduate psychology courses. All students must take at least two of the three methods courses, PSY 631, 632, and 633. In addition, the student must complete a minimum of four of the following six: PSY (612 or 614), 634, 635, 636, 638, and 639. The selection of these courses will be made upon the mutual agreement of the student and his advisory committee. Students with prior work in these areas may waive any of these by successfully passing a special examination given by the psychology department. Successful waiver does not reduce the overall credit hours requirement. A research thesis, PSY 699, is required and the student must successfully pass an oral examination on the thesis as well as maintaining a B average in his course work, exclusive of 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. The program requires 8 hrs. in Statistics and Research Design; 26 hrs. in Educational and Psychological Foundations; 9 hrs. in Assessment Techniques; 4 hrs. in Consultation Techniques; and 4 hrs. in field experience. In addition, each student is required to demonstrate competency in research and to serve a full-time, two-quarter, supervised internship.

Requirements for the Ph.D. Degree:

The Ph.D in Psychology is offered in the fields of Clinical, General Experimental, and Industrial-Organizational Psychology. Specific requirements are determined by the student and his supervisory 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 70:

1) supervised undergraduate psychology teaching experience for at least one academic year.
2) a one-year internship in an approved clinical facility for Ph.D. students in the Clinical Psychology program.
3) a six-month internship in an approved industry or community agency for Ph.D. students in the Industrial-Organizational Psychology program.

REHABILITATION STUDIES PROGRAM

The Master of Arts degree in Rehabilitation Counseling is offered by the Rehabilitation Studies Program. This is a five-year master’s degree sequence requiring a minimum of 60 quarter hours. A student may enter the program during his senior year rather than after the baccalaureate degree has been granted. The following courses are considered basic to the rehabilitation counseling profession and constitute a required core for the master’s program: REH 501, REH 503, REH 507, REH 610, and REH 620. In addition to these core courses, other offerings in rehabilitation counseling include REH 502, REH 504, REH 505, REH 506, REH 604, REH 605, REH 606, REH 607, and REH 621. Twenty-six quarter hours of the student’s course work may be elected from these additional rehabilitation offerings or from related graduate programs.
Through individual counseling, vocational testing and evaluation, coordination of rehabilitation services, and a variety of related skills and techniques, the rehabilitation counselor works with other members of the rehabilitation team in assisting individuals to achieve maximum self-realization and optimal psychological, vocational, and social adjustment. The rehabilitation counselor may work in a variety of settings including state vocational rehabilitation agencies, hospitals, rehabilitation centers, sheltered workshops, vocational counseling centers, correctional institutions, schools for the mentally retarded or mentally ill, and other similar facilities.

PROGRAM FOR THE STUDY OF SOCIAL PROBLEMS

The Program for the Study of Social Problems (formerly INSTITUTE III: Exceptional Children and Adults), as a separate unit within the College of Social and Behavioral Sciences, serves four major functions. First, the Program staff plan and execute projects of theoretical and practical significance for a broad range of current social problem areas, such as the early education and training of normal and handicapped young children, the treatment of incarcerated delinquent youth, and the development of highway safety programs as they relate to drinking and driving. Second, the activities carried out within the Program are interdisciplinary in nature and serve to bring together individuals from a broad spectrum of professional backgrounds. Third, the Program serves as a focal point for research and evaluation activities of local agencies outside the University community. And fourth, the Program provides practicum settings within which students can gain experience participating in on-going field research.

SOCIOLOGY

Requirements for the B.A. Degree:

The major consists of a minimum of 40 quarter hours which must include SOC 201, 315, 321, and SSI 301; at least one course from SOC 331, 533, 535; and at least one from SOC 341, 345, 543.

The following courses may not be counted in the 40-hour minimum for the major but may be elected as additional courses: SOC 251, 481, and 505. A model program of recommended sequences may be obtained from the Sociology department.

Requirements for the M.A. Degree:

A minimum of 45 credits is required, including SOC 611, 621, 623, 691 and 692, and a thesis.

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 (SSI 301, SOC 315 and SOC 321) or equivalent. Documents are sent to the Admissions Office. Instructions for applicants are available from the Sociology department. University requirements for graduate study are given on pages 67-69.

SPEECH PATHOLOGY AND AUDIOLOGY PROGRAM

A Master of Science degree is offered through the Speech Pathology and Audiology program that is structured to meet the preparation requirements of the American Speech and Hearing Association for the Certification of Clinical Competency. In addition to the core subject material, each student may
elect to pursue a program of specialization in the areas of speech pathology, clinical audiology, or habilitative audiology.

Undergraduate students enroll in a five-year program terminating in the Master of Science degree in Speech Pathology or Audiology. Students may apply for acceptance into the M.S. degree program upon attaining Junior Class standing, completion of the SAI 300-level course sequence, and taking the Graduate Record Examination. Programs are planned through the Master's degree at the time of acceptance.

A terminal program designed to train Speech and Hearing Technologists is also offered. The 6-month curriculum prepares junior college graduates (or students who have successfully completed 90 quarter hours of academic credit or the equivalent) to work under the supervision of speech pathologists or audiologists in rehabilitative settings. Preparation of students in this program involves two University quarters or approximately 32 quarter hours of academic credit. The latter quarter consists of supervised work experience in a laboratory field setting.

Requirements for the M.S. Degree in Speech Pathology:

General requirements for graduate work are to be found in the section of this bulletin titled “Graduate Study.” A minimum of 45 credits is required as well as completion of sufficient course work and practicum to meet the American Speech and Hearing Association’s requirement for clinical certification in speech. The student with an existing Bachelor’s degree and appropriate prerequisites may plan his degree program from among the following courses: SAI 513, 571, 572, 576, 577, 578, 579, 580, 583, 620, 621, 622, 623, 675, 680, 683, 684, 685, 698, 699/681.

Requirements for the Combined Undergraduate/Graduate M.S. Degree in Speech Pathology:

A minimum total of 225 credits is required for the combined undergraduate/graduate M.S. program. In addition to General Education requirements the following courses will be required for all programs: SAI 301, 302, 311, 312, 313, 498, 513, 571, 574, 576, 577, 578, 580, 598, 620, 621, 622, 680, 684, 685, 698, 699/681.

In addition sufficient and appropriate course work (approved by a speech pathology adviser) will be included to meet the preparation requirements of the American Speech and Hearing Association for the certification of clinical competency.

Requirements for the M.S. Degree in Audiology:

General requirements for graduate work are to be found in this bulletin under the section titled “Graduate Study.” A minimum of 45 credits is required as well as sufficient course work and practicum to meet the American Speech and Hearing Association’s requirement for clinical certification in audiology. The student with an existing Bachelor’s degree and appropriate prerequisites may plan a program from among the following courses: SAI 571, 572, 573, 574, 579, 580, 598, 673, 674, 675, 676, 677, 680, 684, 685, 698, 699/681.

Requirements for the Combined Undergraduate/Graduate M.S. Degree in Audiology:

A minimum of 225 credits is required for the combined program. In addi-
tion to the General Education requirements the following courses must be included in all programs.


In addition sufficient and appropriate course work (approved by an audiology adviser) must be included to meet the preparation requirements of the American Speech and Hearing Association for the certification of clinical competency in audiology.
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. This 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 understandable 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 health care delivery system within the community hospitals and in 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 student. He 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 his chosen profession.
Admissions

Students admitted to the College of Medicine are selected on the basis of what appear 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 Pre-Clinical, Clinical, and Volunteer faculty. 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 Pre-Medical Advisory Committee as well as other letters of recommendation. The academic record and Medical College Admission Test furnished an estimate of academic achievement and intellectual competence.

Interviews are arranged for all applicants whose qualifications appear to warrant complete exploration.

All inquiries concerning admission should be directed to the Office for Student Affairs, College of Medicine, University of South Florida, Tampa, Florida 33620.

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 R.O.T.C.)

Regardless of the number of years involved in Pre-Medical training, the college credits submitted by the applicant must include the following:

- One Year - General Chemistry, including laboratory
- One Year - Organic Chemistry, including laboratory
- One Year - Physics, including laboratory
- One Year - Biology, including laboratory
- One Year - Mathematics

All applicants must arrange to take the 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. Grading of performance in academic subjects will be on a pass, fail, honors grading system, and the student must have achieved a grade of at least pass in all subjects in the curriculum.

Medical Technology Program

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.

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 be eligible for entrance into the program's fourth year, the student must have completed not less than 135 quarter
hours of work (excluding physical education courses). This work must have included the following:

1. Biological Sciences
   A minimum of 24 hours is required and at least one course in microbiology must have been included in this requirement.

2. Chemistry
   A minimum of 24 hours is required and organic chemistry must be included in this requirement.

3. Physics
   A minimum of 12 hours (one full-year course) is required. These courses must have solid academic content and may not include survey courses.

4. Mathematics
   One course in mathematics is required.

5. General Education Requirements
   Courses satisfying the general education requirements of the University of South Florida

   Required of all seniors as prerequisite for graduation. The medical technology student must complete this course during his third year.

7. Courses in non-science fields to insure a broad background.

Upon successful completion of this curriculum, recommendation of the College of Medicine, 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 begins on September 1 of each year. During this period, he will continue to be registered as a full-time student of the University and will receive a total of 45 credit hours of work in principles and practice of medical technology, clinical microscopy, clinical bacteriology, instrumental analytic techniques, hematology, and clinical chemistry. These courses will be taught at the hospital. Because they are open only to those students formally admitted to the program, they are not listed in this catalog. Students successfully completing this program will be granted a Bachelor of Science degree in Medical Technology.
College of Nursing

The College of Nursing program leads to a Bachelor of Science Degree with a major in nursing. The program is designed so that students with preparation equivalent to two full years of appropriate college study can begin courses in nursing and complete the requirements for the degree in four years of study. Progression in learning is planned to help students attain the following objectives:

1. Ability to communicate; communication meant in the broadest terms: verbal, non-verbal, written and mathematical.
2. Ability to make decisions based on relevant judgments.
3. Appreciation of human behavior and needs.
4. Comprehension of sciences basic to developing nursing theory and practice.
5. Competence in the technical skills of nursing care.
6. Ability to plan and perform nursing care.
7. Ability to direct care given by associated nursing personnel.
8. Ability to contribute to the health team as an effective professional.
9. Concern for the health of families and the welfare of the community.
10. Desire for continuous professional and personal development.
11. Interest in responsible citizenship.

Upon receiving the degree, the graduate is prepared to practice nursing in all basic fields and is eligible to write the licensing examination for registered nurse. This program will provide a basis for graduate study.

The College of Nursing is accredited by the Florida State Board of Nursing and has received Reasonable Assurance of Accreditation by the National League for Nursing.

HOW TO APPLY

Request an application indicating whether you need freshman (no previous college) or transfer application papers. Make your request to and return completed applications to:

Office of Admissions
University of South Florida
Tampa, Florida 33620.

REQUIREMENTS FOR ADMISSION

Freshman

1. Official transcript sent directly to the Office of Admissions from secondary
school verifying graduation in an academic program which included the following units:

- English—4 units
- Science—2 units (1 of biology, 1 of chemistry) In addition, physics is strongly recommended.
- Mathematics—3 units (2 of algebra, 1 of geometry).

2. Favorable recommendation from secondary school.
3. Minimum score of 300 on the Florida Twelfth Grade Test, or minimum total score of 900 on the Scholastic Aptitude Test with no less than 450 on the verbal portion, or score of 21 on the A.C.T.
4. Interview.
5. United States citizenship or verification of Declaration of Intention (Requirement to write the licensing examination and to practice nursing in Florida, Chapter 464, Florida Statutes).

Transfer

1. Official transcript sent directly to the Office of Admissions from each institution previously attended.
2. Overall average of “C” on all work attempted.
3. Eligibility to re-enter last institution attended.
4. 90 quarter hours or 60 semester hours of work in the following content areas:
   - English
   - Humanities
   - Chemistry
   - Biology
   - Physics
   - Mathematics
   - Sociology
   - Psychology
   - History
   - Political Science

COURSES IN NURSING

To be eligible to take courses in nursing all prerequisites of the freshman and sophomore years must be fulfilled with an overall average of “C” or better.

Nursing courses will be concentrated in the junior and senior years. The various subjects to be studied are Basic Nursing, Mental Health Nursing, Maternal and Newborn Nursing, Nursing of Children, Medical and Surgical Nursing, Public Health Nursing, and a concentration in a specific area of nursing.

Each nursing course will include a substantial amount of clinical experience in health agencies in the immediate and surrounding communities. Nursing students will be responsible for transportation to and from the agencies.

Courses in nursing will not be offered until Quarter I, 1973.
PHYSICAL EDUCATION – ELECTIVE

Elective Physical Education offerings are designed to provide the student with opportunities for developing desired skills and gaining insight into the role physical activity plays in his life. Laboratory experience in recognized sports activities allow the student to select and develop proficiency appropriate for leisure pursuit and/or personal development. Human movement behavior and response courses expand personal awareness of the effect of physical activity through examination of the interaction between the needs and abilities of the person and the requisites and uses of the activity. Special competency courses prepare the interested student with skills and techniques applicable for conducting or directing community activities related to sport and movement.
COURSE DESCRIPTIONS

All courses offered for credit by the University of South Florida are listed on the following pages in alphabetical order according to subject area.

The first line of each description includes the prefix and course number, title, and number of credits. Credits separated by a colon indicate concurrent lecture and laboratory courses taught as a unit:

**PHY 201-202. GENERAL PHYSICS (4:1)**

Credits separated by commas indicate unified courses offered in different quarters.

**HTY 211, 212, AMERICAN HISTORY (4,4)**

Credits separated by a hyphen indicate variable credit:

**EDR 633, PRACTICUM IN READING (3-6)**

The following abbreviations are utilized in various course descriptions:

- **PR** Prerequisite
- **CI** With the consent of the instructor
- **CC** With the consent of the chairman of the department or program
- **CR** Corequisite
- **lec-lab. Lecture and laboratory**

Course descriptions are listed under the following headings (prefix in parentheses):

- Accounting (ACC)
- Afro-American Studies (AFA)
- American Studies (AMS)
- Anthropology (ANT)
- Art (ART)
- Astronomy (AST)
- Biology (BIO)
- Botany (BOT)
- Chemistry (CHM)
- Classics and Ancient Studies (CLS)
- Cooperative Education (COE)
- Dance (DAN)
- Developmental Courses:
  - Developmental Reading (DRE)
  - Developmental Mathematics (DMA)
  - Developmental Study Skills (DRS)
- Economics (ECN)
- Education:
  - Art Education (EDA)
- Curriculum (EDC)
- Elementary Education (EDE)
- English Education (EDT)
- Foreign Language Education (EDX)
- Foundations (EDF)
- Guidance (EDG)
- Humanities Education (EDY)
- Junior College Education (EDH)
- Library-Audiovisual Education (EDL)
- Music Education (EDM)
- Natural Science-Mathematics Education (EDN)
- Physical Education for Teachers (EDP)
- Measurement-Research-Evaluation (EDQ)
- Reading Education (EDR)
- Social Studies Education (EDW)
- Special Education (EDS)
- Vocational and Adult Education (EDV)
Engineering:
- Basic Engineering (EGB)
- Electrical and Electronic Systems (EGE)
- Energy Conversion and Mechanical Design (EGR)
- Industrial Systems (EGS)
- Structures, Materials, & Fluids (EGX)
- Computer Service Courses (ESC)
- Engineering Technology (ETK)

English (ENG)
- Environment (ENV)
- Fine Arts, Intradivisional (FNA)
- General Business Administration (GBA)
- General Education (CBS)
- Geography (GPY)
- Geology (GLY)
- Gerontology (AGE)
- History (HTY)
- Honors (HON)
- Humanities (HUM)
- Interdisciplinary Language-Literature (LLI)
- Linguistics (LIN)
- Management (MAN)
- Marine Science (OGY)

Marketing (MKT)
- Mass Communications (COM)
- Mathematics (MTH)
- Medicine (MED)

Modern Languages:
- General Modern Language (LAN)
- French (FRE)
- German (GER)
- Italian (ITA)
- Portuguese (POR)
- Romance (ROM)
- Russian (RUS)
- Spanish (SPA)
- Music Arts (MUS)
- Off-Campus Term (OCT)
- Philosophy (PHI)
- Physical Education, Elective (PEB)
- Physics (PHY)
- Political Science (POL)
- Psychology (PSY)
- Rehabilitation (REH)
- Religious Studies (REL)
- Social Sciences, Interdisciplinary (SSI)
- Sociology (SOC)
- Speech (SPE)
- Speech Pathology & Audiology (SAI)
- Theatre Arts (TÀR)
- Zoology (ZOO)

Note: Courses numbering 500 through 599 are open only to upper division and graduate students. Courses numbering 600 and above are open to graduate students only.

Some courses are graded on an "S-U" (pass-fail) basis, and are so identified in the quarterly course schedules.

GENERAL EDUCATION COURSES
(Also listed under appropriate departments)

CBS 100. ENGLISH AS A SECOND LANGUAGE—COMPOSITION (3)
Practice and drill in basic English sentence patterns; emphasis is on writing, punctuation, vocabulary, and idiom.

CBS 101, 102. FRESHMAN ENGLISH (4, 4)
Instruction and practice in the skills of writing and reading. CBS 101 is prerequisite to CBS 102.

CBS 109, 110. FUNCTIONAL MATHEMATICS (5,5)
Designed as a terminal course for general cultural purposes, as a foundation for further study of mathematics and science, and as a preparatory course for prospective elementary school teachers.

CBS 111-124 (5, 5), CBS 211-224 (4, 4) BEGINNING AND INTERMEDIATE MODERN LANGUAGES

**FIRST YEAR**  
CBS 111-112 FRENCH

**SECOND YEAR**  
CBS 211-212
### GENERAL EDUCATION COURSES

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Note: CLS 101-102-103 (Elementary Latin) may be substituted for first-year Beginning Modern Language; CLS 201 plus two out of CLS 202, 203, 301, 302, 303, for second-year Intermediate Modern Language.

Portuguese 326-327 or Language 383-483 may be substituted for second-year Intermediate Modern Language.

**CBS 111 to 124. BEGINNING MODERN LANGUAGES I & II (5,5)**
Initiate development of speaking, understanding, reading, and writing of the modern foreign language at the elementary level.

**CBS 211 to 224. INTERMEDIATE MODERN LANGUAGES I & II (4, 4)**
Continue development of skills at the intermediate level, including the grammatical framework of the language.

**CBS 201, 202, 203. BEHAVIORAL SCIENCE (3, 3, 3)**
Draws on information from behavioral sciences (human biology, psychology, anthropology, sociology, and philosophy) to demonstrate how human behavior develops and means by which personal, social, and ethical problems are dealt with. The third quarter will deal with special topics selected for study in depth by the student.

**CBS 205, 255, 206, 256, 207, 257. PROBLEMS IN BIOLOGICAL SCIENCE (3,3,3)**
The application of basic biological principles to relevant problems and topics such as: 205-Foods, drugs and medicine, 255-Sex, reproduction and population, 206-Genes and people, 256-Evolution, 207-Environment, 257-Contemporary books. Elect any three of the 3-credit hour options.

**CBS 208-209-210. EXPLORATIONS IN PHYSICAL SCIENCE (3, 3,3)**
The development of great scientific ideas, their historical and contemporary significance. Selected topics of astronomy, chemistry, earth science, physics, and philosophy of science—approached via textbook and popular readings, lect.-lab-disc.

**CBS 301-302. THE AMERICAN IDEA (5,4)**
Uses history, political science, sociology and economics to focus on major ideas characterizing American society, on our relations with other nations, and on contemporary, domestic and international problems.

**CBS 315-316-317-308. THE HUMANITIES (5, 5, 5, 4)**
PR: CBS 101-102 and sophomore standing. Analysis of works in the visual arts, music, theatre, film, literature, and philosophy. Workshops for creative experience.

**CBS 311-312-313. HUMANITIES AND HUMANE VALUES (5,5,5)**
PR: CBS requirement in humanities or CI. Masterpieces of music, visual arts, theatre, literature, and philosophy in varying cultural and historical situations.

**CBS 395. OVERSEAS STUDY (1-9)**
A program of individual or group research in a foreign country. Selection of the student, his preparation for the study, and subsequent evaluation to be supervised by a faculty committee.

**CBS 401. SENIOR SEMINAR: FREEDOM AND RESPONSIBILITY (3)**
Required of all seniors. Contemporary issues affecting social and personal values. Visiting lecturers, readings and discussions interrelating the behavioral natural and social sciences and the humanities. Designed to focus the university education upon contemporary problems.

**CBS 403-404. THE UNIVERSE OF MAN (3,3)**
A search for the universals of human life today; the nature of man, the world community, human needs and values, available instruments of science and technology, and the limiting facts and forces.

**CBS 405-406-407. BEHAVIORAL SCIENCE (3,3,3)**
A comprehensive analysis and evaluation of man's behavior. Emphasis on un-
understanding of mechanisms involved in individual and social behavior, along with consideration of social and ethical problems related to means for controlling behavior. Laboratory experience will be provided on special research topics.

**CBS 409-410. SCIENCE AND HUMAN LIFE (5,5)**
The role of science in society, the manner in which science is organized, how it operates, and its harmonious and conflicting relationships with other fields of knowledge.

**ACCOUNTING**

*Faculty: Jurgensen, chairman; Antonio, Deyo, Harris, Hubbard, Keith, Lasseter, McClung, Merriam, Moon, Roberson, Rouadi, J.L. Smith, Stephens, West.*

**ACC 201. ELEMENTARY ACCOUNTING (3)**
Study of basic accounting principles including the recording and reporting of financial activity. The preparation and interpretation of financial statements.

**ACC 202. ELEMENTARY ACCOUNTING (3)**
PR: ACC 201. Accounting theory and practices for various equity structures.

**ACC 301. INTERMEDIATE ACCOUNTING (5)**
PR: ACC 305 or Concurrent Registration in ACC 305. Measurement theory and methodology underlying income measurement and reporting of financial position. The study of working capital including cash, receivables, inventories and current liabilities.

**ACC 302. INTERMEDIATE ACCOUNTING (5)**
PR: ACC 301. Continuation of theory and principles underlying financial statements, time value analysis, long-term liabilities, plant and equipment, investments, intangibles, owner's equity, tax allocation, and funds flow analysis.

**ACC 305. ACCOUNTING FOR MANAGEMENT CONTROL (3)**
PR: ACC 202. Study of accounting from user's point of view. Includes measurement theory, use of financial statements, and accounting measurement in planning and control.

**ACC 401. ADVANCED ACCOUNTING (3)**
PR: ACC 302; MTH 211, 212. Quantitative application in accounting, partnerships, governmental accounting and price level changes.

**ACC 402. CONSOLIDATED FINANCIAL STATEMENTS (3)**
PR: ACC 302. Accounting for home office and branch operations and business combinations.

**ACC 405. ACCOUNTING INFORMATION SYSTEMS (3)**
PR: ACC 302. General systems theory, total systems concept, internal control problems, and computer based accounting systems.

**ACC 411. FEDERAL TAXES (3)**
PR: ACC 202. An introduction to the federal income tax structure. Use of tax services and the concept of taxable income as applies to corporations.

**ACC 412. FEDERAL TAXES (3)**
PR: ACC 411. Continued study of the federal income tax structure. Special topics and the concept of taxable income as applied to corporations.

**ACC 413. FEDERAL TAXES (3)**
PR: ACC 411. The concept of taxable income as applied to partnerships and fiduciaries. Introduction to estate, gift and social security taxes.

**ACC 421. COST ACCOUNTING AND CONTROL (5)**
PR: FIN 401; ECN 331; MTH 211, 212. Deals with relevant cost for decision making; capital budgeting; inventory planning and control; standard, job order, and process costing.

**ACC 423. AUDITING (3)**
PR: ACC 302 and ECN 331. Principles and procedures of internal and public auditing. The ethics, responsibilities, standards, and reports of professional auditing.
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ACC 424. ADVANCED AUDITING (3)
PR: ACC 423. Continuation of ACC 423. Emphasis directed towards the application of auditing standards and techniques in achieving audit objectives. Relationship of professional auditing to regulatory authorities.

ACC 425. BUDGETING (3)
PR: ACC 421. The development of budgets and their relation to expense and cost control, including the use of standard cost as a budgetary tool.

ACC 483. SELECTED TOPICS IN ACCOUNTING (1-5)
PR: CI. The course content will depend on student demand and instructor's interest.

FOR SENIOR LEVEL AND GRADUATE STUDENTS

ACC 501. ACCOUNTING CONCEPTS AND METHODOLOGY (3)
A study of basic accounting principles including the recording of transactions and the preparation and interpretation of financial statements.

ACC 502. ACCOUNTING CONCEPTS AND METHODOLOGY (3)
PR: ACC 501. A continuation of ACC 501. Consideration is given to budgeting and cost accounting. Emphasis is placed upon the analysis of financial condition and business operations through an understanding of accounting statements and reports.

FOR GRADUATE STUDENTS ONLY

ACC 601. MANAGERIAL ACCOUNTING AND CONTROL. (3)
PR: Business Core or equivalent. A study of the relevancy and limitations of accounting measurement as a basis for business decision-making. Includes a review of fundamental accounting measurement theory and related tax implications.

ACC 602. MANAGERIAL ACCOUNTING AND CONTROL (3)
PR: ACC 601. The relevancy and limitation of cost information in business decision-making. Emphasis is oriented towards the role of cost accounting measurements in: (1) planning and controlling current operations; (2) special decisions and long-range planning; and (3) inventory valuation and income determination.

ACC 605. DEVELOPMENT OF ACCOUNTING THOUGHT (3)
PR: 24 quarter hours in 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 606. CONTEMPORARY ACCOUNTING THOUGHT (3)
PR: ACC 605 or CI. Concentrated study of current problems areas in the field of accountancy.

ACC 607. SYSTEMS THEORY AND QUANTITATIVE APPLICATIONS (3)
PR: ACC 602 or equivalent, GBA 333 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 611. FEDERAL TAX RESEARCH AND PLANNING (3)
PR: ACC 411 or CI. A study of the development of tax law and its implication in business decisions. Tax planning and tax research are emphasized.

ACC 621. MANAGEMENT COST ANALYSIS AND CONTROL (3)
PR: 24 quarter hours in accounting or CI. Measurement, interpretation, planning, and control of costs by means of predetermined standards and variance analysis. Use of accounting and statistical information in preparing budgets and controlling operations.

ACC 623. ETHICS AND RESPONSIBILITIES IN PROFESSIONAL ACCOUNTANCY (3)
PR: ACC 423 or equivalent. The study of elements of public accounting practice, professional conduct, auditing principles and reporting standards. The relationship of the field of public accounting to federal and state agencies.
AFRO-AMERICAN STUDIES

Faculty: J. Dudley, director; McDonald, Scott, Somers.

AFA 130. INTRODUCTION TO AFRO-AMERICAN STUDIES (4)

AFA 261-262. AFRO-AMERICAN HISTORY (4, 4)

AFA 302. SOCIAL INSTITUTIONS AND THE GHETTO (4)
PR: AFA 130 or CC. 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 310. BLACK AMERICANS IN THE ECONOMIC PROCESS (4)
PR: AFA 130 or CC. Brief economic history of Black America emphasizing the impact of racial discrimination and evaluating proposals for improvement as they apply to Black Americans and other minority groups.

AFA 410. CONTEMPORARY BLACK PHILOSOPHY (4)
PR: AFA 13 or CC. Major themes and participants in the Black liberation movement since 1950.

AFA 481. RESEARCH AND FIELD STUDIES (1-4)
PR: AFA 130 or CC. Required of all senior majors. A course linking the study pursued by the student with research and work projects in the Tampa Black community.

AFA 483. DIRECTED READINGS (1-4)
PR: AFA 130 or CC. Independent readings in a particular area of Afro-American Studies, selected by student and instructor.

AFA 491. SENIOR SEMINAR (4)
PR: AFA 130 or CC. In-depth study of a particular topic in the area of Afro-American Studies. Individual research by students required.

AMERICAN STUDIES

Faculty: H.M. Robertson, chairman; Conway, D. Harkness, Kashdin, Moore, W. Morgan, O'Hara, E. Stanton, Warner.

AMS 301. INTRODUCTION TO AMERICAN CIVILIZATION (5)
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 311. THE COLONIAL PERIOD (5)
Puritan heritage: 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 period. Elective for non-majors.

AMS 312. THE AGRARIAN MYTH (5)
Frontier heritage: The pattern of American culture as revealed through an examination of selected writings and other pertinent materials dealing with American faith and the American frontier environment (the land, city, machine). Elective for non-majors.