ACCENT ON LEARNING

GENERAL CATALOG
OF THE
UNIVERSITY OF SOUTH FLORIDA
1974-75

Programs, activities, and facilities of the University of South Florida are available to all on a non-discriminatory basis, without regard to race, color, creed, religion, sex, age, or national origin. The University is an affirmative action Equal Opportunity Employer.

NOTE CORRECTION RE: PAGE 17

REVISED FEES FOR 1974 - 75

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<td>$13.00 per credit hr.</td>
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The announcements, information, policies, rules, regulations, and procedures set forth in this Bulletin are for information only and are subject to continual review and change without notice.
Visiting the University

Prospective students and other interested persons are invited to visit the University whenever possible. University offices receive visitors from 8:00 a.m. to 5:00 p.m. Monday through Friday. With advance notice, tour guides for visiting groups may be arranged.

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.

Communicating with the University

Communications regarding the programs listed below should be directed by letter or by phone to the appropriate office on the Tampa or St. Petersburg campus. Mailing addresses for the campuses are given at the bottom of the page. St. Petersburg offices may be reached by dialing 813: 898-7411 and asking for the desired office; Tampa campus offices may be reached by dialing 813: 974- and the extension included below.

Academic Advising (for freshmen)
Division of University Studies
FAQ 126
2645

Academic Advising (for upperclassmen and graduate students)
Office of the Dean of the appropriate college

Admissions (and applications)
Office of Admissions
ADM 180
2987

(Academic Advising (for freshmen)
Division of University Studies
FAQ 126
2645

Academic Advising (for upperclassmen and graduate students)
Office of the Dean of the appropriate college

Admissions (and applications)
Office of Admissions
ADM 180
2987

(Medical students should contact the Dean of the College of Medicine)

Athletics (Intercollegiate)
Athletic Director
PED 214
2125

Bachelor of Independent Studies Program
Adult Degree Program
FAQ 105
2403

Career Planning and Placement
Division of Cooperative Education & Placement
AOC 105
2171

College Level Examination Program (CLEP tests)
Office of Testing and Advanced Placement
FAQ 201
2741

Community College Relations (for transfer students)
Office of Community College Relations
FAQ 148
2506

Continuing Education Courses and Conferences
Center for Continuing Education
FAQ 101
2403

Cooperative Education Program
Division of Cooperative Education & Placement
AOC 105
2171

Equal Opportunity Program
Office of the Equal Opportunity Coordinator
ADM 253
2607

Financial Assistance (scholarships, loans, and student employment)
Office of Financial Aids
ADM 172
2621

Food Services
Office of Housing and Food Services
RAR 229
2761

Graduate Studies
Division of Graduate Studies
ADM 229
2846

Handicapped Student Program and Facilities
Office of Student Affairs
ADM 153
2151

Health Services (Student)
Health Center
CTR 411
2331

High School Relations
Office of High School Relations
FAQ 126
2076

Housing (on campus)
Office of Housing and Food Service
RAR 229
2761

Housing (off-campus)
Student Government Office
CTR 156A
2401

Information Services
Office of Information Services
ADM 190
2181

Library Resources
Office of the Director of Libraries
ULI 224
2721

Orientation (“Focus”)
Division of University Studies
FAQ 126
2076

Parking and Traffic Services
University Police Department
UPB
2628

Records, Registration, Transcripts
Office of Records & Registration
ADM 264
2987

Student Affairs
Office of Student Affairs
ADM 153
2151

Textbook Facilities
Textbook Center
CTR 102
2545

Upward Bound
Project Upward Bound
APT 16
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ACADEMIC CALENDAR

Summer Quarter (IV), 1974

NOTE: Dates apply to regular term. See quarterly Schedule of Classes for appropriate sessions.

*May 15, Wednesday
Last day to apply for admission.

June 13, 14, Thursday, Friday
Registration by appointment (tentative).

June 17, Monday
Classes begin.

June 21, Friday
Last day to withdraw and/or drop and receive full refund of registration fees.

June 21, Friday
Last day to add courses.

June 28, Friday
Last day for late registration (see late registration fee).

June 28, Friday
Last day to register for Continuing Education courses.

July 4, Thursday
Last day to register for Continuing Education course refund.

July 5, Friday
Independence Day Holiday.

July 26, Friday
Last day to apply for degree to be earned at the end of Summer Quarter (IV), 1973-74.

July 26, Friday
Last day to drop courses without penalty.

August 23, Friday
Last day to withdraw without penalty.

End of Summer Quarter (IV).

Fall Quarter (I), 1974-75

*August 28, Wednesday
Last day to apply for admission.

September 18, 19, 20 Wed., Thurs., Fri.
Registration by appointment (tentative).

September 23, Monday
Classes begin.

September 27, Friday
Last day to withdraw and/or drop and receive full refund of registration fees.

September 27, Friday
Last day to add courses.

September 27, Friday
Last day for late registration (see late registration fee).

October 4, Friday
Last day to register for Continuing Education courses or to register as a Special Student.

October 4, Friday
Last day for Continuing Education course refund or refund for a Special Student.

October 11, Friday
Last day to apply for degree to be earned at the end of Quarter I, 1974-75.

November 1, Monday
Veterans Day Holiday.

November 1, Friday
Last day to drop courses without penalty.

November 1, Friday
Last day to withdraw without penalty.

November 28, 29, Thurs., Fri.
Thanksgiving Holiday.

December 12, Thursday
End of Fall Quarter (I).

Winter Quarter (II), 1974-75

*December 12, Thursday
Last day to apply for admission.

January 2, 3, Thurs., Fri.
Registration by appointment (tentative).

January 6, Monday
Classes Begin.

January 10, Friday
Last day to withdraw and/or drop and receive full refund of registration fees.

January 10, Friday
Last day to add courses.

January 10, Friday
Last day for late registration (see late registration fee).

January 17, Friday
Last day to register for Continuing Education courses or to register as a Special Student.

January 17, Friday
Last day for Continuing Education course refund or refund for a Special Student.

January 24, Friday
Last day to apply for degree to be earned at the end of Quarter II, 1974-75.

February 14, Friday
Last day to drop courses without penalty.

February 14, Friday
Last day to withdraw without penalty.

March 21, Friday
End of Winter Quarter (II).

*Earlier dates may be required by the graduate programs.
**Spring Quarter (III), 1974-75**

*March 6, Thursday*  
Registration by appointment (tentative)

March 27, 28, Thurs., Fri.  
Classes begin

March 31, Monday  
Last day to withdraw and/or drop and receive full refund of registration fees

April 4, Friday  
Last day to add courses

April 4, Friday  
Last day for late registration (see late registration fee)

April 11, Friday  
Last day to register for Continuing Education courses or to register as a Special Student

April 11, Friday  
Last day for Continuing Education course refund or refund for a Special Student

April 18, Friday  
Last day to apply for degree to be earned at the end of Quarter III, 1974-75

May 9, Friday  
Last day to drop courses without penalty

May 9, Friday  
Last day to withdraw without penalty

May 26, Monday  
Memorial Day Holiday

June 13, Friday  
End of Spring Quarter (III)

June 15, Sunday  
Commencement Convocation

**Summer Quarter (IV), 1974-75**

NOTE: Dates apply to regular term. See quarterly Schedule of Classes for appropriate sessions.

*May 29, Thursday*  
Last day to apply for admission

June 19, 20, Thurs., Fri.  
Registration by appointment (tentative)

June 23, Monday  
Classes begin

June 27, Friday  
Last day to withdraw and/or drop and receive full refund of registration fees

June 27, Friday  
Last day to add courses

June 27, Friday  
Last day for late registration (see late registration fee)

July 4, Friday  
Independence Day Holiday

July 7, Monday  
Last day to register for Continuing Education courses or to register as a Special Student

July 7, Monday  
Last day for Continuing Education course refund or refund for a Special Student

July 11, Friday  
Last day to apply for degree to be earned at the end of Quarter IV, 1974-75

August 1, Friday  
Last day to drop courses without penalty

August 1, Friday  
Last day to withdraw without penalty

August 29, Friday  
End of Summer Quarter (IV)

*Earlier dates may be required by the graduate programs.*

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**College of Medicine**  
**Academic Calendar, 1974-75**

**First Period, 1974**

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<td>September 2, Monday</td>
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<td>November 1, Friday</td>
<td>End of First Period</td>
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**Second Period, 1974**

| November 4, Monday | Classes Begin |
| November 11, Monday | Veterans Day Holiday |
| November 28, Thursday | Thanksgiving Holiday |
| November 29, Friday | Thanksgiving Holiday |
| December 2, Monday | Classes Resume |
| December 20, Friday | Christmas Vacation |
| January 6, 1975 Monday | Classes Resume |
| February 28, Friday | End of Second Period |

**Third Period, 1975**

| March 3, Monday | Classes Resume |
| May 26, Monday | Memorial Day Holiday |
| June 20, Friday | End of Third Period |
The University of South Florida is many things — more than 20,000 students, faculty and staff members, over 100 instructional, research and service programs and a 65 million dollar physical plant of 40 major buildings. It is these things — and more. USF is also an idea — an idea whose time has come: the metropolitan university. On the following pages are cataloged information about this idea and the people, programs and facilities comprising it. We hope that you find here the answers to your questions about these and other aspects of the University of special interest to you. If you do not, you should feel free to contact the appropriate USF office(s) (see page 2) by mail or in person for the information you need.

Background and 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, and administered by the Chancellor and a staff of 100 in Tallahassee, today consists of nine public universities. Included are Florida A&M University (Tallahassee), Florida Atlantic University (Boca Raton), Florida International University (Miami), The Florida State University (Tallahassee), Florida Technological University (Orlando), University of Florida (Gainesville), University of North Florida (Jacksonville), University of South Florida (Tampa), and The University of West Florida (Pensacola). Together with some 28 public junior and community colleges and a number of vocational-technical centers located throughout the State, these universities comprise the public institutions of higher education 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, was recently completed and provides a firm foundation for the future growth of the University. Accreditation was reaffirmed in December, 1973.

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. Harris W. Dean, professional educator, served as Acting President from July 1970 to February 1971. 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 seventeenth year of existence, the University has graduated more than 25,000 students — eighty percent of whom reside in Florida — and served almost 200,000 persons in credit and non-credit courses. Total enrollment in the fall of 1973 reached almost 20,000 and projections indicate that USF will serve more than 25,000 students on several campuses by the end of this decade. The University’s economic impact on the area is equally significant: now approaching $100 million annually.

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 1694-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, the only branch campus in the State University System, is located on a 13-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 a metropolitan area 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. Plans are under study to establish an additional campus in the Sarasota-Bradenton area.

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 and potentialities inherent in modern urban development.

In a real sense, such a metropolitan area is a laboratory — a laboratory in which are studied first-hand many of the problems increasingly a part of twentieth-century life. Air and water pollution, traffic snarls, crime in the streets and sub-standard housing are merely visible symptoms of some of the complex ills affecting our increasingly 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 metropolitan university, a prototype of the university of the future, the University of South Florida from its beginning has sought to apply the talents of its scholars and students to the peculiar ills besetting modern man. In this way, USF has sought to accomplish the special mission in the State University System set out for it 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 University’s 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 modern metropolitan 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 throughout the Tampa Bay area.
- Over one-third of our student body are part-time students, and 40 percent are employed from one to 40 hours per week.
- More than two-thirds of all USF students are 21 or older and almost one-third of our students are married.
- Almost 60 percent of USF’s 25,000 graduates reside in the Greater Tampa Bay Area.

Programs Offered
A measure of success in accomplishing the University’s mission — and one more significant than mere statistics — is the nature of our academic programs. Through them we have sought to serve an increasingly urban State and nation. These programs are in the Academic Affairs division of the University and, for the most part, are administered in one of our nine colleges: Business Administration, Education, Engineering, Fine Arts, Language & Literature, Medicine, Natural Sciences, Nursing, and Social & Behavioral Sciences.

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

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

The University’s first Ph.D. program, in Biology with emphasis on Marine Biology, was established in 1968. 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 1,000, represents all major areas of higher learning, and nearly 60 percent hold doctoral degrees.

Academic Programs on the St. Petersburg Campus
The University of South Florida at St. Petersburg opened in September, 1965, and provides an opportunity for USF students who are residents of Pinellas County to complete all or a portion of their course work in selected areas without leaving the county. However, enrollment at the St. Petersburg campus is not restricted to Pinellas County residents.

Located on Bayboro Harbor adjacent to downtown St. Petersburg, the campus is within easy walking distance of many of the cultural and recreational facilities of Florida’s “Sunshine City.”

Resident faculty members and Student Affairs staff provide personal, social, vocational and academic counseling. The core of resident faculty is supplemented by professors commuting from the Tampa campus to provide additional scope to the academic program.

The academic programs at the St. Petersburg campus are restricted to courses designed to serve students of junior, senior and graduate standing and are offered at times chosen to meet the special needs of these students, including evenings (when 40% of the students attend) and Saturday. Selected courses and programs are offered by the Colleges of Education, Engineering, Natural Sciences, Social & Behavioral Sciences, Language & Literature, and Business Administration. 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 campus simultaneously. Dual enrollments on both campuses may provide students with a class schedule which is both academically flexible and convenient.

In addition to providing academic programs from six of the University’s colleges, the St. Petersburg campus houses a marine science research and training center. The USF Marine
Science Department, with headquarters at the St. Petersburg campus, is an interdisciplinary venture involving faculty members from several departments in addition to nine full-time faculty members at the St. Petersburg campus who are concerned with planning, administration, research and teaching.

Probably no other marine science program 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 campus 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.

While offering many of the characteristics of a small college, the University of South Florida at St. Petersburg has access to the resources of a major university. Its development is expected to keep pace with the continuing expansion of the Tampa Bay Area. Presently, an expansion of the St. Petersburg campus is under study to meet the higher educational needs of the area.

Students interested in attending the St. Petersburg campus are invited to visit the campus facilities and discuss their interests with the faculty and staff. They may contact the Admissions office by calling 813: 898-7411.

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 2085 Bahia Vista 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 by calling 813: 974-2403.

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. In addition, freshmen students may earn up to one full year of academic credit (45 hours) through the College Level Examination Program tests, high school students may apply for ”early admission” or take college courses while still in high school, and any interested person may earn college credit via radio and WUSF-TV’s televised course sequence — “Your Open University” (YOU) and local newspapers. Each of these programs is described elsewhere in the Bulletin.
Organization

For administrative purposes, the University is organized into the four broad areas of academic affairs, student affairs, administrative affairs and finance & planning. The vice presidents who head these four units serve with the President as the principal policymaking officials of the University. In addition to the vice presidents, advice and assistance to the President in the determination of policy is given by a number of advisory bodies, including University committees and organizations representing the faculty, staff and student segments of the University community. The President is responsible through the Chancellor to the Florida Board of Regents for internal policy and the procedures of the University. More detailed information on these matters is available in the Special Collections Room, USF Library.

Physical Plant

The physical plant of the University, now including more than 40 major buildings, is currently valued at more than $65 million. (See map inside cover.) The buildings are of similar modern architectural design and all are completely air conditioned. Construction has begun on Phase II of the new USF Medical Center and other needed facilities which, together with the new library complex soon to be completed, will increase the value of the University's physical plant by two-thirds in the next few years.

Historic Goals of the University

As a university, USF is an institution of higher learning consisting of 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.

As such, the university should not be confused with a technical or vocational school where the detailed techniques of a trade can be learned by practice. The university — even the modern urban university — deals with professional areas more in theory than in practice, providing the broad background and understanding necessary to the development and refinement 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, is not simply 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. Hence, a university has an important obligation in its educational program to provide 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 wisdom of the past and the living spirit of the present are passed on to new generations of people to be used by them in the further advances of society toward goals of more enriching and fulfilling living.

The University of South Florida has historically been committed to the goal of placing "Accent on Learning" which is considered 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.
- To provide opportunity for the development and training of the mind which promotes maturity, objectivity and creativity.
- 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.

Degree programs of the University are designed to promote the following general aims for all students: (1) appropriate skills in speaking, writing, reading and listening; (2) self-reliance through the ability to think clearly; (3) understanding 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) an 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.

A Look at the Future

The University of South Florida’s location in the dynamic 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. To date, almost 200,000 people have taken courses at USF and many others have taken advantage of the University’s cultural, athletic, and service programs. 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, dedicated to serving the people of Florida by providing all USF students enriching educational experiences.

Equal Educational Opportunities at USF

USF programs, facilities, services, and activities are provided to all without regard to race, color, creed, religion, age, sex, or national origin.

Students are admitted to the University on the basis of those non-discriminatory factors noted in the section of the Bulletin on Admissions. The recruitment of students is done in a way that not only does not exclude any segment of the population but also encourages persons from minority groups to enroll at USF.

University services, advising, counseling, and financial assistance are available to all students on a non-discriminatory basis. Moreover, affirmative efforts are made to provide special assistance to identifiable groups with special needs (i.e. minority students, the handicapped, etc.).

A wide variety of student organizations and activities are available to students, designed to affirm their individual identities and to discourage discriminatory treatment.

The University has a revised and widely distributed Equal Opportunity Program (available for review in the Student Affairs Office), which includes special procedures to deal with the equal opportunity problems of USF students. Any student believing that University policy or the practices of any employee are unlawfully discriminatory may file a complaint in writing with the Special Assistant for Equal Opportunity in the Office of Student Affairs and expect a prompt and fair handling of the matter.
Early 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.

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

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

The Office of Admissions is a part of the Division of University Studies.

How to Apply for Admission

The State University System of Florida is now utilizing a common application for admission to any one of the nine senior state universities. Students attending Florida State high schools or junior/community colleges should be able to obtain the necessary application at their school guidance office. Otherwise, please write to the Office of Admissions, University of South Florida, Tampa, Florida 33620 and indicate whether you will be entering as a first time in college freshman, a transfer student (previous college work), or a graduate student. Application for admission to the College of Medicine should be obtained directly from the Office of Student Affairs, College of Medicine, University of South Florida, Tampa, Florida 33620.

Applications are accepted as early as 12 months prior to anticipated enrollment and should be submitted by the deadline stated in the catalog. Applicants are encouraged to apply early. Each applicant is responsible for requesting necessary credentials to be sent to this University. All academic records must be mailed to the Office of Admissions, University of South Florida directly from the appropriate institution or agency. (i.e., high school guidance counselor or principal. (An applicant should secure a copy of the Early Admission Recommendation form for his high school from the Office of New Student Relations.) The applicant’s cumulative grade point average in academic subjects, recommendations, Florida Twelfth Grade Test (administered at USF) or SAT scores and personal letters are considered in early admission decisions.

Early admission is administered by the Office of New Student Relations, Division of University Studies, in conjunction with the Admissions Office and a number of other University units.

Admission Requirements

Freshman-Graduate of Florida Secondary School

1. Overall "C" average in high school work.
2. Minimum score of 300 on the Florida Twelfth Grade Test.
3. Appropriate recommendation from the secondary school.

Freshman-Graduate of Out-of-State Secondary School

1. Overall "C" average in high school work with class ranking in the upper 40 percent of the class.
2. Minimum total score of 900 on the Scholastic Aptitude Test (SAT) with at least 450 on the verbal portion or minimum composite score of 21 on the American College Test (ACT).

Freshman — Early Admission

Early admission is open to qualified high school students who wish to enter the University of South Florida as regularly enrolled students prior to high school graduation. Along with the regular application form and $15.00 non-refundable application fee, such students must submit a letter outlining reasons for seeking early admission to USF and future academic plans. Also required is a recommendation for early admission from the applicant’s high school guidance counselor or principal.

Undergraduate Transfer

1. Overall average of 'C' on all college level work attempted.
2. Eligible to re-enter institution last attended.
3. A student who has attempted less than 45 quarter or 30 semester hours of work must also submit a satisfactory secondary school record and admission test scores.
4. If a student has attempted more than 45 quarter or 30 semester hours of college work, the University requires only official transcripts of the student’s prior college work; evaluation and decision will be made on the basis of the student’s performance at the college level. Transfer students should also refer to the section on community college relations, page 13.
Evaluation of Transferred Credits

1. The Admissions Office determines the total number of credits that may be transferred into USF and specific course evaluations are prepared by the college of the student's major after the student's first enrollment; therefore, one should be prepared with a personal unofficial copy of his/her transcript of all past course work to discuss advisement and placement with the appropriate academic adviser.

2. A transfer student from an accredited junior/community college may satisfy the General Distribution Requirements of the University of South Florida by completing (before transfer) the general education program prescribed by that institution. Transcripts must certify that the general education requirements have been completed and if appropriate, graduation data.

3. A maximum of 90 hours of junior college work will transfer unless a student has completed more than 90 transferable quarter hours at a four-year institution prior to enrolling at a junior college. In this case, the number of quarter hours earned at the senior institution is the maximum which may be granted at USF.

4. Credit will not be awarded for G.E.D. tests, for R.O.T.C., or military science.

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

6. A maximum of 45 quarter hours of extension, correspondence, military service education and College Level Examination Program (general examinations) credits can be applied toward a degree.

Transient

A transient student is one who is permitted to enroll at the University of South Florida for one quarter only before returning to his/her parent institution. The University requires a completed application, the $15.00 nonrefundable application fee and a statement from the parent institution, indicating that applicant is in good standing.

Foreign Students

1. For all foreign students, undergraduate and graduate, the following items are required:
   a. Completed application.
   b. A $15.00 nonrefundable fee must be included with the application.
   c. A certificate of financial ability.
   d. Two personal letters of recommendation.
   e. Satisfactory scores on the Test of English as a Foreign Language. The student should request that Educational Testing Service send his/her scores to the University.

Foreign applicants must request all schools attended to submit directly to the Office of Admissions, 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 of the catalog.

2. All foreign applicants must furnish proof that a minimum of $3270.00 in U.S. currency is available for three quarters of study, plus living and/or study expenses for the fourth quarter. This estimate includes tuition, fees, books, room and board, and other expenses.

3. All foreign applicants should make application well in advance of the desired entering date. Applicants from a country other than the United States will find at least six months may be necessary to meet the deadline. The application must be complete and all required materials received in the Admissions Office six weeks prior to registration.

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 eligible 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. Enrollment is by means of a Special Student Registration Form available in the Office of Records and Registration. Special Students may only enroll on or after the first class meeting each quarter (see Academic Calendar for dates). Course prerequisites must be met and enrollment is on a space available basis. No more than 12 hours of credit earned in this status may be applied toward a graduate degree and no more than 20 hours of credit may be applied toward an undergraduate 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.

Special Student — Dual Enrollment

Dual enrollment in USF classes is open to academically qualified students currently enrolled in high school who are recommended by their guidance counselor or principal. (An applicant should secure the Dual Enrollment Recommendation form for his high school from the Office of New Student Relations.) High school students seeking special student status are advised by and obtain the Special Student Registration form from the Office of Advising, Division of University Studies. Dual enrollees register as special students and are admitted to USF classes on a space available basis during the first week of every quarter. College credits earned through dual enrollment will be applied toward the student's degree when he is regularly enrolled after high school graduation.

Graduate Students

Graduate Students should refer to the section on "Division of Graduate Studies," page 39.

Readmission (Former Students Returning)

Any student who has not been in attendance at the University of South Florida during either of the two quarters immediately preceding the quarter that enrollment is desired is classified as a Former Student Returning. Such students should secure a "Former Student Returning Application" from the Office of Records and Registration. Early submission of the application is requested.

1. Former undergraduate students who have completed their baccalaureate degree, Transient students, and Special students who wish to enter graduate study for the first time as degree seekers must file a "Graduate Application" prior to the deadline listed in this catalog.

2. An application fee is required for all students who have enrolled only for Continuing Education (off-campus) courses and for those who enrolled as Special students.

3. All former students of USF who have completed their baccalaureate degree and wish to return to the University to begin another undergraduate major must file an "Undergraduate Application" with the Office of Admissions; no fee is required.

Former Students Returning should consult the University Class Schedule which is printed each quarter for any deadline and procedure changes. To be eligible for readmission, the following requirements must be met:
1. Be in good standing and eligible to return to the University of South Florida.

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

3. Students who have attended another institution(s) in the interim should request that a copy of their final transcript(s) be sent to the Office of Records and Registration, attention: Evaluation Clerk.

### Evening Courses

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

### Undergraduate Student Advisement

Any student entering the University with fewer than 90 quarter hours is considered a student of the Division of University Studies for the first advising session. Upper level transfer students with less than 135 quarter hours who have not yet selected an academic major are also assigned to the Division. This unit is responsible for general academic advising and for helping the undeclared student move toward a decision about an academic major. New lower level students may declare a major and enter a college any time after their first academic advisement by picking up their advising file from an adviser in the Division of University Studies and taking it to the coordinator of advising in the appropriate college. Undeclared upper level students upon making a decision would follow the same procedure. The coordinator then assigns the student to a college or departmental adviser.

Students who transfer to the University with 90 quarter hours or more and who have decided upon a major enter a college directly by filing an application for admission to the college in the office of the appropriate coordinator of advising. In most cases this application is a routine information sheet which assists the college in collecting and maintaining the necessary records to assure the student’s proper progress toward his educational goals. An adviser assignment will be made upon completion of this application.

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

Even though some colleges may not require students to see an adviser, it is strongly recommended that all students establish an advising relationship with a college or the Division of University Studies and periodically visit their advisers to keep abreast of any policy, procedural, or curriculum changes which may affect them.

To assure quality academic advising throughout the University, a Council on Academic Advising has been established. The Council is made up of the Coordinator of Advising from each of the colleges, along with representatives from the Registrar’s Office and the Office of Community College Relations and is chaired by the Associate Director for Advising in the Division of University Studies. It is the responsibility of this Council to insure the availability of accurate information about the University to all prospective, new, and continuing students.

### Student Registration

**Registration** will be conducted in person by appointment during both the Early and Regular registration periods each quarter. Students are encouraged to register early to allow time for schedule adjustments to be made by the colleges.

**Changes** of class registration for students who register during Early Registration can be made during the Early Drop/Add period. Students registering during Regular Registration may make schedule adjustments during the Regular Drop/Add period. (Please refer to the University Class Schedule which is printed each quarter for any deadline changes.)

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 in person by the close of business on the last day of registration prior to the first day of class in any quarter, or if by mail, payments must be postmarked no later than midnight of that same day. 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 day in a quarter.

### Office of Community College Relations

Community College Relations works very closely with Florida Community/Junior College students and staff, as well as with many USF offices such as Admissions, Student Affairs, Records and Registration, and the various colleges and departments.

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 staff members of those colleges, in better understanding the University of South Florida, its philosophy, its programs, and its procedural operations. This office, conversely, has a responsibility for the interpretation of the community/junior colleges to the University. The ultimate goal of the Office of Community College Relations is to assure that the University does everything possible in assisting the transfer student to phase into the University “on par” with his counterpart who has been enrolled earlier at the University. One significant contribution toward this goal is the annual delivery of the up-dated Community College Counseling Manuals to every Florida community college.
The Office of Community College Relations serves a coordinating function within the University by working with all areas concerned in minimizing problems of transfer 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 — or, in certain prior-approved areas, the Associate in Science degree. Special details for students who do not plan to complete the associate degree requirements are available from the Office of Admissions.

Office of Testing and Advanced Placement

This office serves three principal functions which are described as follows:

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

2. Test Development and Scoring Services: Analysis and advisory services are provided to aid in construction and validation of tests used in classes and other tests.

3. Credit-by-Examination: The College-Level Examination Program (CLEP) is administered through this office as are other examination programs designed to provide alternative means for students to achieve credit.

The Committee on Testing and Advanced Placement recommends standards and procedures for conduct of the credit-by-examination program.

Continuing Education

The University of South Florida offers both credit and noncredit educational programs to serve the in-service and continuing education needs of a geographical area which encompasses Charlotte, DeSoto, Hardee, Hernando, Hillsborough, Lee, Manatee, Pasco, Pinellas, Polk, and Sarasota Counties.

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

To assure quality of instruction, 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 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 field of Education should be transmitted by individuals, groups, companies, agencies, etc., directly to the Center for Continuing Education, University of South Florida.

Enrollment in Continuing Education Courses

Enrollment in a Continuing Education off-campus credit course is accomplished by mail only. Enrollment forms may be obtained at a Continuing Education office, from the local County Extension Coordinator in county school board offices, or from the course instructor at the first class session.

1. The enrollment form and payment of fees must be postmarked no later than the deadline announced in the University Class Schedule.

2. On-campus students enrolling in a Continuing Education course must use the enrollment by mail procedure.

3. Fees for Continuing Education courses are assessed the same as fees for classified and unclassified students. Consult the Fees Section on page 17 for detailed information.

4. Enrollment forms for students whose fees are to be paid by school boards or state or federal grants must be forwarded in accordance with registration deadlines. Payment of fees or appropriate purchase orders must be enclosed with enrollment forms.

5. It is the responsibility of the individual student to ascertain that he has met the course prerequisites as published in this Bulletin (see appropriate academic regulations and Course Descriptions.)

Education for Adults

Recognizing that education is a life-long process relevant to the needs of above traditional college age students, the University of South Florida has developed degree programs and courses designed specifically for adults living in the surrounding metropolitan area. The University seeks to promote a better understanding of life in a changing world by means of instruction offered in a variety of ways — with and without academic credit. Programs are available for adults who wish to begin a college program, for those who are seeking to complete their interrupted college education, and for those who have...
earned a community college degree and now wish to earn the bachelor's degree. In addition, a wide variety of courses is offered in both the daytime and evening for those who wish to update a degree earned in the past or for those who are seeking to enrich their intellectual and cultural life. For those students who wish to advance their career, USF offers bachelor's degrees in 111 areas, master's degree programs in more than 60 areas of study, and six programs at the Ph.D. level. For further information on these regular courses of study, consult the appropriate college description and course offerings in the catalog.

It has been the experience of the University of South Florida that students who are above traditional college age often have unique educational considerations that require special services. One of the special services provided is academic advising by a specialist in the Division of University Studies, Office of Academic Advising. This service is made available to adult students already enrolled as well as those who wish to explore the opportunities for continuing education at USF. (See page 25.)

Financial aid is also available to adult students. Information on scholarship and aid funds may be obtained from the Office of Financial Aid as described on page 18.

For students who wish to improve their academic skills, a group of five developmental courses has been designed which is offered without academic credit. These courses are described on page 135.

The University recognizes the validity of prior learning experiences, particularly as they apply to adult students whose previous formal study, life and work experience, and leisure-time activities may well have already provided them with information and skills taught in University courses. The College Level Examination Program (CLEP) provides students with the opportunity to earn, without tuition payment, credit hours applicable toward a degree. Further information on this and other opportunities for credit by examination may be found on page 29.

For students who do not plan to work toward a degree, but rather wish to pursue further study without regard to a specific program, it is possible to enroll as a Special Student without making application to the University for formal admission. This opportunity is discussed further on page 12.

The Bachelor of Independent Studies (BIS) program was first offered in 1969. This rapidly growing program is of special interest to the above traditional college age student, and limited to those students who are unable to attend regular on-campus classes. Residence requirements are limited to a total of nine weeks for the entire program. Applicants for this program must be admissible to the University. The program is described in detail on page 34.

The Servicemen's Opportunity College (SOC) program at USF is offered to help meet the special academic needs of servicemen who seek to initiate or complete their college level work while on active duty. The University recognizes that Armed Forces personnel are often unable to fulfill traditional residency requirements. General University residency requirements necessitate the completion of 45 hours of the last 90 hours in on-campus courses. On an individual basis this requirement may be waived by the Academic Regulations Committee upon recommendation of the student's college. Under the SOC program, the University and the servicemen enter into a "contract for degree" which allows the student to obtain much of his or her required course work through credit by examination or at other educational institutions close to the individual's military base of assignment. Additional special provisions are made on an individual basis to assist SOC students in meeting USF's degree requirements. For further information please contact the Office of Admissions.

The Center for Continuing Education at USF provides both credit and non-credit courses for the nine-county area surrounding Tampa Bay. Through the Center, it is now possible to earn a Continuing Education Unit (CEU) in certain approved programs to meet the requirements of those organizations and professions which now require adults to continue their education. There is further information available on pages 14 and 35.

Y.O.U. (Your Open University) provides an opportunity for individuals to earn college credit, without regard to previous educational background. A variety of courses is offered over WUSF-TV (Channel 16), and WUSF-FM (89.7) in the late afternoons and evenings. Each lesson is broadcast twice so registrants may have maximum viewing flexibility. There is a more complete description of this program on page 35.

In addition to radio and television course offerings USF has recently offered an opportunity for students to earn university credit by successful completion of a course published in Bay Area newspapers. It is anticipated that USF will make this an on-going opportunity.

Students interested in auditing a course may do so with the written approval of the instructor on the audit form which may be obtained from the Office of Records and Registration. Fees are charged at the same rate as for credit courses. The auditing privilege is described in detail on page 27.

Certificates may be earned upon successful completion of the minimum requirements for the Associate of Arts degree (a two-year program). This may constitute a terminal degree or lead to eventual completion of the B.A. degree. Requirements are described on page 31.

Independent study is an opportunity available to all students with the permission of the course instructor who specifies the requirements for completion. Further information on independent study is available on page 30.

It is now possible to earn a Certificate of Concentration whether or not the student has had previous college experience. This program is also available to those students who have already earned a degree. Completion of a minimum of 25 hours in one academic area or a combination of areas with a minimum of 12 hours in one area, will meet the requirements for the Certificate of Concentration offered in the College of Language and Literature. Certificate programs within this college are offered in American Studies, Classics, English, History of Ideas, Humanities, Linguistics, Mass Communications, Philosophy, Religious Studies, Modern Languages (French, German, Russian, Spanish, Italian) and Speech Communication. Specific information is available from the College of Language and Literature (see page 82).

To assist students in evaluating and alleviating problems, the University provides the services of the Counseling Center for Human Development which is staffed by psychiatrists, clinical and counseling psychologists and social workers. Services available through this office include psychological and career testing, vocational guidance, tutoring, evaluation of speech and hearing problems, personal counseling and psychiatric consultation. For a more complete description of the services offered by the Counseling Center, consult page 21.
Resident Status—Florida and Non-Florida

Board of Regents regulation 7.6, Florida Student Definition, reads as follows:

For the purpose of assessing registration fees, students shall be classified as Florida or non-Florida. A Florida student is a person who shall have resided and had his domicile in the State of Florida for at least twelve (12) months immediately preceding the first day of classes of the current term.

In applying this policy, “student” shall mean a person admitted to the institution. If such person is a minor, it shall mean parents, parent, or legal guardian of his or her person.

The word “minor” shall mean a person who has not attained the age of 18 and whose disabilities of minority have not been removed by reason of marriage or by a court of competent jurisdiction.

The word “domicile” for fee-paying purposes shall denote a person’s true, fixed, and permanent home and place of habitation. It is the place where he intends to remain, and to which he expects to return when he leaves without intending to establish a new domicile elsewhere.

The word “parent” shall mean a minor's father; or mother; or if one parent has custody of his person, the parent having custody; or if there is a guardian or legal custodian of his person, then such guardian or legal custodian.

In all applications for admission by students as citizens of Florida, the applicant, or if a minor, his parents or legal guardian shall make and file with such application a written statement under oath that such applicant is a bonafide citizen, resident, and domiciliary of the State.

A non-Florida student is a person not meeting the requirements of Section A above. A non-Florida student (or if a minor, his parent or parents) after having been a resident and domiciliary of Florida for twelve (12) months may apply for and be granted reclassification prior to the first day of classes of any subsequent term; provided, however, that those students who are non-resident aliens or who are in the United States on a non-immigration visa will not be entitled to reclassification. However, for fee-paying purposes, Cuban nationals will be considered as resident aliens. Such application shall comply with the provisions above. In addition, the application for reclassification must be accompanied by a certified copy of a declaration of intention to establish domicile filed with the clerk of the Circuit Court as provided by Florida Statutes.

Unless the contrary appears to the satisfaction of the registering authority of the institution at which a student is registering, it shall be presumed that:

The spouse of any person who is classified as in-state student is likewise entitled to classification as an in-state student.

A minor whose parent is a member of the armed forces and stationed in this State pursuant to military orders is entitled to classification as an in-state student. The student, while in continuous attendance, shall not lose his residence when his parent is thereafter transferred on military orders. A member of the armed forces of the United States stationed in this State on military orders shall be entitled to classification as an in-state student while on active duty in this State pursuant to such orders.

No person over the age of 18 years shall be deemed to have gained residence while attending any educational institution in this State as a full-time student, as such status is defined by the Board of Regents, in the absence of a clear demonstration that he has established domicile in the State.

Any person who remains in this State when his parent, having theretofore been domiciled in this State, removes from this State, shall be entitled to classification as a Florida student, so long as his attendance at a school or schools in this State shall be deemed “continuous” if the person claiming continuous attendance has been enrolled at a school or schools in this State as a full-time student, as such term is defined by the Board of Regents, for a normal academic year in each calendar year, or the appropriate portion or portions of such years, thereof, since the beginning of the period for which continuous attendance is claimed. Such persons need not attend summer sessions or other such intersession beyond the normal academic year in order to render his attendance “continuous.”

Appeal from a determination denying Florida status to any student may be initiated by the filing of an action in court in the judicial district in which the institution is located.

Any student granted status as a Florida student which status is based on a sworn statement which is false shall, upon a determination of such falsity, be subject to such disciplinary sanctions as may be imposed by the president of the university, which sanctions may include permanent expulsion from the State University System or any lesser penalty.

Special Categories: The following categories shall be treated as Florida residents for tuition purposes:

Military personnel of the United States of America on active duty and stationed in Florida, including dependent members of their immediate families.

Veterans of the United States of America retired with twenty (20) or more years of active military service, including dependent members of their immediate families, who are in Florida at the time of retirement, or who move to Florida within one year following retirement and intend to make Florida their permanent home.

Full-time elementary, secondary, and junior college faculty members under current teaching contracts in the State of Florida. (This is construed to exclude the spouses of such faculty members.)

Full-time faculty and career employees of the University System and members of their immediate families. (This is construed to exclude the spouses of students.)

Financial information pertaining to registration fees and other charges, services, and benefits are consolidated in this section for easy reference. All fees are subject to change without prior notice.
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 page 34.

All fees are subject to change by action of the State Legislature, without prior notice. The University will make every effort to advertise any such changes if they occur.

1. Initial Application Fee
   (Each application—not refundable) $15.00

2. Registration and Tuition Fee
   Students who pre-register may receive a bill through the mail. However, the University is not obligated to send out such a bill. The student is responsible for paying fees in full by the appropriate due date stated in the particular quarter’s “Schedule of Classes.” Failure to do so will result in the student being assessed the $25.00 late registration fee.

A. On-Campus Courses
   (1) Full-time (Students registering for 9 or more quarter hours of credit, non-credit or audit courses)
      Florida Resident $190.00
      Florida Non-Florida Resident* $540.00
      Graduate $240.00
      Note: $90.00
   (2) Part-time (Students registering for less than 9 quarter hours of credit, non-credit or audit courses)
      Florida Resident $16.00 hr.
      Florida Non-Florida Resident* $43.00 hr.
      Graduate 20.00 hr.
      Note: The rates shown above apply to classified (degree seeking) students. Unclassified (non-degree seeking) student fees are based upon the course level. Courses for full-time unclassified students are assessed undergraduate rates when all courses are undergraduate, and graduate rates when one or more courses are graduate. A “Schedule of Classes” booklet is printed each quarter and can be used as a reference for updated information.

B. Off-Campus Courses
   Students taking off-campus (Continuing Education) courses will be assessed the same fees as classified and unclassified students taking on-campus courses. Continuing Education courses are designated by the “700 series” section number. The “Schedule of Classes,” which is printed each quarter, can be used as a reference for updated information.

3. College of Medicine Registration Fees
   A Florida student enrolled in the M.D. program in the College of Medicine will pay a fee of $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 by September, January, and March.

4. Late Registration Fee
   A $25.00 late registration fee is chargeable to any student who fails to register and/or pay in full the appropriate registration and tuition fee by the deadline date stated in the particular quarter’s “Schedule of Classes.” This fee is also charged when the check used for payment is submitted within the stated time limit but is returned to the University by the bank for any reason.

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

   Quarter I, II, III $160.00
   Quarter IV $140.00

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

   Saga Food Service
   20 meal plan—Mon. through Sun. $207.83
   15 meal plan—Mon. through Fri. 189.52
   12 meal plan—Mon. through Sun. 196.98
   10 meal plan—Mon. through Fri. 179.02

*See “Resident Status”
**Prices listed are for the academic year 1973/74 and are subject to change for the academic year 1974/75. Food service prices may be revised quarterly, if necessary.

Refund of Fees

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

1. Issuance
   The issuance of a registration refund will be detained for a two-week period immediately following each official University registration.

2. Withdrawals
   A. When officially requested by a student, a full refund of registration fees will be made if a student withdraws from the University on or before the final day of the regular “Drop-Add” period. (First week of classes).
   B. No refund of registration fees will be made if the student withdraws after the final day of the “Drop-Add” period except in the following cases:
      (1) If a student is involuntarily called back to duty with the armed forces.
      (2) Death of a student during the term for which enrolled.
      (3) Incapacitating illness of such duration and severity as to preclude successful completion of the academic program for the term for which a student is enrolled.

In the instances stated above, the refund will be:

   Full-time student:
      Registration fees paid less $43.00
   Part-time student:
      Registration fees paid less $2.08 per hour for an undergraduate student and $2.60 per hour for a graduate student.

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

4. Reduction of Class Load
   A student must officially drop a course within the “Drop/Add” period in order to be eligible for a refund.
Financial Information

A "Registration Refund Request" form (available in ADM 105) must be completed and presented to the Division of Finance and Accounting before any refunds will be initiated. The refund will be the amount paid less the proper charges per hour for each hour continued.

5. Late Fees
Late registration fees are not refundable.

6. Refund Monies Used to Clear University Debts
Deductions from authorized refunds will be made for unpaid accounts due the University.

Check Cashing Service
The University offers check cashing services under the following conditions:
1. The University will accept personal checks for accounts due the University. Each student is urged to make his own financial arrangements through his choice of commercial banks.
2. The University Cashier and the Bookstore will cash personal checks not exceeding $50.00.

Financial Aids
In order to be considered for financial aid, the student must complete a USF financial aid application, and file either a Parents' Confidential Statement or a Student's Financial Statement with the College Scholarship Service. These forms are available at the Office of Financial Aids. Priority will be given to students who are registered full-time, i.e., 12 or more hours as an undergraduate and 9 or more hours as a graduate.

The deadline for applying for scholarships is February 1 for the academic year beginning the following September, and the deadline for applying for other types of assistance is March 1. In awarding financial assistance, no student is discriminated against because of race, religion, creed, age, sex, color, national origin, or marital status.

Vehicle Regulations and Fees

4. If registered at the beginning or during Quarter IV ..................................................4.00
5. Vehicle registration for any one quarter or fraction thereof (OPS) employees, temporary employees, faculty and students) ........................................4.00

Two-Wheeled Vehicles

Students may use two wheeled vehicles on campus. Parking blocks, racks, and designated areas in parking lots are available to park two-wheeled vehicles. All two-wheeled vehicles used on campus must be registered with the University Police. Decal fee for two-wheeled vehicles is $2.00.

Special Services

Veterans Administration
The University of South Florida is approved for the education of veterans, servicemen, and dependents of totally and permanently disabled or deceased veterans (from service-connected disability). Educational benefits have also been extended to dependents of prisoners of war or servicemen missing in action for more than 90 days. Other benefits include additional amounts of Compensation and Pension which may be payable to eligible veterans and widows of veterans for children between the ages of 18 and 23 who are attending at least three class sessions per week.

Recent changes in VA regulations include the provision for the first benefits check to be available at the school, if requested as an Advance Payment, to be picked up by the student upon Registration, but not more than 30 days before the course is to commence. A further change in regulations advocates the Package Plan which allows students to submit

Payments 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 thirty (30) days of notification. Delinquent accounts may be considered sufficient cause for cancellation of registration. University regulations prohibit registration, or release of transcript for any student whose account with the University is delinquent.

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 University Police. A booklet entitled "Traffic and Parking Regulations" is made available to the student at the time of registration. Decals for three- and four-wheeled motor vehicles:

1. If registered prior to or during Quarter I ..............$10.00
2. If registered at the beginning or during Quarter II ..................................................8.00
3. If registered at the beginning or during Quarter III ..................................................6.00

3. A service charge of 10c is made for each check cashed.
4. Responsibility for the check rests with the final endorser.
5. The University will not cash three-party checks.
6. All checks returned by the bank must be cleared within five days from the date of notification to the student.

Failure to comply will result in cancellation of the student's registration.
applicable VA forms through the school, to be forwarded to the VA Regional Office with enrollment certifications to expedite processing.

All standard degree programs currently offered at USF are approved by the State Approval Agency, including the BIS Degree Program administered by the Center for Continuing Education. Non-credit courses offered through the Center are approved each time offered on a selected basis. Students enrolling in an unclassified (non-degree seeking) status should contact the Office of Records and Registration to confirm requirements for being certified for benefits.

To be eligible for full-time benefits, undergraduate and unclassified students must enroll for 12 hours each term. Degree-seeking graduate students must enroll for 9 hours to be eligible. Co-op students receiving benefits for "On Job" terms must maintain full-time status during "In Class" terms to avoid termination of benefits. The University and students are responsible to notify the VA of any change in status which affects the rate of benefits. Information and any assistance needed are available through the Office of Veterans Affairs on campus. All forms should be submitted to the Office of Records and Registration where certifications are processed. Certification procedures are published in the USF Schedule of Classes each quarter.

Tutorial Assistance, not to exceed $50 per month, up to a maximum of $450, is available for students who qualify. This service is provided through the Office of Veterans Affairs.

Selective Service System Student Reports

The granting of new student deferrals was abolished after the 1970-71 academic year. A registrant who had first entered college during that year would now have completed his senior year if satisfactory progress was maintained. On June 1, 1973, the Director of Selective Service directed all local boards to classify these registrants and others born prior to 1953 into Class 1-H (not subject to processing), and assign them to a lower priority group.

There are currently a very few registrants who were born in 1953 who are now eligible for classification in 2-S. They are the only students other than graduate medical students who would need to supply their local boards with verification from the school.

Student Reports for graduate medical students are sent to the local boards by the College of Medicine. Undergraduate students who receive notification from their local boards that verification of enrollment by the school is needed should contact the Office of Records and Registration to request Student Reports.

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 benefits under the Social Security Benefits Act. Students eligible for benefits should request their local Social Security office to forward form SSA 1372A to the Office of Records and Registration. Full-time enrollment will be certified on this form. The form is required one time only unless full-time enrollment is interrupted for a period other than a normal vacation period. Should benefits be terminated for any reason, students should then request that another form SSA 1372A be sent to the school.

To be considered full-time, students must enroll and remain enrolled for a minimum of 12 quarter hours. Students and school are responsible to notify the Social Security office when full-time enrollment ceases.

Railroad Retirement Annuity Award

The University maintains a file of students receiving Railroad Retirement Annuity Award benefits, notifying the Board when a student ceases to be enrolled full-time. A student ceases to be enrolled full-time when he is enrolled for less than 12 hours as an undergraduate and 9 hours as a graduate.

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

Bookstores

Textbook Center

Textbooks are located in the Textbook Center adjacent to the Central Receiving Building. Every attempt is made to have all required and recommended texts available the first day of registration.

USF Bookstore and Campus Shop

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

The Art and Engineering Department contains all course supplies 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 Lobby Shop area is stocked with LP record albums, tapes and cassettes, as well as scented candles, incense, and many other novelty items. This section also includes a large assortment of items such as candy, cigarettes, tobacco products, health and beauty aids, and campus wear.

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 film developing, special order service, check cashing ($50.00 limit), airline youth fare cards, fresh flower gift service, and magazine subscriptions at student rates.
STUDENT SERVICES AND STUDENT AFFAIRS

The University of South Florida is dedicated to the intellectual, social, and moral developments 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, both in and out of the classroom. 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.

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 community, 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: academic advising, financial aid, health service, individual and group counseling, career planning, placement, cooperative education, 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 (Focus), equal opportunity programs, residence halls, student government, student publications, organizations, activities, and events expressing a variety of special interests.

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 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 rights 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.

Student Government

All regularly enrolled students are voting members of the Student Government of the University of South Florida. They elect the college councils, the Student Government officers, and the student representatives to the University Senate. Student Government is an 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.

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 addresses will find the reply published in the earliest possible edition of The Oracle.

St. Petersburg Campus

A Student Affairs office is also maintained at the St. Petersburg campus. For information about the services and programs provided for these students, see page 114.

Financial Aids

The student financial aids program at the University of South Florida is a part of the Student Affairs program. For detailed information about financial aids see page 18.

Student Health Service

Comprehensive health care is provided for full-time students through the University Student Health Service which is located on the fourth floor of the University Center building.

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, seven 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 for Human Development, 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, Probation and Parole and Vocational Rehabilitation. These services are available to assist students in evaluating andremedying problems which interfere with efficient learning and satisfying participation in campus life.

The Career Counseling and Guidance Services utilize the resources and full referral potential of testing, Career Employment, the Career Information Library, Cooperative Education and Academic Advising. The counselors help students in evaluating and reality testing their personal potential for educational and career goals. The Career Information Library provides career information including guides to career planning, dictionary of occupational titles, encyclopedias, handbooks, college exploration kits, college catalogs, and career monographs.

Professional psychologists from the Personal Counseling Service of the Personal Resource Center will also assist students in Career Guidance, particularly those who may present identity, motivational, and other related personal problems.

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 screens all new students for speech and hearing differences which might affect their academic and vocational careers or social lives. Evaluative counseling is offered by professional speech pathologists who provide modification of such speech conditions as: unpleasant voice, faulty articulation, stuttering, foreign or regional accents, organic problems, etc. Individual and/or group sessions utilize the latest equipment. Audiometric testing and hearing conservation counseling is also available. Referrals are accepted from academic departments, especially those involving verbal communication. Liaison is maintained with related areas through referral in the management of student clients.

The Counseling Service is represented by different professional disciplines, including clinical psychologists, counseling psychologists, and social workers. The professional staff members assist students directly with emotional, personal, and/or career problems on an individual and/or group basis. In addition, this staff will train and supervise student paraprofessionals (mental health workers including drug rehabilitation leaders) and peer behavior managers (academic and interpersonal).

Students desiring special assistance in their courses, in order to qualify them in basic subjects preliminary to pursuit of an academic major, may apply to the Counseling Center for Human Development for tutoring. Tutoring on a fee basis can also be arranged in various courses. Fees charged by the tutors are set according to standard rates established by the Counseling Center for Human Development staff. Special paraprofessional non-fee tutorial services are also available.

Developmental English courses are offered at the Counseling Center for Human Development on a voluntary basis.
(non-credit) without charge to the full-time student, for the purpose of developing appropriate skills in rhetoric principles and practices in English composition.

Psychiatric Services aid the student when medication, hospitalization, or psychiatric evaluation is needed. Evaluations by the Counseling or Psychiatric Service 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.

Seven student paraprofessional programs operate under the supervision and training of Counseling Center professionals. These programs, which are staffed by volunteer students under the leadership of part-time paid experienced and qualified graduate and undergraduate students, include Helpline, Drug Rap Cadre, Behavior Modification, Veterans Affairs, Career Guidance, Black Peer Managers and Center Specialists.

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

Parole and Probation is another State service which provides counseling and supervision for the students involved.

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 limitations will restrict servicing of new applications to emergencies during peak periods.

Division of Cooperative Education & Placement

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

Cooperative Education Program

The program is open to majors in most disciplines offered at the University. The program's objective is a balanced education where occupational experience is an integral part of formal education, and theory is blended with practice. The ultimate objective of the program are to provide relevance in the educational process, direction in career planning, and bringing business and industry and governmental agencies close to the educational program of the University and have the graduates absorbed into permanent employment of the leading employers. Many types of organizations have joined the University as cooperative employers.

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. Transfer students must meet minimum requirements in addition to completing 12 USF quarter hours. 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. 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 then advance in the type of assignment from training period to training period.

Cooperative Education students may take course work 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.

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.

Graduating Students And Alumni

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

The Career Library provides the student with materials on vocational guidance, career opportunities, and employers. In addition, information on graduate schools is maintained.

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. An outdoor swimming pool in this complex is also available for student use.

Off-Campus Housing

The Student Government office located in the University Center maintains a list of off-campus housing. Listings are
accepted only from householders and landlords 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 a food service contractor. 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.

**University Center**

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

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

The basement level of the University Center is the recreational area. To be found here are eighteen billiard tables, six table tennis tables, two table soccer games as well as a table game room equipped with cards, and a variety of table games.

The crafts area has been expanded to include a large ceramics facility as well as leather work, copper enameling, macrame, candlemaking, and numerous other small crafts. Photography labs are also located in this area of the University Center.

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

In addition to providing services and facilities, the University Center also functions as a programming agency. The newly formed Student Entertainment and Activities Council (S.E.A.C.) is comprised of seven student Program Associates recognized as programming paraprofessionals. The seven areas of responsibility include President, Budgetary Officer, Major Events, Campus Entertainment, Publicity, Cultural and Educational, and University Community. These seven Program Associates, advised by professional program staff, provide a social, cultural, and recreational program to make leisure time activities more appropriate to student needs and desires. The overall program is designed to supply additional experience by providing opportunities to as many students and organizations as possible to become involved in all areas of program presentation.

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 student development may be well-rounded and complete. Enhancement of social skills and emotional development of the individual are also goals of this program.

The Student Entertainment and Activities Council has as its objective to provide a balanced program of activities reflecting the special social and recreational needs of a student's out-of-class interests. All activities are planned, arranged, and directed by the seven Program Associates and their respective student committees and volunteers. Any student may volunteer his services for any activity and for any length of time he chooses. Applications for the paid Program Associate positions are accepted each year during Quarter II. Any student wishing to apply should obtain information in the Program Office.

**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. Bay Players welcomes students interested in theatre. 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 exhibits 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.

**Fraternities and Sororities**

There are currently sixteen national fraternities and ten national sororities functioning on campus. They carry out a program of social, educational, service, and recreational activities for their members. Membership 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.

The fraternities are: Alpha Delta Pi, Alpha Epsilon Phi, Alpha Kappa Alpha, Chi Omega, Delta Delta Delta, Delta Gamma, Delta Sigma Theta, Delta Zeta, Kappa Alpha Theta, and Kappa Delta.

The sororities are: Alpha Phi Alpha, Alpha Tau Omega, Delta Tau Delta, Kappa Alpha Psi, Kappa Delta, Lambda Chi Alpha, Omega Psi Phi, Phi Delta Theta, Phi Gamma Delta, Pi Kappa Alpha, Pi Kappa Phi, Sigma Alpha Epsilon, Sigma Nu, Sigma Phi Epsilon, Tau Epsilon Phi, and Tau Kappa Epsilon.
Religious Organizations

The University has encouraged student religious organizations to develop associations and centers. Denominations have built members in a reserved area on campus. The Episcopal Center was dedicated in the fall of 1962 and the Baptist Center in the spring of 1964. The University Chapel Fellowship followed in 1966. (This center is an ecumenical campus ministry of the following denominations: United Methodist, Presbyterian, and United Church of Christ.) The Roman Catholic Center joined the others in the fall of 1967.

Student religious organizations active on campus include: Acts, Baha’I Club, Baptist Campus Ministry, Campus Crusade for Christ, Catholic Student Organization (Newman Club), Chi Alpha, Christian Science Organization, Episcopal-Canterbury Club, Jewish Student Union, Student Association of the Church of Jesus Christ of the Latter Day Saints, Lutheran Student Organization, University Chapel Fellowship and the Way.

Service and Honorary

There are many organizations devoted to serving the University and the Tampa Bay Area. These Service Organizations are: Alpha Phi Omega, Circle K, Ethos, Intensive Tutorial, and USF Volunteer Services Coordinating Committee. Membership to Honorary Organizations is usually by invitation. Honorary organizations at USF are: Beta Gamma Sigma, Gamma Theta Upsilon, Kappa Delta Pi, Mortar Board, Omicron Delta Kappa, Phi Kappa Phi, Pi Mu Epsilon, Phi Sigma, Tau Beta Pi, Themis, and Phi Lambda Pi.

Professional Fraternities

Many profession-oriented groups exist at USF. These include: American Society of Personnel Administration, Phi Chi Theta (management), Delta Sigma Pi (business), Phi Beta Lambda (business), Phi Mu Alpha (music), Pi Sigma Epsilon (marketing), Sigma Alpha Eta (Speech Pathology and Audiology), Sigma Alpha Iota (music), and Pi Sigma Alpha (government).

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: Afro-American Gospel Choir, AIESEC, Amateur Radio Club, Americans for Justice in the Middle East, Arab Club, Areopagus, Brahman Bull Band, Campus Advance, Caucus for a New University, Change, Classical League, College Republicans, Divine Light, Dump Nixon Coalition, Family Kitchen Co-op, Farmworker Friends, Head Theatre, Libertarian Alliance, Married Student Union, Movement of Spiritual Inner Awareness, Photo Club, PURE, R.A. Association, SISI, Socialist Union, Society for Creative Anarchism, Student International Meditation Society, Tampa Bay Rallye Club, and the Tape Bank Club.

Academic Departmental Organizations


Councils and Special Service Organizations

In addition to the above mentioned organizations, a number of groups provide programs, information, and governmental experience for the students, at the University. These include the College Councils, Black Student Union, College of Education Council, College of Fine Arts Student Advisory Board, College of Medicine Council, College of Natural Science Advisory Board, Cooperative Education Student Advisory Council, Engineering College Association, Inter-Fraternity Council, Language-Literature Council, Off-Campus Term Student Advisory Council, Panhellenic Council, College of Social & Behavioral Sciences Student Advisory Council, Sports Club Council, College of Business Student Advisory Council, and World Affairs Council.

Other Special Service Organizations are: The Oracle, Program Council-University Center, Senior Class, Student Entertainment and Activities Council, Student Government, and Student Organizations Advisory Board.

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 recreational activities, in addition to basic instructional programs in physical education.

The activities represent a broad selection of sports ranging from those of a highly competitive nature to those of a non-competitive type and include individual, dual, team, and aquatic sports. Through participation, students, faculty, and staff 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, billiards, handball, paddleball, wrestling, and archery, as well as the team sports of touch football, basketball, volleyball, and softball. Competition is scheduled through fraternal societies, residence halls, and independent divisions. Team awards are presented.

The Sports Club Program includes groups of students, faculty, and staff who have a special interest in a particular sports activity. They are organized for the purpose of increasing skills and augmenting knowledge through a continuing in-service training and competitive program. Each sports club is assisted by the coordinator of sports clubs in the selection of a faculty advisor, and the initial organization of the club is governed by University regulations. Students with special sports abilities or interests are encouraged to make them known so that when sufficient need and interest warrant, new sports clubs may be formed. Present clubs include: bicycle, bowling, fencing, gymnastics, judo, karate, lacrosse, rugby,
sailing, soccer, sports car, sports parachute, synchronized swimming, water skiing, weight lifting, wrestling, and yoga.

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, and tennis. The University of South Florida is a member of the National Collegiate Athletic Association and competes in the University-I level of competition. Schedules are arranged to include quality competition which reflects the high standards of the University. Women's athletics are encouraged. The University of South Florida holds membership in the Association for Intercollegiate Athletics for Women.

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

A 5-column tabloid campus newspaper, The Oracle, is published four times weekly, Tuesdays through Friday, during Quarters I, II, and III, and twice weekly, Tuesday and Thursday, during Quarter IV. Containing 12 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.

Omnibus, a quarterly magazine, is published during Quarters I, II, and III as a supplement to The Oracle. Omnibus I is a tabloid magazine containing general interest features and photos produced by students. Omnibus II (The South Florida Review) is a literary magazine containing prose, poetry, photography, and artwork contributed by students and other members of the University community. Omnibus III provides a pictorial review of campus activities and events during the academic year.

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

Division of University Studies
The Division of University Studies contains the offices of New Student Relations, Admissions, and Academic Advising. The Division is responsible for assisting USF students at the point of initial contact in the community, during the process of admission at the undergraduate or graduate levels, and until a choice of academic major is made.

It is the academic unit to which all new USF students are assigned for the first advising session unless they are transferring in 90 quarter hours or more and have formally declared a major. In addition to the responsibility for first advisement of all new lower level students, the Division is responsible for the continuing supervision of all students until a choice of academic major is made, whereupon the student enters the college containing the major department. After the first advisory session students may at any time declare a major and move to the college to be advised. Those who have not decided upon a major may remain in the Division of University Studies as “DUS” students until a maximum of 135 quarter hours are earned at which time a major must be selected.

As an administrative “home” for the USF undergraduate student who has not yet declared an academic major, the Division is a college without a faculty or courses, a facility where the student receives the information, services, and counseling necessary for effective decision-making in regard to his (or her) academic and professional future.

It is through the offices of this Division that high school students seek early admission, effect dual enrollment between high schools and community colleges and the University, and receive academic advisement until such time as they have chosen a major. The Division provides information and special services for veterans, minority students, and those who are above the traditional college age. Referrals to other student service units are freely made as the Division seeks to insure that all USF undergraduate students will progress toward graduation with optimal use of their time, interests, abilities, and the resources of the University.

Office of Academic Advising
The centralized academic advising office of the Division of University Studies employs a well-informed, accessible group of advisers whose primary concern is to assist students who have not selected an academic major and new lower level students in acquiring information on which they can base their educational decisions. The advisers provide the advisee with an empathetic relationship concerned with the variety of academic problems troublesome to students.

The office also assists the Office of New Student Relations as an initial point of contact for prospective students who are unfamiliar with the University structure and who need academic information about this institution. Since the decision about a major affects many aspects of a student's present and future life, the advisers in the Division maintain close liaison with other areas so they will be better equipped to use information from them in relation to the function of academic advising. Some of these resources are the college advising offices, the Counseling Center for Human Development, the Division of Cooperative Education & Placement, and Financial Aids.

A series of group sessions are carried out to bring faculty members, students who are majoring in particular areas, and various other resource people to the students who desire information on particular topics. It is an opportunity for the colleges to recruit prospective majors from students who have not yet declared a major although the sessions are open to all interested lower level students. These meetings are also an effort to extend the orientation program so that new students have the opportunity to get whatever information they need at the time they need it.

Housed in the advising office is the Special Services Program which is concerned with the implicit as well as the explicit needs of minority students. There is a coordinator of this program whose responsibility is to help these students get whatever assistance they need in addition to their academic advisement.

This office is responsible for the checking of requirements for the Associate of Arts Certificates.

Office of New Student Relations
The Office of New Student Relations assists prospective students, high school guidance counselors, parents, and the general public in securing information about the University of South Florida and its programs. Members of the New Student Relations staff represent USF at high school and college Career Education Programs throughout the State of Florida. Special programs, both on and off campus, are initiated to meet the needs and interests of a variety of populations. Among these
activities are presentations and preparation of printed information relevant to mature students, minority students, and veterans; seminars for high school counselors; and Campus Visitation Days for prospective students. These programs frequently represent a cooperative effort with other University divisions, public school systems, and community colleges in the local area. Invitations from schools, civic organizations, and youth groups for information and presentations about the University of South Florida are welcomed.

This office also serves as an initial point of contact for prospective students who are unfamiliar with the University and who are seeking general information about any aspect of the institution. Services include pre-admission counseling for high school students, veterans, minority group members, and mature, non-traditional college age individuals.

New Student Relations, in conjunction with the Admissions Office and other University units, administers the Early Admission, Dual Enrollment, New Student Orientation, and FOCUS: YOU AND USF programs.

New Student Orientation Program
At the beginning of each quarter, prior to the beginning of classes, all new full-time undergraduate students are expected to participate in the orientation program of the University. Normally a one-day program, orientation is designed to help new students become acquainted with the University and includes academic advising.

Students cleared for Quarter I (September) admission are urged to participate in FOCUS: YOU AND USF, a special summer orientation-early registration program, in lieu of orientation prior to the beginning of classes.

Office of Veterans Affairs
A full-time Office of Veterans Affairs is maintained in the University Center. This Office directs the University's PAVE program, which stands for Programs to Advance Veterans Education. All veterans, veteran dependents, and active-duty personnel can utilize the services of the Office. Highlights of the PAVE program include veterans admissions counseling and VA benefit advising. VA students with benefit problems should work through this Office to the VA for solutions.

The Vet-to-Vet Tutorial Program affords VA students the opportunity for tutoring in needed subject areas. Under the GI Bill, students can receive up to $50 a month for a maximum of $450 to pay for a tutor, who may also be a veteran. There is the opportunity for developmental coursework and GED certification on-campus and through cooperative effort with the Hillsborough Community College and Hillsborough County Adult Education programs. An experienced USF veteran, through the Vet-to-Vet Buddy Program, offers new students assistance in getting settled at the University and in the community. Active referral is made for financial assistance, student job placement, student housing, career planning, and academic advising.

Active-duty personnel can participate in PAVE. For information on Bootstrap, Degree Completion, and Project Transition, students should first check with their local military education or transition office.
The Office of Records and Registration, a department of the Registrar's Office, is responsible for maintaining the official academic records for all students and the course registration for currently enrolled students. Students are encouraged to contact the Office of Records and Registration should they have any general questions concerning this section of Academic Policies and Procedures or have an inquiry concerning their current registration or academic record. It is the responsibility of each student to be aware of the University's Academic Policies and Procedures in so far as they affect him.

Registration Procedures and Regulations

Change of Major

Change of Undergraduate Major: Undergraduate students desiring to change their majors should consult the Advising Office in the new and old college(s) of their interest.

Change of Graduate Program/Degree: Graduate students desiring to change their program or degree status must complete an "Application for Graduate Change of Program/Degree Status" available in the Office of Records and Registration. Students will be notified by the Office of Records and Registration of the College's decision concerning the student's acceptance into the new status. For further detail on acceptance into graduate programs, students should refer to page 39.

Adds

After a student has completed his registration on the date assigned to him, he may add courses until the "Add" deadline as specified in the academic calendar. Add Forms may be picked up and turned in at the College offering the course.

Drops

For the first six weeks of any term, a student may drop a course or courses without penalty by completing and turning in a form at the College offering the course. The student's permanent record will then show a grade of "W". Any course dropped after the first six weeks of classes will result in a grade of "F". Students should be particularly careful to use the correct reference number when dropping and adding courses. Incorrect reference numbers may result in the student receiving a failing grade in a course he intended to drop.

Auditing Privilege

If a student wishes to audit a course, he must obtain written approval on the audit form from the instructor of the course and section in which he wishes to enroll. Audit forms may be obtained from the Office of Records and Registration prior to registration or at the Registrar's information area at registration. The completed form must be submitted to the Office of Records and Registration or the College Office by the last day to add courses. Fees are charged at the same rate as credit courses.

Cancellation Before First Class Day

Students may cancel their registration by notifying the Office of Records and Registration prior to the first day of classes. If fees have already been paid, the student will receive a full refund of fees.

Pending Status

A student may be placed on "Pending" by failing to meet obligations to the University. When a student is on Pending, he may not be allowed to register, receive a diploma, or receive a transcript. Settlement of financial accounts must be made at the University Cashier's Office.

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

Academic Load

The maximum load for any undergraduate student is 18 hours unless approval is received from the Dean of the student's college or his authorized representative. Students classified as undecided must receive the approval of the Director of the Division of University Studies. The minimum load for a student to be considered academically full time is 12 hours.
Withdrawal
A student may withdraw from the University without penalty for the first six weeks of any term by submitting a completed Withdrawal form to the Office of Records and Registration. After that date grades of "F" will automatically be assigned for all course work.

Students who withdraw during the add period as stated in the academic calendar may receive a full refund of fees. No refund is allowed after this period except for specified reasons. See "Refund of Fees" for complete details.

Any student who withdraws a second time within four consecutive quarters of attendance must receive approval of the coordinator of Advising from his college before he is allowed to re-enter the University.

Student Information Changes
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 and Registration.

Grades and Scholarship Requirements
The University is concerned that each student makes reasonable progress towards his educational goals and will aid each student through guidance and faculty advising. To make a student aware of his academic progress, the University has enacted a system of grading and policies of Academic Warning and Disqualification which indicates whether or not a student is showing sufficient progress towards meeting degree requirements. Notations of Grades, Academic Warning, and Disqualification are posted to the student's permanent record.

When a student is disqualified from the University, not eligible to re-enroll, it may be in his best interest to re-evaluate his educational goals with an academic adviser in his college. If the student's poor academic performance has resulted from extenuating circumstances or if after a period of time the student feels he has gained adequate maturity and motivation, he may petition the Academic Regulations Committee for readmission. See "Academic Regulations Committee" for complete details on petitioning.

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

A—Superior performance
B—Excellent performance
C—Average performance
D—Below average performance, but passing
F—Failure
S—Satisfactory
U—Unsatisfactory
W—Withdrawal from course without penalty
H—Honors (Medical students only)
I—Incomplete
N—Audit

Grade Point Average
The University has a four point system of grading used in computing grade point averages. (A=4 grade points, B=3, C=2, D=1, F=0.) The grade point average is computed by dividing the total number of quality points by the total hours attempted at the University of South Florida. The total quality points are figured by multiplying the number of credits assigned to each course by the quality point value of the grade given. Courses with S, U, and I grades are subtracted from the total hours attempted.

Academic Warning Status and Disqualification
An undergraduate student is not in good standing if his cumulative Grade Point Average falls —

A) Below 1.500 and his quarter hours attempted are less than 45;

B) Below 1.700 and his quarter hours attempted are between 45 and 89.

A student falling into one of the above categories will be placed on Academic Warning. All students on Academic Warning who do not raise their cumulative Grade Point Average to a level of good standing within the next term enrolled will be placed on Final Academic Warning.

Should the student's Grade Point Average fall below 2.000 while his quarter hours attempted are more than 89, he will be placed on Final Academic Warning.

A student on Final Academic Warning must earn at least a 2.000 average the next quarter he is enrolled. Failure to do so will disqualify the student from continued attendance at the University of South Florida. If a student withdraws while on Final Academic Warning, he is automatically disqualified and must petition and secure approval of the Academic Regulations Committee for re-entry.

A student who fails to have a 2.000 cumulative Grade Point Average after attempting 135 quarter hours is automatically disqualified. A disqualified student must petition and secure approval of the Academic Regulations Committee before readmission. This rule overrides all others.

A disqualified student seeking to gain readmission must apply to the Academic Regulations Committee through the Office of Records and Registration.

Any student who is readmitted to the University directly following Disqualification will be placed immediately on a Final Academic Warning status.

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.

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

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.

In addition, qualified students may take any undergraduate course that is not required in the student's major or in the distribution requirements of the student's college on an S/U basis upon the written agreement of the instructor and the student. A student, therefore, may take any number of electives graded S/U and count them toward graduation, except that each college may specify the courses and the number of hours of S/U grades that can be used to fulfill its degree requirements.

S/U grades do not affect the student's Grade Point Average 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.
Students who expect to continue their studies beyond the baccalaureate level should plan their use of the S/U option according to the admissions standards of the programs they might enter.

"I" Grading Policy

An "I" grade may be used for an authorized failure to meet the requirements of a course. Until removed, the "I" is not computed in the grade point ratio for either undergraduate or graduate students. The time limit for removing the "I" is to be set by the instructor of the course. Normally this would be by the end of the quarter following the one in which the grade is given; for undergraduate students this time limit may not exceed three consecutive quarters, and/or time of graduation, whichever comes first. "I" grades not removed by the end of the time limitation will revert to grades of "U" or "F," whichever is appropriate.

Forgiveness Policy

The Forgiveness Policy allows a student to repeat a course and have only his latest grade computed into his grade point average. The use of the Forgiveness Policy is subject to the following restrictions:

1. The Policy applies even if the latest grade is lower than the first.
2. A student may repeat any course once. In order to repeat a course more than once, the student must receive prior approval from the Dean of his College or the Director of the Division of University Studies, if appropriate.
3. The policy is applicable to undergraduate students only. Once a baccalaureate degree is earned, a student may not repeat an undergraduate course and receive a waiver.
4. In cases where the course prefix, number, hours, or title are different, the student must receive approval from the College Dean verifying equivalence of the course.
5. The repeat course must be taken under the standard grading system (A,B,C,D, & F).
6. All grades for repeated courses will be retained on the permanent record, only the latest grades will be used in computing the grade point average.

To initiate the Forgiveness Policy a student must complete a "Repeat Course Waiver" form in the Office of Records and Registration for each repeated course.

General Academic Regulations and Information

Class Standing

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

<table>
<thead>
<tr>
<th>Class Standing</th>
<th>Credits Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 Special/Unclassified Non-degree seeking students</td>
<td>0</td>
</tr>
<tr>
<td>1 Freshman</td>
<td>0 through 44 quarter hours passed</td>
</tr>
<tr>
<td>2 Sophomore</td>
<td>45 through 89 quarter hours passed</td>
</tr>
<tr>
<td>3 Junior</td>
<td>90 through 134 quarter hours passed</td>
</tr>
<tr>
<td>4 Senior</td>
<td>135 or more quarter hours passed, however no baccalaureate degree earned here or elsewhere</td>
</tr>
<tr>
<td>5 Baccalaureate degree holder working on a second Undergraduate program</td>
<td></td>
</tr>
<tr>
<td>6 Graduate student admitted to Master's Degree Program</td>
<td></td>
</tr>
<tr>
<td>7 Graduate student admitted to Specialist Degree Program</td>
<td></td>
</tr>
<tr>
<td>8 Graduate student admitted to a Doctoral Degree Program</td>
<td></td>
</tr>
<tr>
<td>9 Professional Program (M.D.)</td>
<td></td>
</tr>
</tbody>
</table>

Academic Regulations Committee

The Academic Regulations 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 pertaining to admission, registration, withdrawal, and deadline policies.

The committee normally meets once a week. To petition the committee, a student must secure the appropriate form from the Office of Records and Registration. Completed forms should be returned to the Office of Records and Registration by 5:00 p.m., Friday, to be reviewed at the next week's meeting. Students will receive notification of the committee's action the following week.

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

Credit by Examination

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

Admission to a College

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

All undecided students are assigned to the Division of University Studies for purposes of advising until a choice of major is made. At that time, he/she may enter the college containing the major department. Undecided students may remain in this classification until a maximum of 135 quarter hours are earned. After that time, a major must be selected.

Availability of Courses

The University does not commit itself to offer all the courses, programs and majors listed in this catalog unless there is sufficient demand to justify them. Some courses, for example, may be offered only in alternate quarters or years, or even less frequently if there is little demand.

College Level Examination Program (CLEP)

The University of South Florida grants course credit for satisfactory performance on many of the College Level Examinations. The required performance level and specific examinations are subject to change; therefore applicants should inquire for more detailed information. For further information, contact the Office of Testing and Advanced Placement.

The following regulations refer to the application of this program:

1. A student may not receive both transfer credit and CLEP credit in the same area.
2. 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.
Advanced Placement Credit Program

The University of South Florida participates in the Advanced Placement Program conducted by the College Entrance Examination Board, which provides 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 instance, 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.

Independent Study

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

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

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

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. Grades earned, however, are not transferrable. Exception: Grades for University of Florida correspondence courses taken by Cooperative Education students will be computed in their University of South Florida grade point average.

Enrollment in Evening Courses

Evening courses at the University of South Florida are considered a part of the regular academic program; they are offered at times convenient to people within commuting distance who wish to continue their education at night while occupied during the day with other responsibilities. Requirements for evening courses are the same as those for the regular academic program.

Honors Convocation

As one way of emphasizing distinguished academic achievement by students, the University of South Florida holds an Honors Convocation each fall quarter to recognize those undergraduate students who have accumulated a grade point average of 3.5 or better in 12 or more quarter hours attempted each quarter at the University of South Florida during at least three quarters of attendance within the academic year immediately preceding the Convocation. Hours earned in courses for which only S/U grades are given are included in the 12 hours. Cooperative Education students may substitute one training quarter of satisfactory work for one of the three-on-campus quarters.

Dean's List

Full-time undergraduate students who demonstrated 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." Hours earned in courses for which only S/U grades are given are included in the 12 hours. The Dean of the College in which the student is majoring will award a certificate of recognition of this academic honor. Each undergraduate student will be recognized and honored after each quarter in which he demonstrates superior academic achievement.
Distribution Requirements

The University of South Florida provides that a wide distribution of academic areas should be a part of a formal university education. These distribution requirements may be satisfied over the four-year period by the completion of 60 hours with at least eight hours in each of the five areas listed below:

Area I—English Composition
ENG 101, 102, 103

Area II—Fine Arts/Humanities

Area III—Mathematics and Quantitative Methods
ECN 231, 331, ESC, MTH, PHI 303, SSI 301

Area IV—Natural Sciences
AST, BIO, BOT, CHM, GLY, NAS, OGY, PHY, PHS, ZOO

Area V—Social and Behavioral Sciences
AFA, AGE, ANT, CIP, ECN 100, EDF 377, GPY, HTY, POL, PSY, SOC, SSI (excluding 301), WSP

Acceptable in the total of 60 quarter hours but not part of any of the five areas:

CBS 401 (Senior Seminar — a general elective open to Sophomores, Juniors, and Seniors — see page 213, EDV 207* (The Teacher in a World of Work — see page 151), and LLI 200* (Use of the Library — see page 177).

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

All A.A. degree holders (from in-state or out-of-state accredited institutions) will be considered as having met our General Distribution Requirements and 90 quarter hours of work will be transferred. The determination of the prerequisites for a given academic program will remain the prerogative of the college in which the student is majoring.

Courses required for a student's major program** will not be counted in the total of 60 hours although areas of the general distribution requirements may be waived where appropriate.

No more than 12 hours in a single department may be counted toward distribution requirements for any area.

A student may appeal to the Coordinator of Advising in his or her college for exceptions to these prefixes or courses prior to registration in such courses.

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

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

**Major Program

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

b) Supporting or Related: These courses may be prerequisites to the specialization courses, or they may support specialized courses by giving preparation or breadth to the area of specialization. These courses are often referred to as college or program core courses.

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

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

Certification Requirements—Associate of Arts

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

A student receive the Associate of Arts must complete 90 quarter hours of University credit; the last 30 hours must be completed in residence at the University of South Florida; the minimum grade point average must be 2.0 based on work attempted at USF; and the General Distribution requirements of the University must be satisfied. Physical Education credits do not count toward the A.A. Certificate.

Application for the Associate of Arts certificate is obtained from the Office of Records and Registration prior to the application deadline. The certification must be awarded prior to the student's accumulation of 135 credit hours. Detailed instructions to determine the student's eligibility to receive the A.A. certificate are included with the application form.

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

The University of South Florida offers curricula leading to the baccalaureate degree in the following fields. The major code designations are listed in parentheses.

**College of Business Administration:**
- Accounting (ACC)
- Economics (ECN)
- Finance (FIN)
- Management (MAN)
- Marketing (MKT)

**College of Education:**
- Art Education (EDA)
- Botany Education (BOE)
- Business and Office Education (VBU)
- Chemistry Education (CHE)
- Classics and Ancient Studies Education (CLE)
- Distributive Education (VDE)
- Elementary-Early Childhood Education (EEC)
- Elementary Education (EDE)
- English Education (ENE)
- Exceptional Child Education Emotionally Disturbed (EMD)
- Mental Retardation (MRD)
- Specific Learning Disabilities (SLD)
- Health Education (HEN)
- Humanities Education (HUE)
- Industrial-Technical Education (VIT)
- Library-Audiovisual Education (EDL)
- Mass Communications-English Education (MCE)
- Mathematics Education (MAE)
- Modern Foreign Language Education (MOE)
- Music Education (EDM)
- Physical Education (EDP)
- Physics Education (PHE)
- Science Education (SCE)
- Social Science Education (SSE)
- Speech Communication-English Education (SEE)
- Zoology Education (ZOE)

**College of Engineering:**
- Engineering (EGU)
- Engineering Science (EGC)
- Engineering Technology (ETK)

**College of Fine Arts:**
- Art (ART)
- Dance (DAN)
- Music (MUS)
- Theatre Arts (TAR)

**College of Language and Literature:**
- American Studies (AMS)
- Anthropology-Linguistics (ANL)
- Classics and Ancient Studies (CLS)
- Classics and Ancient Studies and Modern Language (CLM)
- English (ENG)
- English-Linguistics (ENL)
- Foreign Language-Linguistics (FLL)
- French (FRE)
- German (GER)
- Humanities (HUM)
- Italian (ITA)
- Liberal Studies (ALA)
- Mass Communications (COM)
- Modern Languages (combination) (MOD)
- Philosophy (PHI)
- Religious Studies (REL)
- Russian (RUS)
- Spanish (SPA)
- Speech Communication (SPE)
- Speech Communication-English (ENS)
- Speech Communication-Theatre Arts (STA)

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

**College of Nursing:**
- Nursing (NUR)

**College of Social and Behavioral Sciences:**
- Afro-American Studies (AFA)
- Anthropology (ANT)
- Criminal Justice (CJP)
- Economics (ECN)
- Geography (GPY)
- History (HTY)
- International Studies (INT)
- Political Science (POL)
- Psychology (PSY)
- Social Science Interdisciplinary (SSI)
- Sociology (SOC)

**University Requirements**

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. 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 satisfy the University General Distribution Requirements and be recommended for graduation by the dean of the College granting the degree.

**Students’ Choice of Catalog**

In order to graduate from the University of South Florida, each student shall meet all of the graduation requirements specified in the USF Bulletin of his/her choice. The student may choose any USF Bulletin published during his/her continuous enrollment. Students who have transferred from one Florida public institution to another are affected by the following Board of Regents policy: "Graduation requirements in effect at the receiving SUS institution at the time a student enrolls at a Florida public institution of higher learning shall apply to that student in the same manner that graduation requirements apply to its native students provided the student has had continuous enrollment as defined in the SUS institution’s catalog."

At the University of South Florida, continuous enrollment is defined as completing a minimum of two terms per year at USF, inclusive of receipt of grades for courses, through time of graduation. Therefore, students cannot choose a USF Bulletin published prior to or during an academic year in which they did not complete at least two terms.

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

If the student cannot meet all of the graduation requirements specified in the Bulletin of his/her choice due to decisions and changes by the University in policy matters, course offerings, etc., appropriate substitutions will be determined by the chairman of the department or program of the student’s major.

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

**Double Undergraduate Major**

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

**Second Undergraduate Major**

Once a student receives a specific undergraduate degree (B.A., B.S., B.S. in Engineering, Bachelor of Independent Studies, etc.) at the University of South Florida, he/she cannot receive a second identical degree. However, the student may apply for a second major through the Admissions Office. (Exceptions to this rule are students who have already been accepted for a "Double Undergraduate Major" but graduated with only one major.) After acceptance by the appropriate college and proof of completion, the student’s "permanent academic record" will be posted accordingly.

**Repeat Course Work**

The hours for a course which has been repeated may be counted only once toward the minimum 180 quarter hours of credit required for graduation.

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**Two Degrees**

Two degrees of the same rank, e.g., B.A. and B.S., will not be conferred upon the same individual unless the second degree represents at least forty-five credits of additional work with the necessary requirements of the college awarding the degree and the residency requirement.

**Second Baccalaureate Degree (first received at another institution)**

Students already graduated from accredited four-year institutions who apply for admission to work toward another undergraduate degree must meet the University’s regular graduation requirements. A minimum of 45 quarter hours must be earned in on-campus courses to apply toward his degree and the student must meet the requirements of the college awarding the degree and the residency requirement.

**B.A. Degree for Medical and Dental Students**

Students who are admitted to a medical or dental school after completing their junior year at USF may be awarded the B.A. degree in Interdisciplinary Natural Sciences from the College of Natural Sciences. (See College of Natural Sciences on page 100.)

**Academic Residence**

Candidates must be recommended for graduation by the dean of the College granting their degree and must have completed at least 45 hours of the last 90 hours of their undergraduate credit in on-campus courses. The approval of the dean of the College granting their degree must be secured for any transfer credits offered for any part of these last 90 hours.

Exceptions to the above rules are students who are enrolled at other universities on approved exchange programs, Cooperative Education students enrolled in other institutions (prior approval having been secured from their USF advisers) while on their training periods, and students taking correspondence work from the University of Florida.

Candidates at the graduate level should refer to the residency requirements on page 42 and 43.

**Application for Graduation**

To be considered for graduation, a student must submit an "Application for Degree" to the Office of Records and Registration within the first 15 class days of the term in which he expects to graduate. The application form is available in the Office of Records and Registration. (Inquiries regarding approval or denial should be made to the colleges.)

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 average earned at USF of 3.5 or higher will receive a special notation on his diploma indicating that he has graduated with honors.

In addition to the above, transfer students must have a grade point average of 3.5 or above when combined with all work attempted at other institutions.
Bachelor of Independent Studies
Adult Degree Program

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

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

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

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

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

The fourth area of study, or inter-area studies, represents an opportunity to integrate the various insights gained from the first three study areas. Fourth area study is essentially a thesis-oriented experience. Representative procedures, which are supervised by a primary adviser and two other thesis committee members, include inter-area reading, thesis prospectus, research, preparation of a provisionally acceptable thesis, a thesis oral examination (on campus), thesis revision, and final acceptance of the thesis by the thesis committee chairman.

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.

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:

- Application Fee ........................................ $15.00
- Pre-Enrollment Procedures ......................... 50.00
- 1st Study Area
  - Independent Study ................................ 250.00
  - Seminar ............................................. 250.00
- 2nd Study Area
  - Independent Study ................................ 250.00
  - Seminar ............................................. 250.00
- 3rd Study Area
  - Independent Study ................................ 250.00
  - Seminar ............................................. 250.00
- Fourth or Inter-area Studies ......................... 550.00

TOTAL* .................................................. 2115.00

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

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

The BIS Program is administered through the Center for Continuing Education. It is academically responsible to the Vice President for Academic Affairs through the BIS Council. Brochures are available on request. For further information, write: Director, BIS Program, University of South Florida, Tampa, Florida 33620.

Graduation Requirements—Graduate Programs

For complete discussion of graduate programs and academic policies and procedures, students should refer to the section on "Division of Graduate Studies."

Allen Administration Building
Special Academic Programs

USF-HCC Interinstitutional Agreement
Some undergraduate students may find it advantageous to cross enroll at Hillsborough Community College and the University of South Florida. Procedures have been developed to permit dual registration in HCC courses if the USF student's adviser approves them as being appropriate for his academic program. While the grade point average earned at HCC will not transfer to USF, credit for the courses taken will apply toward graduation.

Those wishing to dually enroll at USF and HCC should contact their adviser for additional information.

HCC students may also dually enroll at USF under a reciprocal agreement between the two schools.

Special Student Enrollment
Individuals wishing to register for courses but not working for a degree may enroll as "Special" students. For detailed information, refer to page 12.

Cooperative Education
The University of South Florida participates in a Cooperative Education Program in which students can combine their formal education with an occupational experience. For description of the program, refer to page 22.

Upward Bound
Upward Bound is a pre-college preparatory program designed for secondary students with academic potential who are underachievers and are desirous of attending a college or post-secondary vocational institution.

To qualify, the applicant must (1) be in the 10th or 11th grade, (2) meet a pre-determined family income criterion, and (3) have grades within the range stated in the guidelines. Applications should be forwarded to Richard F. Pride, Director, Project Upward Bound, at the University of South Florida.

Your Open University (Y.O.U.)
Y.O.U. is a means by which individuals, regardless of previous educational background, can earn credit through the media of television and radio in their own home. Individuals who cannot attend the University under normal circumstances and on-campus students may enroll in the Y.O.U. courses.

Y.O.U. courses are broadcast over WUSF (FM)-TV in the late afternoons and evenings. In certain areas these courses are also transmitted over cable television.

Y.O.U. credit courses are considered the same as on-campus courses and cost the same as comparable courses taught on the University campus.

Course offerings are published regularly. For further information, interested persons should contact the Y.O.U. administrative offices of the University.

Early Admission
Early admission is open to qualified high school students who wish to enter the University of South Florida as regularly enrolled students prior to high school graduation. For detailed information refer to page 11.

Courses by Newspaper
This project, originated by University Extension, San Diego, California, presents a series of articles written by distinguished scholars on various aspects of American concerns. The articles are published weekly in cooperating Bay area newspapers. Persons who enroll for credit purchase a supplementary kit containing further readings, a study guide, and a bibliography. In addition, participants meet with a local academic coordinator in two three-hour sessions of discussion and examinations, at the midpoint of the course and at the end. These meetings will be held in several Bay area locations, and registrants will be notified in advance of the scheduled meetings in the location most convenient to them. For further information, contact the office for American Studies.

Continuing Education
The University of South Florida, Center for Continuing Education, serves an ever widening community with a variety of credit and noncredit Public Service programs and special activities designed to meet individual and organizational educational needs. Programs are offered in many locations, but are coordinated from the Center for Continuing Education's Offices located on the Tampa campus, the St. Petersburg campus, and in Sarasota.

Credit Courses: For a discussion of the credit course offerings, refer to page 14.

Noncredit Programs: A variety of noncredit educational programs (conferences, workshops, seminars, short courses, 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 Continuing Education Unit (CEU) is recorded for all noncredit programs and special activities conducted by the University. The CEU is awarded to participants in select programs sponsored by Continuing Education and approved by an academic unit. Transcripts indicating awarded CEU's will be available on request.

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 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.

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, 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 a 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.

Off-Campus Term Program

The Off-Campus Term (OCT) Program offers a program of experience-study whereby all students are encouraged to spend at least one 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 experience for academic credit. For example, students may become involved in social action projects, international travel or study, independent research-study work, or internship projects, and many other personalized projects—all off campus and all for academic credit.

While most student activities are individually designed and implemented, the OCT Program also provides for some group projects. Foremost of these are four to six credit hour, faculty-led, short term group projects in Jamaica several times annually and Urban Survival projects for 12 to 16 hours credit in

New York City, Atlanta, New Orleans, and other cities. Quarters I through III. The latter projects involve intense urban interaction and living in an inner-city hotel at most favorable student rates.

Academic credit is earned by students while engaged in off-campus activities through the OCT Program. The number of hours of credit varies according to student interest and proposed activities. Students may enroll and pay fees for variable hours of credit from 1 to 5. 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.

Exchange Programs

National Student Exchange

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

In addition to the University of South Florida, other universities participating in this program are California State College at Bakersfield, Moorhead State College (Minn.), Morgan State College (Md.), Illinois State University, Montana State University, Ohio University, Oregon State University, South Dakota State University, Paterson State College (N.J.), Towson State College (Md.), Rutgers University, West Chester State College (Pa.), and the Universities of Alabama, Hawaii, Idaho, Massachusetts, Montana, Nevada (Reno), Oregon, and Wisconsin (Green Bay).

Under the National Student Exchange 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 point 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.

University of Maine Exchange Program

The College of Education operates a student-faculty exchange program with the University of Maine, Farmington. This program provides opportunities for upper division students and selected faculty members to exchange residence at both campuses. The student exchange provides a waiver of out-of-state tuition. University credit earned is applicable towards graduation. Students desiring further information should contact the coordinator of student activities in the College of Education, EDU 309.

Study Abroad Programs

Students at the University of South Florida are eligible, if they meet the specific academic requirements, for enrollment in a wide variety of study abroad programs sponsored by the Florida State University System as well as by certain other U.S. colleges and universities, national educational organizations, and foreign institutions of higher learning.

Programs of the Florida State University System are listed below.

Administered by the University of Florida: year abroad program at the University of Utrecht in the Netherlands; year abroad program, University of the Andes, Bogota, Colombia.

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

Administered by the Department of Modern Languages, University of South Florida: one or more quarters each academic year at the National University of Mexico, Mexico City.

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

Students who prefer independent study abroad, rather than the formal institutional programs, may do so through the Off-Campus Term, (opposite page). The Off-Campus Term also offers an intersession program in Jamaica which is conducted three times each calendar year.

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

Information about these and other programs, as well as advising on study abroad, may be obtained from the Overseas
Florida College Exchange Program

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.

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, refer to page 40.

Academic Support and Services

University Library

It is important that a library take into account not only the books on its shelves but also the people it serves. This point of view is central in the philosophy of the University of South Florida Library. 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. 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.

To assist students in learning about the resources of the Library, the Library staff offers a two-credit course, *Use of the Library* (LL 100). The Library Reference staff also gives lectures to classes when requested by the faculty and has a daily workshop assisting students in the finding, gathering, and compiling of information for term papers.

The University Library has approximately 400,000 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 located on the first floor. Special Collections include the Florida Collection, rare books, University Archives, and the Florida Historical Society Library.

The Reference collection and U.S. Government documents collection are located 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. The microfilm collection and the readers for these materials are also in the Reference room. The Library is a depository for U.S. Government publications; the Documents staff assists students in using the documents.

The balance of the circulating book collection is on the third floor. The periodicals collection is on the fourth floor. 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.

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.

A new library building which will provide space for 750,000 volumes and seating for 2,500 readers is under construction. When the library services are moved into the new building, the library staff will conduct orientation sessions to enable students to become familiar with the increased facilities.

Division of Sponsored Research

Research is an important aspect of the educational programs of 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 drafting research proposals. All proposals seeking outside support are transmitted by this office.

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

The Computer Research Center makes computing services available to users through its Office of Services, which establishes the required user project identifications, through Instruction and Research consultants, and, in the data systems area, through project teams consisting of Systems Analysts and Programmers. The staff also includes keypunch and computer operators and systems (software) technical specialists. The Center operates as a service facility, is centrally funded, and makes no charge for normal consulting and processing services.

Computing equipment includes an IBM 360/65 system, a plotter, remote batch job entry stations and other on-line keyboard terminals at various locations, in addition to tape and disk storage units at the central site. Remote access units are also located at the St. Petersburg campus. The Center, occupying the second floor of the Science Center, maintains keypunch, sorter and electronic calculators in "open use" areas to enable students and faculty to prepare and check their programs and data. These areas are accessible in general on a 24-hour basis each day.

Educational Resources

The Division of Educational Resources offers the following services:
Audiovisual Services. Audiovisual Services make a variety of equipment and instructional material 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, photography, 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. WUSF is an FM stereo station operating on 89.7 mhz. WUSF-TV, Channel 16, UFH, 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 Publication Center. The center offers both graphic and photo facilities for staff and student use.

*Fine Arts Building*
The Division of Graduate Studies is administered by a Director who coordinates the admission of graduate students to the University, advises on the budgetary request and internal allocation of state funds for the support of graduate training, administers graduate scholarships and fellowships, allocates graduate out-of-state tuition waivers, and certifies final approval of all graduate theses and dissertations.

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

Admission to Graduate Study

Graduate students are advised to apply early as the University accepts applications one year in advance. Applications for which all credentials are not received by the deadline (see academic calendar, pp. 4-5) will not be considered for that term. Some departments admit graduate students only in the fall. If so, this fact is stated in the description of the requirements for the program. A $15 non-refundable application fee must accompany the application unless the student has been previously enrolled and has paid the fee at the University.

The minimum requirements for admission to graduate studies include:

1. A baccalaureate degree or its equivalence from an accredited college or university. This requirement may be waived for students accepted into certain approved programs which lead directly to graduate degrees.

2. A "B" average (3.0 on a 4 point scale) or better in all work attempted during the last two years of undergraduate work (Junior and Senior years) or a total score of 1000 or higher on the Graduate Record Examination Aptitude Test. Applicants for the College of Business Administration (except Economics) must submit a score of 450 or higher on the Admission Test for Graduate Study in Business in lieu of the GRE. Test scores are required of all applicants, even though admission may be based on undergraduate grades. The GRE is given six times a year at a multitude of centers in the U.S. and in many foreign countries. Candidates must register for this examination at least four weeks in advance of the test date and should allow six weeks for the receipt of their test scores.

3. Acceptance by the college and the program for which the student is applying including satisfaction of any additional requirements specified by them in this bulletin.

4. Foreign Students are required to present satisfactory scores on the Test of English as a Foreign Language (TOEFL). Foreign students must also comply with requirements listed on pages 12-13.

Procedure for Applying

1. Applicants must submit application and fee prior to the deadline.

2. Two official transcripts from every institution of higher learning attended must be submitted directly to the Office of Admissions.

3. a. Admissions test results are required from every applicant. These must be sent directly to Graduate Admissions. All applicants except those applying to Business Administration (see below), must submit scores from the GRE aptitude test taken within 5 years preceding application.

   (1) Graduate Record Examination Aptitude Test. Applicants to business administration, except those applying to Economics, must submit scores from the ATGSB. Those applying to Economics must submit scores from the GRE aptitude test (see above).

   b. Postponement of Admission Test: If applicant has a grade point average of 3.0 or better in his last two years of undergraduate work but has not taken the GRE or ATGSB he may be admitted as a degree seeking student subject to receipt of satisfactory admissions test scores. Required test scores must be received before a second registration will be permitted.

4. If satisfactory scores are not received, the department or program will notify the student in writing that he is suspended from further work in that degree program.
and a copy of this letter will be furnished the Director of Graduate Studies.

A student's acceptance to graduate standing is granted for the quarter and for the particular program 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 Records and Registration six weeks prior to re-registration in order to have his enrollment reactivated.

A graduate student enrolled for work in a program who wishes to change to another program must make formal application through the Office of Records and Registration. If, on completion of one graduate degree, a student wishes to begin work on another advanced degree at USF, he must reapply at the Office of Admissions.

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

Those interested in enrolling as special students are urged to contact the Coordinator of Graduate Studies in the College offering the courses concerned for a description of requirements and procedures.

The 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
Applications for the University Scholar Fellowships and Graduate Council Fellowships are available from the Graduate Studies Office. Teaching and Research Assistantships are awarded by the individual departments.
THE GRADUATE PROGRAMS

Master’s Degree Programs
The University of South Florida offers curricula leading to the Master’s degree in the following fields. The major code designations are listed in parentheses.

College of Business Administration:
- Accountancy (MAC)
- Business Administration (BUS)
- Economics (ECN)
- Management (MAN)

College of Education:
- Administration & Supervision (ESA)
- Curriculum & Instruction (CUR)
- Art Education (EDA)
- Elementary Education (EDE)
- English Education (ENE)
- Guidance (EDG)
- Humanities Education (HUE)
- Library Audiovisual Education (EDL)
- Mathematics Education (MAE)
- Modern Foreign Language Education
  - French, German, Spanish (MOE)
- Music Education (EDM)
- Physical Education (EDP)
- Reading Education (EDR)
- School Psychology (PSE)
- Science Education (SCE)
- Social Science Education (SSE)
- Speech Communication Education (SPH)

Junior College Education
- Astronomy (AST90)
- Biology (BIO90)
- Business (BUS90)
- Chemistry (CHM90)
- Economics (ECN90)
- Engineering (EGP90)
- English (ENG90)
- French (FRE90)
- Geography (GYP90)
- Geology (GLY90)
- History (HTY90)
- Mathematics (MTH90)
- Physics (PHY90)
- Political Science (POL90)
- Psychology (PSY90)
- Sociology (SOC90)
- Spanish (SPA90)
- Speech Communication (SPE90)
- Exceptional Child Education
  - Emotionally Disturbed (EMD)
  - Gifted (GIF)
  - Mental Retardation (MRD)
  - Specific Learning Disabilities (SLD)
- Vocational Education
  - Adult Education (VAD)
  - Business and Office Education (VBU)
  - Distributive Education (VDE)
  - Industrial-Technical Education (VIT)

College of Engineering:
- Electrical Engineer — Post Baccalaureate (EGM)
- Engineering — Post Baccalaureate (EGP)
- Engineering — 5 year program (EGG)*
- Engineering Administration — Post Baccalaureate (EGM)
- Engineering Science (EGC)

College of Fine Arts:
- Art (ART)
- Music (MUS)

College of Language and Literature:
- English (ENG)
- French (FRE)
- Linguistics (LIN)
- Philosophy (PHI)
- Spanish (SPA)
- Speech Communication (SPE)

College of Natural Sciences:
- Astronomy (AST)
- Botany (BOT)
- Chemistry (CHM)
- Geology (GLY)
- Marine Science (OGY)
- Mathematics (MTH)
- Microbiology (MIC)
- Physics (PHY)
- Zoology (ZOO)

College of Social and Behavioral Sciences:
- Aging Studies — Gerontology (AGE)
- Anthropology (ANT)
- Communicology
  - Audiology — Post Baccalaureate (AUD)
  - Audiology — 5 year program (AUF)*
  - Aural (Re)Habilitation (ARH)
  - Speech Pathology — Post Baccalaureate (SPP)
  - Speech Pathology — 5 year program (SPF)*
- Geography (GYP)
- History (HTY)
- Political Science (POL)
- Psychology (PSY)
- Rehabilitation Counseling — Post Baccalaureate (REH)
- Rehabilitation Counseling — 5 year program (REF)*
- Sociology (SOC)

*Available only to non-baccalaureate degree holders.

Intermediate Program
The University of South Florida offers a curriculum leading to the Education Specialist degree in the following field:

College of Education:
- Education (EDU)

Professional Programs
The University of South Florida offers a curriculum leading to the M.D. degree in the following field:

College of Medicine:
- Medicine (MED)

Ph.D. Programs
The University of South Florida offers curricula leading to the Ph.D. degree in the following fields:
REGULATIONS GOVERNING GRADUATE STUDY

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.

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 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 professor, with a copy to the college dean. At the end of the probationary quarter, the major professor shall recommend to the college dean, in writing, one of three alternatives: (1) removal of probationary status; (2) continued probation; or (3) drop from degree program. Every effort will be made during the probationary period to aid the student in reestablishing his standing.

Appeals

Graduate students may appeal actions regarding their academic status:
1. In actions based on departmental requirements, the student may appeal first to his department through his major professor, 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.

Enrollment Requirements — Minimum University Regulations

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 12-15 credit hours.

Students who continue to occupy space and to receive faculty supervision, but who have not made a final thesis submission at the start of a quarter, shall register for a minimum of 3 hours. The exact number of hours is determined by staff and facilities needed to support the student.

Graduate Teaching and Research Assistants who work one third time or more shall pursue a full-time course load each quarter. Exceptions may occur but only after careful review by the Department Chairman and concurrence by the College Dean and Director of Graduate Studies.

College of Natural Sciences:

Biology (BIO)
Chemistry (CHM)
Mathematics (MTH)

College of Social and Behavioral Sciences:

Psychology (PSY)

Master’s candidates shall not be employed on grants in excess of two years. Exceptions to this shall require approval of the College Dean and the Director of Graduate Studies.

Transfer Credit

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

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 his department properly notifies the Office of Records & Registration regarding transfer credits.

Change of Graduate Degree Program

A student who wishes to change his advanced degree program must obtain a Graduate Change of Program Status Application from the Office of Records and Registration. The change of program is completed upon acceptance of the student by his new department.

Application for Degree

Each student who plans to complete his graduate requirements by the end of a term must complete the Application for Graduation within 15 class days after the beginning of that term. The application is available at, and after completion must be returned to, the Office of Records and Registration.

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 the professor of the course, his major professor and the Dean of the College who will approve his degree.

Other procedures involving grades such as drops, withdrawals, audits, etc. are the same as those used for undergraduates (see pp. 27-28).

Exclusions

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

Faculty Eligibility

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

M A S T E R ' S D E G R E E

Program of Study and Course Requirements

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

A minimum of 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 normal, regularly scheduled coursework, 15 of which must be at the 600 level. Courses at the 500 level are acceptable for credit toward the master's degree when taken as a part of a planned degree program.

A major professor 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.

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 department chairperson and the Supervisor of Graduate Studies. Notification of the committee appointment will be sent to the Dean of the College and to the Director of Graduate Studies. The committee will approve the course of study for the student, supervise his research, and accept his thesis.

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.

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 Dean of Graduate Studies at least three weeks 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 must 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.

Ph.D. DEGREE

The degree of Doctor of Philosophy is granted in recognition of high attainment in a specific field of knowledge. It is a research degree and is not conferred solely upon the earning of credit and completion of courses or by the acquiring of a number of terms of residency. The amount of residence and the requirements suggested below are a minimum. The degree shall be granted upon 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.

Student Committees

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

Language Requirement

Before a student is eligible to take the comprehensive qualifying examination, he must normally have completed a reading knowledge of two foreign languages. However, special work done outside the student’s field of concentration, and related subjects may be substituted for one or both languages, provided this exception is recommended by the student’s dissertation committee and approved by his department’s Graduate Committee.

Residency

The minimum requirement shall be three academic years of work beyond the bachelor’s degree. At least one academic year of residence must be on 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 supervisory 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**

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

**Admission to Candidacy**

A graduate student does not become a candidate for the Ph.D degree until he is formally admitted to candidacy. This admission is granted when the dissertation committee certifies that the student has successfully completed his comprehensive qualifying examination and in the opinion of his 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 and at least three weeks before the end of the quarter in which the student is to receive his degree, 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 must conform to the guidelines in the *Handbook of Graduate Theses and Dissertations* available in the University Bookstore.

**Final Examination**

As soon as the dissertation is completed and accepted by the University a final examination shall be scheduled. The chairman of the examination shall be appointed by the Dean of the College and shall not be a member of the student's Dissertation Committee or the department or program in which the degree is sought.
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.

The undergraduate curriculum leads to a Bachelor of Arts Degree in one of the following five major fields: Accounting (ACC), Economics (ECN), Finance (FIN), Management (MEN), and Marketing (MKT). 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 economics, business, or administration.
2. To strengthen students' powers of creative, independent analysis, and sensitivity to social and ethical values.

3. To instill in students a desire for learning that will continue after they have graduated and taken their place in the community.

The graduate programs in the fields of Accounting, Business Administration, Economics, and Management are structured to accomplish the following objectives:

1. To make high quality 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.

BACCALAUREATE LEVEL DEGREE PROGRAMS

Admission to the College

Students who are currently in good academic standing at the University of South Florida may be admitted to the College of Business Administration by filing an intent to major in an undergraduate business degree program, in the undergraduate studies office.

Transfers 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 distribution 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.

All transfer students, particularly those not pursuing the parallel program, 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 Administration 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.

Transfers from Non-Junior Colleges: Transfer credit will be allowed for general education courses similar to those required at the University of South Florida. The prerequisite courses in business subjects of accounting principles, economics principles, and mathematics may also be given transfer credit.

Business Prelaw: Those students intending to enter a law school after obtaining a baccalaureate degree in a business major should so indicate on their application to the College. Special counseling will be provided. Unless a specific degree (Accounting, for example) is desired, an explicit Prelaw interdisciplinary set of existing courses will be arranged under the Finance major.

General Requirements for Degrees

The general graduation requirement is 180 academic quarter hours.

Of the 180 hours, the Business course credits may vary from 87 minimum to 100 maximum, depending upon the major field chosen and electives.

If the student enters USF as a freshman, his requirements for graduation in the College of Business Administration are:

1. General Distribution Courses: 60 hours distributed over five areas (see below).
2. General Electives: 20-27 hours to be chosen from courses not listed in the General Distribution areas;
3. Business Core: 53 hours which includes 9 hours of Accounting (ACC 201, 202, 300), 8 hours of Economics (ECN 201, 202), 5 hours of Intermediate Price Theory (ECN 301); 8 hours of Statistics (ECN 221, 331); 5 hours of Finance (FIN 301); 5 hours of Management (MAN 301); 5 hours of Law (GBA 361); 3 hours of Computer Application (GBA 333);
4. Major Area: 20-27 hours with a 2.0 GPR in these courses;
5. Business Electives: 7-20 hours

Note: College Level Examination Program (CLEP) may be substituted for course work in the General Distribution area and some courses in the Business Core. For specific details see page 29.

General Distribution Requirement

General Distribution Requirements for the College of Business Administration are identical to those required by the University as outlined on page 31.

6. Students transferring with General Distribution requirements met need not adhere to the General Distribution 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 an excess of six quarter hours of Elementary Accounting must still complete ACC 300 in the Business Core. The extra hours of Elementary Accounting transferred will apply toward the Business electives requirements. Those bringing in 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.

Business is requiring more and more analytical functions of its management-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 beginning calculus to his curriculum at the junior college.

MASTER'S LEVEL DEGREE PROGRAMS

Graduate courses offered in the College of Business Administration lead to four degrees: Master of Accountancy, Master of Arts in Economics, Master of Business Administration (available with an emphasis in any department), and Master of Science in Management. Applicants must meet the University requirements (see pages 39-40). However, for programs in this College (except the M.A. in Economics), a score of at least 450 on the Admission Test for Graduate Study in Business (ATGSB) is required instead of the Graduate Record Examination. Applicants whose ATGSB score is below 450 or whose grade point ratio is below 2.75 for the last half of undergraduate work will be admitted only for exceptional reasons on a probationary basis.

Students will consult with the College Director of Graduate Studies to determine what, if any, background deficiencies exist. Such deficiencies can be remedied by various arrangements made in consultation with the Director (e.g., under-

PROGRAMS AND CURRICULA

ACCOUNTING (ACC/MAC)

This program is designed to prepare students for entry into the fields of public accounting, private accounting, and accounting in the public sector.

Requirements for the B.A. degree (ACC):
Students in this program must take 27 credits in upper level accounting, 53 credits in the Business Core, and 7-20 credits in Business electives. It is strongly recommended that all accounting students take either GBA 371, Business Communications, or ENG 350 Advanced Expository Writing. Required Accounting Courses (27 credit hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 301 ,302</td>
<td>5,5</td>
</tr>
<tr>
<td>ACC 411</td>
<td>3</td>
</tr>
<tr>
<td>ACC 421</td>
<td>5</td>
</tr>
<tr>
<td>ACC 423</td>
<td>3</td>
</tr>
</tbody>
</table>

Plus 6 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 401</td>
<td>3</td>
</tr>
<tr>
<td>ACC 402</td>
<td>3</td>
</tr>
<tr>
<td>ACC 405</td>
<td>3</td>
</tr>
<tr>
<td>ACC 412</td>
<td>3</td>
</tr>
</tbody>
</table>

The above courses would normally meet the requirements for a student to take the CPA examination in the State of Florida. Any further questions regarding the CPA examination would be directed to the Chairman of the Department of Accounting.

Requirements for the Master of Accountancy Degree (MAC):
The Master of Accountancy Program is designed to meet the increasing needs of business, government, and public accounting for persons who have professional training in accounting as well as a background in such areas as quantitative methodology, economic analysis, and management science.

For the student who has the equivalent of an undergraduate major in accounting, the program consists of approximately 48 quarter hours. A minimum of 18 quarter hours (and not more than fifty percent) of the program is devoted to the study of professional accounting. Another 18 quarter hours of the program consists of study in the related areas of financial management, economics, management science, and quantitative decision models. The remaining 12 quarter hours of the program course work is elected by the student in consultation with his graduate adviser. Elective courses taken in the area of accounting may not exceed six (6) quarter hours.

Admission is open to any student who has a baccalaureate degree and meets the University graduate requirements. Students who do not have the equivalent of an undergraduate degree in accounting will be required to take additional courses. The number of additional courses deemed necessary will depend on the academic background of the individual student. Required courses are:

Accounting Courses (18 cr. hrs.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 605</td>
<td>Development of Accounting (3)</td>
</tr>
<tr>
<td>ACC 606</td>
<td>Contemporary Accounting Theory (3)</td>
</tr>
<tr>
<td>ACC 607</td>
<td>Systems Theory and Quantitative Applications (3)</td>
</tr>
<tr>
<td>ACC 611</td>
<td>Federal Tax Research and Planning (3)</td>
</tr>
<tr>
<td>ACC 621</td>
<td>Managerial Cost Analysis and Control (3)</td>
</tr>
<tr>
<td>ACC 623</td>
<td>Ethics and Responsibility in Professional Accountancy (3)</td>
</tr>
</tbody>
</table>

Business Courses (18 cr. hrs.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBA 603</td>
<td>Quantitative Methods I (3)</td>
</tr>
<tr>
<td>GBA 605</td>
<td>Quantitative Methods II (3)</td>
</tr>
<tr>
<td>MAN 602</td>
<td>Administrative Decision Procedures (3)</td>
</tr>
<tr>
<td>ECN 607</td>
<td>Aggregate Economics (3)</td>
</tr>
<tr>
<td>FIN 601</td>
<td>Financial Management (3)</td>
</tr>
<tr>
<td>6XX</td>
<td>Economics or Finance Elective (3)</td>
</tr>
</tbody>
</table>

Electives
(At least six quarter hours must be in non-accounting courses) (12)
BUSINESS ADMINISTRATION (MBA)

The Master of Business Administration program is designed to enable persons with diverse backgrounds to develop the skills and insights essential for management personnel in business and not-for-profit organizations. Built into the program is the flexibility to meet the needs of students with backgrounds in engineering, the sciences, and the humanities, as well as those with undergraduate training in administration.

The learning environment blends work in structured situations where students gain command of analytical techniques together with work in comprehensive unstructured applications which sharpen student’s resourcefulness in sorting out complex problems and selecting optimal courses of action. Emphasis throughout the program is on problem-solving skills.

Courses are scheduled to accommodate students already employed who are seeking an opportunity to upgrade and broaden their professional interests as well as students wishing to pursue full-time studies. The program is designed so that part-time students who can attend classes only in the evening can complete the program in a reasonable period. Full-time students may complete the program in a year.

Students with a background in business administration complete a total of 48 credit hours of 500 and 600 level courses designated by the M.B.A. adviser. Typically, these 48 hours include:

- Accounting Theory and Practice
- Statistical Theory and Methods
- Decision Theory
- Organizational Theory
- Production and Control
- Financial Management
- Managerial Economics
- Business Conditions Analysis and Capital Budgeting
- Marketing Management
- Personnel, Industrial, Labor, and Human Relations
- Integrative Seminars and Laboratories
- Possibilities for Individual or Group Projects in the Real World
- Electives

For students without a background in business administration, certain additional courses will be needed to remedy deficiencies. The specific program for each student is individually planned in consultation with the M.B.A. adviser. In developing these plans, appropriate weight is given to the student’s experience, scores on proficiency examinations or equivalency examinations, and studies in other institutions.

The M.B.A. program permits a student to become a generalist, but those who wish to do so may specialize to a limited extent by electing an emphasis in Finance or in Marketing. These program variations will allow the student to concentrate on more specific objectives while still acquiring the broad gauge training the M.B.A. program is designed to provide.

M.B.A. with Emphasis in Finance

Students seeking an emphasis in finance should enroll in the Master of Business Administration program. Students take the required courses indicated by the general M.B.A. program. The elective hours will be taken in the area of finance, or a combination of finance and other approved courses. Although a thesis is not required, graduate research projects may be incorporated into the student’s program.

M.B.A. with Emphasis in Marketing

Students desiring a marketing emphasis should enroll in the M.B.A. program, and will fulfill all the stated requirements of the M.B.A. The elective hours will be taken in marketing. Elective course studies in consumer behavior, advanced marketing research, physical distribution systems, marketing channels, and promotion. An independent research project can serve as part of the course work in the marketing emphasis option. No thesis is required.

ECONOMICS (ECN)

Economics is one of the vital disciplines investigating the complex problems and relationships in modern society. Indeed, the very breadth of economics has led to major areas within the discipline, including labor economics, international economics, urban and regional economics, monetary economics, public finance, industrial organization, comparative economic systems, and the like. Students are grounded in economic theory and economic statistics to facilitate the investigation of the problems of human behavior, decision-making, and organizational effectiveness in these problem areas. Students majoring in economics are encouraged to supplement their programs with courses in other business and social science subjects. Management, finance, marketing, accounting, political science, psychology, sociology, and others contribute greatly to an enriched plan of study. A student may plan the best possible program to help him achieve his particular career objectives. Similarly, a variety of courses in economics are designed to permit students majoring in other disciplines to acquire the skills and insights provided in economics.

Requirements for the B.A. Degree:

A student may earn a Bachelor of Arts degree with a major in Economics by completing satisfactorily a minimum of 48 credits in Economics. Normally, these 48 credits include:

- ECN 201 (4)
- ECN 202 (4)
- ECN 301 (5)
- ECN 323 (5)
- ECN 331 (5)
- ECN 401 (5)
- ECN 231 (3)

In addition to this core, a student is encouraged to select 300 level courses in several of the applied areas during their junior year. The remaining economics electives may be selected from those 300 and 400 level courses that provide the type of program that best suit the student’s interests and objectives.

A student in the College of Business Administration also must satisfy the other Business Core requirements detailed on page 45.

Students interested in majoring in economics are encouraged to contact the departmental advisers for more information about the program. In addition, the department maintains a file describing the varied career opportunities for economists in business, government and education.

Requirements for the M.A. Degree:

Applicants should submit results of the Graduate Record Examination Aptitude Test and meet other University requirements specified on pages 39-42. The primary requisites for success in graduate study are strong motivation, aptitude, and basic intellectual ability. An undergraduate major in economics is not required but a sound background in economic theory, mathematics, and statistics will permit completion of the master’s program in the normal time span of one year.

The Master of Arts in Economics permits students to select one of two general programs. The first emphasizes terminal professional training to prepare the student for decision making and problem solving roles in business, governmental agencies, and other organizations. The second program prepares the student for doctoral work in Economics in other recognized institutions.

Both programs involve preparation in economic theory and quantitative methods. The student in the professional program then supplements these skills with an emphasis on courses in applied economics and additional quantitative methods selected in accordance with his career objectives. The student who is preparing for doctoral studies normally takes additional courses in economic theory, mathematics and statistics. Research and the writing of a thesis may be incorporated into the program of study. The learning environment blends work in structured situations where students gain command of analytical techniques together with work in comprehensive unstructured applications which sharpen student’s resourcefulness in sorting out complex problems and selecting optimal courses of action. Emphasis throughout the program is on problem-solving skills.

Courses are scheduled to accommodate students already employed who are seeking an opportunity to upgrade and broaden their professional interests as well as students wishing to pursue full-time studies. The program is designed so that part-time students who can attend classes only in the evening can complete the program in a reasonable period. Full-time students may complete the program in a year.

Students with a background in business administration complete a total of 48 credit hours of 500 and 600 level courses designated by the M.B.A. adviser. Typically, these 48 hours include:

- Accounting Theory and Practice
- Statistical Theory and Methods
- Decision Theory
- Organizational Theory
- Production and Control
- Financial Management
- Managerial Economics
- Business Conditions Analysis and Capital Budgeting
- Marketing Management
- Personnel, Industrial, Labor, and Human Relations
- Integrative Seminars and Laboratories
- Possibilities for Individual or Group Projects in the Real World
- Electives

For students without a background in business administration, certain additional courses will be needed to remedy deficiencies. The specific program for each student is individually planned in consultation with the M.B.A. adviser. In developing these plans, appropriate weight is given to the student’s experience, scores on proficiency examinations or equivalency examinations, and studies in other institutions.

The M.B.A. program permits a student to become a generalist, but those who wish to do so may specialize to a limited extent by electing an emphasis in Finance or in Marketing. These program variations will allow the student to concentrate on more specific objectives while still acquiring the broad gauge training the M.B.A. program is designed to provide.

M.B.A. with Emphasis in Finance

Students seeking an emphasis in finance should enroll in the Master of Business Administration program. Students take the required courses indicated by the general M.B.A. program. The elective hours will be taken in the area of finance, or a combination of finance and other approved courses. Although a thesis is not required, graduate research projects may be incorporated into the student’s program.

M.B.A. with Emphasis in Marketing

Students desiring a marketing emphasis should enroll in the M.B.A. program, and will fulfill all the stated requirements of the M.B.A. The elective hours will be taken in marketing. Elective course studies in consumer behavior, advanced marketing research, physical distribution systems, marketing channels, and promotion. An independent research project can serve as part of the course work in the marketing emphasis option. No thesis is required.

ECONOMICS (ECN)

Economics is one of the vital disciplines investigating the complex problems and relationships in modern society. Indeed, the very breadth of economics has led to major areas within the discipline, including labor economics, international economics, urban and regional economics, monetary economics, public finance, industrial organization, comparative economic systems, and the like. Students are grounded in economic theory and economic statistics to facilitate the investigation of the problems of human behavior, decision-making, and organizational effectiveness in these problem areas. Students majoring in economics are encouraged to supplement their programs with courses in other business and social science subjects. Management, finance, marketing, accounting, political science, psychology, sociology, and others contribute greatly to an enriched plan of study. A student may plan the best possible program to help him achieve his particular career objectives. Similarly, a variety of courses in economics are designed to permit students majoring in other disciplines to acquire the skills and insights provided in economics.

Requirements for the B.A. Degree:

A student may earn a Bachelor of Arts degree with a major in Economics by completing satisfactorily a minimum of 48 credits in Economics. Normally, these 48 credits include:

- ECN 201 (4)
- ECN 202 (4)
- ECN 301 (5)
- ECN 323 (5)
- ECN 331 (5)
- ECN 401 (5)

In addition to this core, a student is encouraged to select 300 level courses in several of the applied areas during their junior year. The remaining economics electives may be selected from those 300 and 400 level courses that provide the type of program that best suit the student’s interests and objectives.

A student in the College of Business Administration also must satisfy the other Business Core requirements detailed on page 45.

Students interested in majoring in economics are encouraged to contact the departmental advisers for more information about the program. In addition, the department maintains a file describing the varied career opportunities for economists in business, government and education.

Requirements for the M.A. Degree:

Applicants should submit results of the Graduate Record Examination Aptitude Test and meet other University requirements specified on pages 39-42. The primary requisites for success in graduate study are strong motivation, aptitude, and basic intellectual ability. An undergraduate major in economics is not required but a sound background in economic theory, mathematics, and statistics will permit completion of the master’s program in the normal time span of one year.

The Master of Arts in Economics permits students to select one of two general programs. The first emphasizes terminal professional training to prepare the student for decision making and problem solving roles in business, governmental agencies, and other organizations. The second program prepares the student for doctoral work in Economics in other recognized institutions.

Both programs involve preparation in economic theory and quantitative methods. The student in the professional program then supplements these skills with an emphasis on courses in applied economics and additional quantitative methods selected in accordance with his career objectives. The student who is preparing for doctoral studies normally takes additional courses in economic theory, mathematics and statistics. Research and the writing of a thesis may be incorporated into the program of study.
a student selecting this option. The nature of the thesis subject indicates his area of specialization and interest. The Economics department participates in the Junior College Teaching Program jointly with the College of Education as outlined on page 64.

The student must complete 48 hours of graduate credit selected in consultation with the adviser in the Economics department. At least 35 of these hours must be in Economics.

**FINANCE (FIN)**

Requirements for the B.A. Degree:

Students in this program must complete 20-27 credits in upper level Finance, 53 hours of Business Core, and 14-27 hours of Business electives.

*Required Finance Courses (20-27 cr. hrs.)*

FIN 321 (4)
FIN 411 (4)
FIN 421 (4)

Plus 8-15 additional credits of upper level Finance courses.

**Finance Pre-Law:**

A minimum of 20 hours of Finance courses as listed above with 14-27 hours of Business electives chosen with consent of adviser to specifically meet the needs of the student.

**M.B.A. With Emphasis in Finance**

Students seeking a graduate education with a concentration in the field of finance should enroll in the Master of Business Administration program. Students take the 39 credit hours of core courses required by the general M.B.A. program. The 9 elective hours will be taken in the area of finance, or a combination of finance and other approved courses. A maximum of 15 hours of finance is available since students will take FIN 601 and 602 as part of the graduate core. Although thesis is not required, graduate research projects are possible under FIN 683. As far as possible candidates for an M.B.A. with an emphasis in finance should take their integrative seminar (GBA 615) in the special section designated for their emphasis.

**MANAGEMENT (MAN)**

The program provided by the Management faculty integrates knowledge in behavioral and social science, industrial relations, and quantitative and computer technology in developing an understanding of organizational theory and research. The aim is to build competence in the practice of managing groups and organizations.

To accomplish this goal, the department offers (a) a mix of lectures, management laboratories, independent research, and team activities in many courses, (b) a flexible curriculum which permits students to select a program of courses most suitable to their needs, and (c) the option of selecting more advanced courses within each area.

To assist students in making realistic course selections, descriptive material for each course is listed in the catalogue. In addition to the catalogue descriptions, more specific information is available in the undergraduate advising office, College of Business Administration. Listed descriptions and individual advising describes the background necessary for each course.

**Requirements for the B.A. Degree:**

Management students must take 27 credits in upper level Management, 53 credits of Business Core, 7-20 credits of Business electives.

It is strongly recommended that students include courses in Calculus, Speech, Psychology, Sociology, and Political Science in their General electives.

**Required Management Courses (27 credit hours)**

Students are required to take:

(a) at least one course from each of the four course areas listed below:

1. **Area 1 — Organizational Behavior:** MAN 322, MAN 431, MAN 451, MAN 453.
2. **Area 2 — Computer and Quantitative Procedures:** MAN 312, MAN 421, MAN 471, MAN 472, MAN 473.
3. **Area 3 — Industrial Relations:** MAN 332, MAN 461, MAN 463, MAN 465.
4. **Area 4 — Integrative Policy Course:** MAN 499

(b) Additional upper level Management courses to meet the requirements for graduation.

**Requirements for the Master of Science Degree in Management:**

The Master of Science program in Management 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 proficiency, 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 credit hours in coursework, and satisfaction, by enrollment or waiver, of the following requirements:

1. Course work in administrative studies outside the field of Management, consisting of:
   - ACC 601 (3)
   - FIN 601 (3)
   - GBA 603 (3)
   - GBA 605 (3)
   - ECN 607 (3)

2. Ten graduate courses in Management, consisting of:
   - MAN 601 (3)
   - MAN 607 (3)
   - MAN 615 (3)
   - MAN 699 (6)
   - 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.

**MARKETING (MKT)**

Requirements for the B.A. Degree:

 Majors in Marketing are required to take 27 credits in upper level marketing, 53 credits in Business Core, and 7-20 credits in Business electives. It is recommended that students choose general electives in Calculus, Mass Communications, Psychology, Sociology, and Speech.

*Required Marketing Courses (18 credit hours)*

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKT 312</td>
<td>(3)</td>
</tr>
<tr>
<td>MKT 315</td>
<td>(4)</td>
</tr>
<tr>
<td>MKT 411</td>
<td>(4)</td>
</tr>
<tr>
<td>MKT 413</td>
<td>(3)</td>
</tr>
<tr>
<td>MKT 419</td>
<td>(4)</td>
</tr>
</tbody>
</table>

Plus 9 credits from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKT 311</td>
<td>(3)</td>
</tr>
<tr>
<td>MKT 316</td>
<td>(3)</td>
</tr>
<tr>
<td>MKT 401</td>
<td>(3)</td>
</tr>
<tr>
<td>MKT 403</td>
<td>(3)</td>
</tr>
<tr>
<td>MKT 405</td>
<td>(3)</td>
</tr>
<tr>
<td>MKT 407</td>
<td>(3)</td>
</tr>
<tr>
<td>MKT 409</td>
<td>(3)</td>
</tr>
<tr>
<td>MKT 414</td>
<td>(3)</td>
</tr>
<tr>
<td>MKT 417</td>
<td>(3)</td>
</tr>
<tr>
<td>MKT 489</td>
<td>(3)</td>
</tr>
</tbody>
</table>

Any substitutions for the above courses must be approved in writing by the adviser and the chairman of the Marketing Department.
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.

BACCALAUREATE LEVEL DEGREE PROGRAMS

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

Admission to the College

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 education 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 90 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 Distribution requirements for Education majors. Provisional admission may be granted if no more than three individual General Distribution courses remain to be taken, provided Freshman English has been completed.
3. Completion of a minimum of 90 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 admission committee. Acceptance of the application of the student will be determined by the following:

*Deadline: The student should initiate his application with the College of Education Central Advising Office (EDU 309) no later than the second week of the quarter in which he is eligible for admission.

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 (excluding PEB) 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). 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 credit hours including the following: General Distribution .......................................................... 60 credit hours Professional Education Core .................................................. 36-44 credit hours Teaching Specialization .................................................. 41 to 73 credit 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 the 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.

Programs Leading to the Baccalaureate Degree

The College of Education has programs leading to the Bachelor of Arts degree in the following fields:

- Art Education (EDA)
- Botany Education (BOE)
- Business and Office Education (VBU)
- Chemistry Education (CHE)
- Classics and Ancient Studies Education (CLE)*
- Distributive Education (VDE)
- Elementary-Early Childhood Education (EEC)
- Elementary Education (EDE)
- English Education (ENE)
- Exceptional Child Education
  - Emotionally Disturbed (EDM)
  - Mental Retardation (MRD)
  - Specific Learning Disabilities (SLD)
- Health Education (HEN)
- Humanities Education (HUE)
- Industrial-Technical Education (VIT)
- Library-Audiovisual Education (EDL)
- Mass Communications-English Education (MCE)

- Mathematics Education (MAE)
- Modern Foreign Language Education (MOE)*
- Music Education (EDM)
- Physical Education (EDP)
- Physics Education (PHE)
- Science Education (SCE)
- Social Science Education (SSE)
- Speech Communication-English Education (SEE)
- Zoology Education (ZOE)*

*Latin-English Education or Latin-Modern Foreign Language Education.

College of Education Student Organizations and Activities

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 316M. The CEA is responsible for helping organize new College of Education organizations approved by the Student Affairs Committee. They also aid the organizations at the level of financial aid, 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 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 opportunities 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 include 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.

**Physical Education Association (PEA)**

The Physical Education Association (PEA) is open to all students enrolled in the Physical Education Program. Social and professional meetings are conducted throughout the year to promote interaction within the organization.

**Student Guidance Organization (SGO)**

The Student Guidance Organization is a Guidance Organization for graduate students presently enrolled in the Guidance Program. Social and professional meetings are conducted throughout the year. Members also participate in annual retreats and attend district and state meetings.

**Mathematics Education Clinic**

The Mathematics Education Clinic is mission-oriented in a broad sense in that it is primarily concerned with children and youth who evidence learning problems in mathematics. However, an important purpose of the clinic is one of obtaining hypotheses that can be studied to obtain generalizable professional knowledge to improve the teaching and learning of mathematics. Clinical, correlational, normative, and experimental approaches are used in the study of the etiology and symptomatology of mathematical learning disabilities. General models and specific teaching strategies are provided the classroom teacher and the student-clinician for carrying out effective diagnostic and prescriptive programs.

Close professional relations are maintained between the Mathematics Education faculty and the appropriate faculties in the College of Education whose interests and professional skills are related to the work of the Clinic. The physical facilities of the Clinic, presently located in the Education Building, make it possible for University students to work with individuals and small groups whose learning disabilities seem to be primarily cognitive. Referrals may be made by principals, teachers, and/or parents by calling 974-2100 ext. 217.

Courses available for teachers and/or students focusing on diagnostic and prescriptive procedures in mathematics appropriate for elementary school children are EDE 515 — *Diagnosis and Treatment of Learning Disabilities in School Mathematics* (4 hrs.), and EDE 516 — *Practicum in Diagnosis and Treatment of Children's Learning Disabilities in Mathematics* (4 hrs.)
Teacher Education Programs and Curricula

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

1. General Distribution Requirements (60 cr. hrs.) The five areas of General Distribution and the specific requirements are as follows:

   **Area I English Composition:** ENG 101-102-103.
   **Area II Humanities/Fine Arts:** A minimum of eight hours from at least two of the following prefixes: AMS, ART, CLS, DAN, ENG (excluding 100, 101-103) HUM, HI, MOL, FRE, GER, GRE, HEB, ITA, POR, ROM, RUS, SPA, MUS, PHI, (excluding 303), REL, SPE, TAR, ARA.
   **Area III Mathematics:** MTH 331-332-333 for any program requiring EDE 415; a minimum of eight hours from any MTH, ESC, ECN 231, and ECN 331, PHI 303, SSI 301 for all other programs.
   **Area IV Natural Sciences:** A minimum of eight hours from the following prefixes: AST, BIO, BOT, CHM, GLY, NAS, OGY, PHY, PHS, ZOO.
   **Area V Social and Behavioral Sciences:** A minimum of 16 hours is required in Area V as specified below

   I. Behavioral Science
   a) For all programs
      SSI 201 or PSY 201 AND SSI 202 or SOC 201
   b) For all other programs a minimum of eight hours from the following prefixes: AFA.

   II. Social Science
   a) For programs requiring EDE 419, SSI 100, SSI 300 or HTY 211-212
   b) For all other programs a minimum of eight hours from the following prefixes: AFA.

2. Professional Education Core (36-44 credit hours)

   The required courses in the professional education core are as follows:
   - EDF 305 Human Development and Learning (4)
   - EDF 307 Social Foundations of Education (4)
   - EDC 401 Curriculum & Instruction (5)
   - Methods Course(s) (4-12)
   - Internship & Seminar (15)
   - Education Elective (not required with every major) (4)

3. Teaching Specialization Preparation (41-73 credit hours)

   Course requirements in the area of teaching specialization vary according to subject field of specialization.

   **Note:** State Board of Education regulation (6A-5.25) revised July 10, 1973, was amended to require that all elementary and secondary approved programs of teacher education must include information on teaching reading skills. For elementary majors, additional competencies over and above those taught in EDE 409 are required. This applies to all students graduating after August, 1974.

   Please check with your adviser with respect to the ways and means of meeting these competencies.

---

**ELEMENTARY EDUCATION CERTIFICATION PROGRAMS**

<table>
<thead>
<tr>
<th>EDE 409</th>
<th>(5)</th>
<th>EDE 419</th>
<th>(5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDE 411</td>
<td>(4)</td>
<td>EDE 421</td>
<td>(4)</td>
</tr>
<tr>
<td>EDE 413</td>
<td>(4)</td>
<td>EDE 423</td>
<td>(2)</td>
</tr>
<tr>
<td>EDE 415</td>
<td>(5)</td>
<td>EDE 424</td>
<td>(3)</td>
</tr>
<tr>
<td>EDE 417</td>
<td>(5)</td>
<td>EDE 425</td>
<td>(4)</td>
</tr>
</tbody>
</table>

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 junior high subject area.

---

**ELEMENTARY-EARLY CHILDHOOD (EEC)**

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 50 hours of course work as follows:

<table>
<thead>
<tr>
<th>EDE 409</th>
<th>(5)</th>
<th>EDE 423</th>
<th>(2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDE 413</td>
<td>(4)</td>
<td>EDE 424</td>
<td>(3)</td>
</tr>
<tr>
<td>EDE 415</td>
<td>(5)</td>
<td>EDE 425</td>
<td>(4)</td>
</tr>
<tr>
<td>EDE 417</td>
<td>(5)</td>
<td>EDE 426</td>
<td>(4)</td>
</tr>
<tr>
<td>EDE 419</td>
<td>(5)</td>
<td>EDE 529</td>
<td>(5)</td>
</tr>
<tr>
<td>EDE 421</td>
<td>(4)</td>
<td>EDE 531</td>
<td>(5)</td>
</tr>
</tbody>
</table>

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**ELEMENTARY-MIDDLE SCHOOL EDUCATION**

For the student with a special interest in youngsters in the middle grades, courses are available which lead to both elementary and middle school certification. The courses are grouped in two segments: (1) Elementary Education — consisting of 42 hours of course work in elementary education,
and (2) Middle School Teaching — consisting of between 28 and 32 hours of liberal arts and education courses related to one of the following special areas: Reading-language arts education, Science education, Social science education, Mathematics education. Further information can be obtained by contacting advisers in the respective areas.

**ELEMENTARY-EARLY INTERVENTION (N-3)**

This emphasis is designed for regular classroom teachers to become acquainted with the varying forms and degrees of behavioral manifestations and learning performance of young children in a pluralistic society.

The course of study includes 1) the developmental theories and their applicability with young children, 2) the environmental factors as they relate to developmental process, and 3) the developmental psycho-education appraisal of young children. An interrelated course of study is planned for advanced training to provide skills and competencies in clinical teaching. It includes methods such as systematic observation, developmental assessment, prescriptive teaching and individualized instruction for the prevention of learning and behavior problems. Requirements include EDS 541, EDS 649, EDE 527, EDE 529, EDC 681 (1), EDC 681 (2), EDC 681 (3), EDC 480, EDC 585, and EDE 515. Additional work in related areas may be planned with the adviser.

**EXCEPTIONAL CHILD EDUCATION**

The Exceptional Child Education Baccalaureate Level Degree Program offers students three tracks leading to Rank II Certification in that specific area of emphasis.

**Emotionally Disturbed (EMD)**

A two-year program (six quarters) leading to certification in Emotionally Disturbed and Elementary Education. In addition to the practice teaching required in Elementary Education, a continuous practicum is provided with emotionally disturbed children.

The planned program includes:
- **Junior Year**: EDF 305 (4), EDS 311 (4), CLY 201 (3), EDS 439 (variable credit), EDF 307 (4), EDC 401 (5) and EDS 431 (4).
- **Senior Year**: EDS 411 (4), EDS 432 (5), EDS 439 (variable credit), EDC 498 (3) and EDC 499 (12).

**Required Elementary Courses**: EDE 409 (5), EDE 415 (5), EDE 413 (4), or EDL 419 (4), EDE 417 (5), EDE 419 (5), EDE 421 (4), EDE 425 (2), EDE 424 (3), and EDE 425 (4).

**Mental Retardation (MRD)**

Students in the Mental Retardation Program are prepared as teachers of the Mentally Retarded (both educable and trainable). 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 Mental Retardation (K-12).

- **Junior year**: EDS 311 (4), CLY 201 (3), EDF 305 (4), EDF 379 (4), EDS 322 (4), EDS 329 (6), EDS 424 (4).

**Required Elementary Courses**: EDE 409 (5), EDE 413 (4), or EDL 514 (4), EDE 515 (4), EDE 531 (4), EDE 425 (4) or EDV 207 (4), EDE 415 (5)

**Specific Learning Disabilities (SLD)**

The planned program for students majoring in Specific Learning Disabilities requires six quarters of course work. Completion of this program will enable students to be certified in the area of Specific Learning Disabilities (K-12).

- **Junior Year**: EDS 311 (4), CLY 201 (3), EDF 305 (4), EDS 514 (4), EDF 379 (4), EDS 581 (4), EDS 389 (6), EDS 550 (4).

**Required Elementary Courses**: EDE 409 (5), EDE 415 (5), EDE 515 (4), EDE 425 (4), EDE 531 (4), EDR 530 (4)

**KINDERGARTEN THROUGH TWELFTH GRADE CERTIFICATION PROGRAMS**

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

**ART EDUCATION (EDA)**

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 (25 Credit hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDA 308</td>
<td>4</td>
</tr>
<tr>
<td>EDA 310</td>
<td>3</td>
</tr>
<tr>
<td>EDA 412</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDA 410</td>
<td>5</td>
</tr>
<tr>
<td>EDA 408</td>
<td>2</td>
</tr>
<tr>
<td>EDA 450</td>
<td>4</td>
</tr>
</tbody>
</table>

In these courses students will have the opportunity to work at the elementary school and high school levels.

**Specialization (52 cr. hrs.)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 201</td>
<td>4</td>
</tr>
<tr>
<td>ART 301</td>
<td>2</td>
</tr>
<tr>
<td>ART 202</td>
<td>4</td>
</tr>
</tbody>
</table>
HEALTH EDUCATION (HEN)

The two-year Health Education program is designed to prepare health educators for the public schools through combined course work and field work/internship in public schools and community health programs each quarter. This program is a competency based curriculum with an S (Satisfactory) / U (Unsatisfactory) grading system. Prerequisites for entering the program include admission to the College of Education, a survey course in health science, and an interview for program guidance. The following are courses required in the Health Education Program (61 hours):

| EDP 255 (3) | HEN 411 (4) |
| HEN 310 (5) | HEN 412 (5) |
| HEN 311 (4) | HEN 421 (4) |
| HEN 321 (4) | HEN 422 (5) |
| HEN 322 (5) | HEN 423 (2) |
| HEN 331 (4) | HEN 431 (4) |
| HEN 332 (5) | HEN 432 (5) |
| HEN 333 (2) | |

LIBRARY-AUDIOVISUAL EDUCATION (SCHOOL MEDIA SPECIALIST) (EDL)

The program for school media specialists includes the State of Florida requirements for Rank III Certification K-12. All students take the Education Professional Core. The methods course is EDL 440 (4), which is to be taken concomitantly with a pre-internship EDL 480 (4). Students receive practice in both elementary and secondary school media centers. Other required courses in the major are (39 cr. hrs.):

| EDL 400 (3) | EDL 513 (4) |
| EDL 410 (3) | EDL 514 (4) |
| EDL 412 (5) | EDL 515 (5) |
| EDL 415 (2) | EDL 519 (5) |
| EDL 419 (4) | EDL 523 (4) |

Courses required in the other areas are EDE 411 and either EDE 409 or EDR 509. The student is urged to confer with his Library-Audiovisual adviser as near to the time of his entrance into the University as possible so that lower level electives correspond with his needs in the program.

MUSIC EDUCATION (EDM)

A. Instrumental Specialization (97 cr. Hrs.)

Music Education courses (24 cr. hrs.)

| EDM 370 (6) | EDM 432 (5) |
| EDM 390 (3) | EDM 433 (5) |
| EDM 431 (5) | |

Music courses (73 cr. hrs.)

| MUS 201, 202, 203 (9) |
| MUS 301, 302, 303 (9) |
| MUS 401, 402, 403 (6) |
| MUS 207 (8) |
| MUS 204, 304, 404, 504* (33) |
| Theatre Arts (2) |
| Art (3) |
| Dance (3) |
| Performing Ensemble (minimum of one per quarter with applied music) |
| Piano proficiency requirement |
| Graduating recital |

B. Vocal Specialization (86 cr. hrs.)

Music Education courses (21 cr. hrs.)

| EDM 380 (6) | EDM 437 (5) |
| EDM 435 (5) | EDM 439 (5) |

Music courses (66 cr. hrs.)

| MUS 201, 202, 203 (9) |
| MUS 301, 302, 303 (9) |
| MUS 401, 402, 403 (6) |
| MUS 204, 304, 404, 504* (33) |
| Theatre Arts (2) |
| Art (3) |
| Dance (3) |
| Performing ensemble (minimum of one per quarter of applied music) |
| Piano proficiency requirement |
| Graduating recital |

* MUS 504, minimum of 6 hours.

All students seeking a degree in music education are required to take a placement examination in music theory-history and to pass an audition in their respective performance area. Students must obtain the dates for these examinations from the Music Office; completion of the examinations is required before registration in music courses can be permitted.

Special requirements for all music education majors: successful completion of the piano proficiency requirement as defined by the music and music education faculties before admittance to upper level; 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).

PHYSICAL EDUCATION (EDP)

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 (Fall) 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 EDM 331, EDM 421, and EDM 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 (68 cr. hrs.):

EDP 255 (3)  EDP 365 (3)
EDP 311 (5)  EDP 411 (5)
EDP 312 (6)  EDP 412 (4)
EDP 314 (2)  EDP 421 (5)
EDP 321 (5)  EDP 422 (4)
EDP 322 (6)  EDP 431 (5)
EDP 331 (5)  EDP 432 (4)
EDP 332 (6)  

SECONDARY EDUCATION CERTIFICATION PROGRAMS

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.

CLASSICS AND ANCIENT STUDIES (CLE)

Latin-English Education:
Specialization Requirements (83 cr. hrs.)

Latin (39 cr. hrs.)  English (44 cr. hrs.)

<table>
<thead>
<tr>
<th>Latin (39 cr. hrs.)</th>
<th></th>
<th>English (44 cr. hrs.)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CLS 301 (3)</td>
<td>ENG 300 (5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLS 302 (3)</td>
<td>ENG 301 (5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLS 303 (3)</td>
<td>ENG 302 (5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLS 371 (4)</td>
<td>ENG 310 (5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLS 401 (3)</td>
<td>ENG 475 (5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLS 402 (3)</td>
<td>SPE 201 (5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLS 403 (3)</td>
<td>One of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLS 411 (3)</td>
<td>ENG 316 (5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLS 412 (3)</td>
<td>ENG 317 (5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLS 413 (3)</td>
<td>ENG 332 (5)</td>
<td></td>
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</tr>
<tr>
<td>CLS 517 (4)</td>
<td>ENG 435 (5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLS 571 (4)</td>
<td>ENG 436 (5)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

One of the following:
- ENG 316 (5)
- ENG 317 (5)
- ENG 332 (5)
- ENG 435 (5)
- English (44 cr. hrs.)

EDP 255 (3)  EDP 365 (3)
EDP 311 (5)  EDP 411 (5)
EDP 312 (6)  EDP 412 (4)
EDP 314 (2)  EDP 421 (5)
EDP 321 (5)  EDP 422 (4)
EDP 322 (6)  EDP 431 (5)
EDP 331 (5)  EDP 432 (4)

If the student's oral ability in the modern foreign language is weak, 203 will be required before 303 can be taken.

Two special methods courses (EDX 449 and EDX 465) are included in the professional education sequence.

ENGLISH EDUCATION (ENE)

Specialization Requirements (68-70 cr. hrs.)

<table>
<thead>
<tr>
<th>English (44 cr. hrs.)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CLS 301 (3)</td>
<td>ENG 300 (5)</td>
</tr>
<tr>
<td>CLS 302 (3)</td>
<td>ENG 301 (5)</td>
</tr>
<tr>
<td>CLS 303 (3)</td>
<td>ENG 310 (5)</td>
</tr>
<tr>
<td>CLS 371 (4)</td>
<td>ENG 450 (5)</td>
</tr>
<tr>
<td>CLS 401 (3)</td>
<td>ENG 475 (5)</td>
</tr>
<tr>
<td>CLS 402 (3)</td>
<td>SPE 201 (5)</td>
</tr>
<tr>
<td>CLS 403 (3)</td>
<td>SPE 321 (5)</td>
</tr>
<tr>
<td>CLS 517 (4)</td>
<td>Plus one 400-level English elective (5)</td>
</tr>
</tbody>
</table>

One of the following:
- ENG 316 (5)
- ENG 317 (5)
- ENG 332 (5)
- ENG 435 (5)
- English (44 cr. hrs.)

EDP 255 (3)  EDP 365 (3)
EDP 311 (5)  EDP 411 (5)
EDP 312 (6)  EDP 412 (4)
EDP 314 (2)  EDP 421 (5)
EDP 321 (5)  EDP 422 (4)
EDP 322 (6)  EDP 431 (5)
EDP 331 (5)  EDP 432 (4)

Also, one elective from one of the following areas: English, Speech, Communication, Mass Communications, Theatre Arts, Language-Literature Interdisciplinary, Philosophy, Classics and Ancient Studies, Education, or American Studies: (4)

In addition, one of the following courses is included in the professional education sequence:

EDL 519 (5)  EDR 509 (4)
EDT 531 (4)

Latin-American Foreign Language Education:
Specialization Requirements (66 cr. hrs.)

<table>
<thead>
<tr>
<th>Modern foreign language</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CLS 301 (3)</td>
<td>CLS 403 (3)</td>
</tr>
<tr>
<td>CLS 302 (3)</td>
<td>CLS 411 (3)</td>
</tr>
<tr>
<td>CLS 303 (3)</td>
<td>CLS 412 (3)</td>
</tr>
<tr>
<td>CLS 371 (4)</td>
<td>CLS 413 (3)</td>
</tr>
<tr>
<td>CLS 401 (3)</td>
<td>CLS 517 (4)</td>
</tr>
<tr>
<td>CLS 402 (3)</td>
<td>CLS 571 (4)</td>
</tr>
</tbody>
</table>

Modern foreign language requires 25 credit hours beyond introductory courses. Modern foreign language course requirements are (27 cr. hrs.):

<table>
<thead>
<tr>
<th>Language</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>301</td>
<td>(4)</td>
</tr>
<tr>
<td>303</td>
<td>(3)</td>
</tr>
<tr>
<td>305</td>
<td>(4)</td>
</tr>
<tr>
<td>401</td>
<td>(4)</td>
</tr>
</tbody>
</table>
MASS COMMUNICATIONS—
ENGLISH EDUCATION (MCE)

Specialization Requirements (81 cr. hrs.):

Mass Communications
(22 cr. hrs.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 300</td>
<td>3</td>
</tr>
<tr>
<td>COM 301</td>
<td>4</td>
</tr>
<tr>
<td>COM 330</td>
<td>4</td>
</tr>
<tr>
<td>COM 351</td>
<td>5</td>
</tr>
<tr>
<td>COM 491</td>
<td>4</td>
</tr>
</tbody>
</table>

Two COM electives chosen after consultation with adviser.

English (49 cr. hrs.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 300</td>
<td>5</td>
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<tr>
<td>ENG 301</td>
<td>5</td>
</tr>
<tr>
<td>ENG 302</td>
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<td>ENG 310</td>
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<td>ENG 450</td>
<td>5</td>
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<tr>
<td>ENG 475</td>
<td>5</td>
</tr>
<tr>
<td>SPE 201</td>
<td>5</td>
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<tr>
<td>SPE 321</td>
<td>5</td>
</tr>
</tbody>
</table>

One of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 316</td>
<td>5</td>
</tr>
<tr>
<td>ENG 317</td>
<td>5</td>
</tr>
<tr>
<td>ENG 332</td>
<td>5</td>
</tr>
<tr>
<td>ENG 435</td>
<td>5</td>
</tr>
<tr>
<td>ENG 436</td>
<td>5</td>
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<tr>
<td>ENG 437</td>
<td>5</td>
</tr>
<tr>
<td>ENG 438</td>
<td>5</td>
</tr>
<tr>
<td>ENG 441</td>
<td>5</td>
</tr>
<tr>
<td>ENG 442</td>
<td>5</td>
</tr>
</tbody>
</table>

Two special methods courses (EDT 447 and EDT 463) are included in the professional education sequence.

MODERN FOREIGN LANGUAGES
(MOE)

Foreign Language-English Education:

Specialization Requirements (80 cr. hrs.) One of the following:

English (37 cr. hrs.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 300</td>
<td>5</td>
</tr>
<tr>
<td>ENG 301</td>
<td>5</td>
</tr>
<tr>
<td>ENG 302</td>
<td>5</td>
</tr>
<tr>
<td>ENG 310</td>
<td>5</td>
</tr>
<tr>
<td>ENG 350</td>
<td>5</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>ENG 351</td>
<td>5</td>
</tr>
<tr>
<td>ENG 475</td>
<td>5</td>
</tr>
<tr>
<td>SPE 201</td>
<td>5</td>
</tr>
</tbody>
</table>

One of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 316</td>
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</tr>
<tr>
<td>ENG 317</td>
<td>5</td>
</tr>
<tr>
<td>ENG 332</td>
<td>5</td>
</tr>
<tr>
<td>ENG 435</td>
<td>5</td>
</tr>
<tr>
<td>ENG 438</td>
<td>5</td>
</tr>
<tr>
<td>ENG 441</td>
<td>5</td>
</tr>
<tr>
<td>ENG 442</td>
<td>5</td>
</tr>
</tbody>
</table>

If an elective is needed, SPE 321 is recommended. Foreign Language requires a minimum of 36 credit hours beyond intermediate courses. Foreign language course requirements are:

Plus a minimum of 11 additional hours of advanced courses in the foreign language:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>( -- ) 301</td>
<td>4</td>
</tr>
<tr>
<td>( -- ) 303</td>
<td>3</td>
</tr>
<tr>
<td>( -- ) 305</td>
<td>4</td>
</tr>
<tr>
<td>( -- ) 401</td>
<td>4</td>
</tr>
<tr>
<td>( -- ) 403</td>
<td>2</td>
</tr>
<tr>
<td>( -- ) 405</td>
<td>4</td>
</tr>
<tr>
<td>( -- ) 406</td>
<td>4</td>
</tr>
</tbody>
</table>

If the student’s oral ability is weak in the foreign language, 203 will be required before 303 can be taken. Student and adviser will select the additional foreign language courses to total a minimum of 36 credit hours in the foreign language. ROM 517 and 518 may be among the selected courses.

Two special methods courses (EDT 447 and EDX 449) are included in the professional education sequence.

Two Foreign Languages:

Specialization Requirements (60 cr. hrs)

Beginning and intermediate foreign language requirements (or equivalents) must be completed. In the major language (French, German, Italian, Russian, or Spanish), the student must earn a minimum of 35 credit hours, and in the minor language 26 credit hours. The required upper level foreign language courses for the major language are:

Plus a minimum of ten additional selected hours of advanced courses in the major language:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<td>( -- ) 303</td>
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<td>( -- ) 401</td>
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<td>( -- ) 403</td>
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<td>( -- ) 405</td>
<td>4</td>
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<tr>
<td>( -- ) 406</td>
<td>4</td>
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</tbody>
</table>

If the student’s oral ability is weak, 203 will be required before 303 can be taken.

For the minor language the required upper level foreign language courses are:

Plus a minimum of nine additional selected hours of advanced courses in the minor language:

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<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>( -- ) 301</td>
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<tr>
<td>( -- ) 303</td>
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<td>( -- ) 401</td>
<td>4</td>
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<tr>
<td>( -- ) 403</td>
<td>2</td>
</tr>
</tbody>
</table>

If the student’s oral ability is weak, 203 will be required before 303 can be taken.

Single Foreign Language:

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

**French (45 credit hours)**

FRE 301 (4)  
FRE 303 (3)  
FRE 305 (4)  
FRE 401 (4)  
FRE 403 (2)  
FRE 405 (4)  
FRE 406 (4)  
FRE 516 (4)  

**German (45 credit hours)**

GER 301 (4)  
GER 303 (3)  
GER 305 (4)  
GER 401 (4)  
GER 405 (4)  
GER 406 (4)  
GER 516 (4)  

**Italian & Russian (45 credit hours)**

(____) 301 (4)  
(____) 303 (3)  
(____) 305 (4)  
(____) 401 (4)  
(____) 405 (4)  
(____) 406 (4)  

**Spanish (45 credit hours)**

SPA 301 (4)  
SPA 303 (3)  
SPA 305 (4)  
SPA 401 (4)  
SPA 403 (2)  
SPA 405 (4)  
SPA 516 (4)  
SPA 562 (4)  

If the student's oral ability is weak, 203 will be required before 303 may be taken.

**MATHEMATICS (MAE)**

The typical program for prospective mathematics teachers consists of a minimum of 47 credit hours in mathematics above the 200 level. The specialization requirements are:

- MTH 302 (5) Upper level mathematics
- MTH 303 (4) electives (MTH 345 and MTH 347 are recommended) (17)
- MTH 309 (3)
- MTH 322 (4)
- MTH 423 (3)
- MTH 424 (3)

The student has the option of completing a Natural Science major with a concentration in mathematics. This requires a minimum of 36 credit hours in mathematics and a minimum of 24 credit 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 four credit hours at the 300 level or above.

**SCIENCE**

**Botany (BOE), Chemistry (CHE), Physics (PHE), Zoology (ZOE):**

A student planning to teach science at the secondary level should complete the departmental major in the corresponding science area (in Botany, Chemistry, Physics, or Zoology). 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 (chemistry and physics) teachers.

**Science Education (SCE):**

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 credit hours in the discipline of major concentration and 24 credit 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 credit hours minimum.) Concentrations are available in biology, physics, and chemistry. A typical program for a biology concentration includes:

**HUMANITIES EDUCATION (HUE)**

Specialization Requirements (3 cr. hrs. in HUM 591; Selected Topics in Humanities; and 42 cr. hrs. from the following):

- HUM 411, 412. Twentieth-Century Arts and Letters (5,5)
- HUM 415, 416. Arts and Letters of the Romantic Period (4,4)
- HUM 417, 418. Nineteenth-Century Arts and Letters (4,4)
- HUM 419, 420. The Enlightenment (4,4)
- HUM 423, 424. Renaissance Arts and Letters (4,4)
- HUM 427, 428. Medieval Arts and Letters (4,4)
- HUM 431, 432. Classical Arts and Letters (4,4)
- HUM 535, 536, 537. Humanities in America (4,4,4)
- HUM 539, 540. Selected Non-Western Humanities (4,4)
- HUM 541. Humanities in the Orient: India (4)
- HUM 542. Humanities in the Orient: China (4)
- HUM 543. Humanities in the Orient: Japan (4)
- HUM 545. Latin American Arts and Letters (4)
- HUM 581. Directed Study (1-5)

Also required (a minimum of 9 cr. hrs. in the creative or performing arts from the following areas: TAR, ART, MUS, DAN, and ENG.) Academic work in these areas taken prior to entering the College of Education will be considered toward the satisfaction of this requirement.
SOCIAL SCIENCE (SSE)

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 in the Social Science Education major specifies 64 credits or studies in one of the separate subject areas. Each program contains both required and elective courses which each student in consultation with his adviser will select.

VOCATIONAL AND ADULT EDUCATION CERTIFICATION PROGRAMS

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.

BUSINESS AND OFFICE EDUCATION (VBU)

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. Two special methods courses are included in the professional education sequence. Specialization requirements include:

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<tr>
<th>Subject</th>
<th>Credits</th>
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<tr>
<td>ACC 201</td>
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<td>ACC 201-202 (9)</td>
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<td>Two of the following:</td>
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<td>ECN 100</td>
<td>(5)</td>
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<td>ECN 200</td>
<td>(4)</td>
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<tr>
<td>and GBA 361</td>
<td>(5)</td>
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<tr>
<td>GBA 371</td>
<td>(4)</td>
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<tr>
<td>Nine hours of shorthand† (9)</td>
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<tr>
<td>EDV 353</td>
<td>(5)</td>
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<tr>
<td>EDV 431* (4-8)</td>
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<tr>
<td>EDV 361</td>
<td>(5)</td>
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<tr>
<td>EDV 461</td>
<td>(5)</td>
</tr>
<tr>
<td>Electives in Education and/or Business Administration courses to bring total to 73</td>
<td></td>
</tr>
<tr>
<td>Electives (12 or 13)</td>
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</table>

†Student may demonstrate competency in shorthand and typewriting.
*Required only if student lacks sufficient office work experience.

INDUSTRIAL-TECHNICAL EDUCATION (VIT)

Enrollment in the area of Industrial-Technical Education is restricted to persons with employment experiences 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 becoming teachers of marketing and distribution in schools and programs as listed under the discussion of Vocational and Adult Education Certification Programs. 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:

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<th>Subject</th>
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<td>ACC 201</td>
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<tr>
<td>MKT 311</td>
<td>(3)</td>
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<tr>
<td>ECN 200</td>
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<tr>
<td>Electives (9)</td>
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<tr>
<td>MKT 301</td>
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The remaining 30 hours will be in Distributive Education and approved electives, and must include:

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<tr>
<td>EDG 401</td>
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<td>One of the following:</td>
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<td>EDV 506</td>
<td>(4)</td>
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<tr>
<td>EDV 507</td>
<td>(4)</td>
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<tr>
<td>MTH 345</td>
<td>(5)</td>
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<tr>
<td>Electives (12 or 13)</td>
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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.)

DISTRIBUTIVE EDUCATION (VDE)

Distributive Education is a program for those interested in
validate up to 45 credit hours through an Occupational Competency Examination. In addition to the professional core, they must take 29 credit hours in Vocational & Adult Education selected as follows:

- EDV 207 (4)
- EDV 443 (5)
- EDV 445 (4)
- EDV 480 (4)
- EDV 503 (4)
- EDV 504 (4)
- EDV 507 (4)
- EDV 506 (4)
- EDV 511 (4)

In addition, students must meet the General Distribution Requirements of 60 credit hours and SPE 201.

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

**MASTER'S LEVEL DEGREE PROGRAMS**

**Admission**

Candidates for admission to graduate study must present satisfactory evidence of:

1. Undergraduate grade-point-ratio of 3.0 (B) minimum on the last half of the baccalaureate degree; or GRE aptitude score—1000 minimum.
2. Any additional requirements specified by the program.
3. Receive favorable recommendation from 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 adviser. The completed report should be filed with the Coordinator of Graduate Studies in the College of Education.

**Quality of Work**

Candidates for the master’s degree must maintain a 3.0 GPA. If at any time the student’s GPA falls below the minimum, the student will be placed on probation. During the probationary status the student’s academic progress will be reviewed to determine: 1) removal from probation, 2) continuation on probation, 3) drop from graduate program.

**Residency**

The candidate for the master's degree will be required to meet the residency requirement established by each program area. Consult the appropriate program area for details.

**Comprehensive Examination**

During the last term of enrollment, prior to completion of degree requirements, the candidate must perform satisfactorily on a comprehensive examination.

**Process Core Examination**

Graduate students with sufficient undergraduate background may take the Process Core Examinations after consultation with their advisers. Successful performance on the examination enables a student to waive the course requirement, but he must take elective courses in lieu of the hours required. The Process Core Examinations are in the Foundations of Education. Graduate students on a Plan II Master’s Program (see below) are not eligible to take the Process Core Examinations unless they have had a comparable course at the undergraduate level.

**Master of Arts Programs**

Qualified persons may pursue graduate study in the following majors:

- Art Education (EDA)
- Elementary Education (EDE)
- English Education (ENE)
- Exceptional Child Education tracks in:
  - Emotionally Disturbed (EMD)
  - Gifted (GIF)
  - Mental Retardation (MRD)
  - Specific Learning Disabilities (SLD)
- Modern Foreign Language* (MOE)
- Guidance (EDG)
- Humanities Education (HUE)
- Library-Audiovisual (EDL)
- Mathematics Education (MAE)
- Music Education (EDM)
- Physical Education (EDP)
- Reading Education (EDR)
- School Psychology (PSE)
- Science Education† (SCE)
- Social Science Education (SSE)
- Speech Communication Education (SPE90)
- Vocational Education with tracks in:
  - Adult Education (VAD)
  - Distributive Education (VDE)
  - Business and Office Education (VBU)
  - Industrial-Technical Education (VIT)
- Junior College Teaching:
  - Astronomy (AST90)

![Course Codes](EDV 505 (4) EDV 507 (4) EDV 506 (4) EDV 511 (4))

[Biology (BIO90)]
[Business (BUS90)]
[Chemistry (CHM90)]
[Economics (ECN90)]
[Engineering‡ (EGP90)]
[English (ENG90)]
[French (FRE90)]
[Geography (GPE90)]
[Geology (GLY90)]
[History (HTY90)]
[Mathematics (MTH90)]
[Physics (PHY90)]
[Political Science (POL90)]
[Psychology (PSY90)]
[Sociology (SOC90)]
[Spanish (SPA90)]
[Speech Communication (SPE90)]

*French, German, or Spanish.
‡With concentrations in Biology, Chemistry, or Physics.
‡Engineering bachelor’s degree required.

**Master of Education Programs**

Qualified persons may pursue graduate study in the following majors:

- Administration and Supervision (ESA)
- Curriculum and Instruction (CUR)
PROGRAM PLANS OF STUDY

Plan I

Plan I is a program of graduate studies designed for those with appropriate certification who desire to increase their competence in a subject specialization or receive professional preparation in one of the service areas of education.

A. PROCESS CORE (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 areas of specialization beginning below are suggested programs of study. Individual programs will vary depending on background, experience, and specific interest.

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ART EDUCATION (EDA)

In consultation with a graduate adviser, 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 credit hours, 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.

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ELEMENTARY EDUCATION (EDE)

This program requires full certification as an elementary teacher for admission. Students pursuing the master's degree in elementary education are required to present credit in the following courses: EDE 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.

---

Plan II

Plan II is a program of graduate studies designed for the holder of a non-education baccalaureate degree who desires to meet initial certification requirements as part of a planned program leading to the Master of Arts degree. (This program is not available in the area of elementary education.)

A. PROCESS CORE (21 hours)


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

C. SPECIALIZATION (27 hours minimum)

This is an individually planned graduate major in the teaching field or in an appropriate College of Education program for K-12 specialists.

D. INTERNSHIP (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.

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Program Descriptions

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

ART EDUCATION (EDA)

- Reading Emphasis: Three courses from EDR 530, EDE 611, EDR 631, EDR 632, and EDE 631 or EDE 605 are required.
- Supervision Emphasis: EDC 661, 671, and EDE 641 are required.
- Early Childhood Emphasis: Individually planned emphasis to include EDE 529 and three courses from the following: EDE 527, 531, 539, 629, 639.

Elementary-Secondary Education

This concentration requires recommendation of the program for admission. Requirements in specialization and related courses total 32 hours and include: EDE 527, 531, 539, 609, 629, and 639.

ENGLISH EDUCATION (ENE)

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—Requirements for admission: A bachelor's degree in English Education from a recognized institution, or Rank II certification in Secondary English from the State of Florida or other equivalent certification. 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 credit hours of relevant work in Education on this degree. Plan I requires at least 32 hours of English as specified below.
The student with an non-education baccalaureate degree outlined below. Composition for Teachers), one advanced course in linguistics, depth preparation in two English areas (minimum of two courses in each) from among the emotionally available under both teachers. and experienced teachers, within four quarters. including electives, are planned jointly by the student and his consultant or teacher-leader basis. An inexperienced teacher-training program is also provided which is designed to prepare non-certified, liberal arts 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 program, a certified, experienced teacher may satisfy the requirements for graduation within four quarters. At least 27 hours are allocated to the area of specialization. Courses required: EDS 531, EDS 610, EDS 611, EDS 632, EDS 633, and EDS 639, or equivalents, are required of all students. Additional courses, including electives, are planned jointly by the student and his advisor.

PLAN II — The student with a non-education baccalaureate degree may meet initial certification 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 which may be necessary to meet certification requirements.

Gifted (GIF)

The Gifted Child Teacher Training program provides advanced training for experienced teachers to work with gifted and talented children and to work with other teachers on a consultant or teacher-leader basis. An inexperienced teacher-training program is also provided which is designed to prepare non-certified, liberal arts 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 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 29 credit hours in the area of specialization is required. Included among the courses required are courses such as EDC 552, EDS 550, EDS 551, EDS 559, EDS 611, EDS 643, EDS 653 and EDS 654.

An individually tailored liberal arts sequence of 14 quarter hours is also provided in the gifted teacher training program.

PLAN II — An individual with a non-education 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: EDC 552, EDS 550, EDS 551, EDS 559, EDS 611, EDS 643, EDS 653 and EDS 654.

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

Mental Retardation (MRD)

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 Mental Retardation Program 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 (16-17 hours)
At least 28 hours are allocated to the area of specialization with an emphasis on Mental Retardation.

Basic Course Requirement: EDS 610, or the equivalent.
Courses required: EDS 611, EDS 622, EDS 623, FDF 635, EDL 514 or EDE 631, EDS 620, EDS 621, CLY 683.

Two Electives, chosen from the following (8): EDS 612 (4), EDS 613 (4) EDS 561 (4), EDS 511 (4), EDS 531 (4), EDS 581 (4), EDC 699 (8).

PLAN II — Process Core Requirements (16-17 Hours)
At least 40 hours are allocated to the area of specialization with an emphasis on Mental Retardation.

Basic Course Requirement: EDS 610, or the equivalent, EDE 409, EDE 415, EDE 514 or EDE 631, EDC 501, EDS 322, EDS 423 or EDS 425, EDS 424, EDP 640 or EDF 207.

Courses required: EDS 611, CLY 683, EDS 620, EDS 621, EDS 622, EDS 623, EDF 635, EDC 691, EDS 529.

Specific Learning Disabilities (SLD)

The course of study is designed to prepare the student to become a more effective learning disabilities specialist.

PLAN I — Process Core Requirements (16-17 hours)
At least 40 hours are allocated to the area of specialization with an emphasis on Specific Learning Disabilities.

Basic Course Requirement: EDS 610, or the equivalent.
Courses Required: EDS 611, CLY 683 or EDL 514 or EDE 625 or EDE 631, EDS 581, EDS 582, EDS 635, EDE 516, EDR 631, EDR 632, EDS 561 or EDS 531, EDS 623.

PLAN II — Process Core Requirements (16-17 hours)
At least 48 hours are allocated to the area of specialization with an emphasis on Specific Learning Disabilities.

Basic Course Requirements: EDS 610, EDE 409, EDE 415, EDE 515, EDE 514 or EDE 625 or EDE 631, EDC 501, EDS 411.

Courses Required: EDS 611, CLY 683, EDS 581, EDS 582, EDC 691, EDE 516, EDS 635, EDR 631, EDR 632, EDS 561 or EDS 531, EDS 623.

One Elective, chosen from the following: EDE 417, EDE 419, EDE 421, EDE 424, EDE 425, EDF 207.

FOREIGN LANGUAGE EDUCATION (FRENCH, GERMAN, SPANISH) (MOE)

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 Modern 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 credit 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 (EDG)

PLAN I — The guidance program typically requires seventeen credit hours from the Process Core including EDF 605, 607, 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.

a. Elementary School Guidance Emphasis: Requirements in specialization and related courses total 38 credit hours and include EDG 601, 603, 609, 613, 617, 621, 625, 633, and EDF 631 or PSY 452.

b. Secondary School Guidance Emphasis: Requirements in specialization and related courses total 39 credit hours and include EDG 601, 603, 609, 623, 627, 633, EDF 631 or PSY 452, 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 (HUE)

The program in Humanities consists of 27-45 credit 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.

■ LIBRARY-AUDIOVISUAL (MEDIA) EDUCATION (EDL)

Basic courses are required for all students with a choice of specialization for work in one of the following areas: School Media (formerly School Library); Public Library; Academic Library; Special Library. The requirements for the School Media specialization include Rank II certification for the State of Florida. Other requirements prepare the student to assume leadership roles in the profession.

The University minimum number of graduate course work hours is 45. The number of credits required in this department range from 46 to a possible maximum of 75. The exact number of hours is determined in conference with the student and his assigned departmental adviser on the basis of the student's needs and the departmental standards for the specialty areas of study. Thesis hours when elected (4-6) are in addition to course work.

Required courses for students in all library specializations are ERL 513, ERL 515, ERL 600, ERL 601, ERL 615 (or their equivalents as assessed by the student's adviser) and one audiovisual or instructional technology course. ERL 513, 515, 615 and the audiovisual or technology course were taken at an undergraduate level or at another university, with the consent of the adviser, alternative courses may be chosen as substitutes.

Administration courses recommended for each specialization are: ERL 612 (School Media), ERL 621 (District or System School Media Centers), ERL 640 (Public Libraries), ERL 650 (Academic Libraries), ERL 660 (Special Libraries). School Media 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. Students interested in more extensive preparation in the non-print areas of the school media specialization may expect to take 6-9 hours more of course work or field experiences in this area. All school media students are subject to the same core education requirements and/or waivers as all other graduate education students. Students requiring internship will take Field Work (EDR 609) in one school level media center (e.g. Elementary) and Internship (EDRC 691) in the other school level media center (e.g. Secondary).

Public, Academic and Special Library students are exempted from the Education core courses. Among recommended courses for them in lieu of the Education core are: EDF 502 (Adolescence, Education), EDF 651 (The Junior College in American Higher Education), MAN 601 (Management, Business), ESC 301 (Computer Systems and its prerequisites, Engineering), POL 525 (Problems of Public Personnel Administration) or POL 527 (Comparative Public Administration, Political Science), and SSI 503 (Contemporary American Culture, Sociology). Each student is urged to take field work (EDL 609) in the area of his specialization.

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

Criteria for admission and for graduation are those general criteria specified by the College of Education. Graduation requirements include the fulfillment of the student's filed program of studies, application for graduation at the beginning of the quarter in which he intends to graduate, and the successful completion of a final comprehensive examination administered by the Library-Audiovisual program. If the option of Thesis or Master's Essay has been chosen by the student, these manuscripts are subject to the criteria determined by the University.

■ MATHEMATICS EDUCATION (MAE)

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.

■ MUSIC EDUCATION (EDM)

Plans in both instrumental 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, 614, and 635; 8 to 12 credits in music theory-literature, and at least 4 credits in applied music.

Instrumental Majors: 7 to 14 credits in music education, including EDM 601, 603, 617, 633; 8 to 12 credits in music theory-literature, including MUS 618; and at least 4 credits in applied music.

PHYSICAL EDUCATION (EDP)

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.

READING EDUCATION (EDR)

Specialization in Reading Education shall include a minimum of 32 credit hours: EDE 609, 631, EDR 509, 631, 632, 633, 634, 635. (Candidates who have had a children's literature course at either graduate or undergraduate level may take an elective in lieu of EDE 631).

Students entering the program with an undergraduate major outside elementary education should substitute EDE 409 for EDE 609.

Electives must be chosen by conference with adviser.

Residency requirements may be met by enrolling for two courses, at least eight credits, during a quarter when the student is not engaged in a full-time work assignment.

SCHOOL PSYCHOLOGY (PSE)

The School Psychology program is offered jointly with the Department of Psychology in the College of Social and Behavioral 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.
■ SCIENCE EDUCATION (SCE)

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

■ SOCIAL SCIENCE EDUCATION (SSE)

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 degree but 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 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.

■ SPEECH COMMUNICATION EDUCATION (SPH)

Admission requires a bachelor's degree from a recognized institution, and approval of the Speech Communication Education faculty.

Course requirements range from 53 to 61 hours: Plan I process core requirements; 10 hours in speech communication education; and 35 hours in speech communication 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 communication.

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

■ VOCATIONAL EDUCATION

Adult Education (VAD)

1. In consultation with the graduate adviser, a program will be planned which will include a minimum of 45 credit hours. Specialization requirements of 27 credit hours in Adult Education are designed to provide competencies in organization and administration, supervision, adult learning characteristics, curriculum development, program planning, methods of teaching and research techniques as each of these relate to adult education programs. Generally, specialization courses will be selected from the following, depending upon the individual's background of experience: EDV 445, 503, 505, 506, 507, 631, 661, 671, 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 (VBU)

1. A minimum of 12 credit 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, 687. Any deficiencies needed for business teacher certification must be included in the Master's candidate's program.

2. Selected courses from which to choose in Vocational and Adult Education: EDV 431, 445, 480, 503, 504, 505, 506, 507, 511, 605, 621, 631, 641, 651, 661, 671, 687.

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

Distributive Education (VDE)

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

2. Distributive Education (minimum of 12 credit hours) EDV 431, 445, 480, 503, 504, 505, 506, 507, 511, 621, 641, 651, 661, 671.

3. EDV 687 Seminar in Distributive Education Research.

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

Industrial-Technical Education (VIT)

PLAN I — 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, 661, 671, and 687 are specialization requirements. Courses totaling a minimum of 45 credit 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 credit 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.

■ JUNIOR COLLEGE TEACHING PROGRAM

PLAN II — 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:

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

*Engineering bachelor's degree required.

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.

The Program

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

1. Specialization (36-45 hours)

Typically, the student's program will include 36-45 credit hours of graduate work in a field of specialization. The specialization sequence to be completed will be worked out in consultation with a designated major field adviser. This "typical" program is based on the assumption that the student has an undergraduate background in his specialization area which is roughly equivalent to the pattern of the appropriate University of South Florida major. Students admitted without such preparation may be required to correct deficiencies. By the same token, the unusually well prepared student may be permitted to take fewer courses in his specialization area, substituting approved electives from other fields of study.

2. Professional Education (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 (4-9 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 one quarter of part-time 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 adviser.

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 credit hours if the advisers deem it to be desirable.

MASTER OF EDUCATION PROGRAMS

- ADMINISTRATION AND SUPERVISION (ESA)

This Master of Education (M.Ed.) degree is to prepare administrators and supervisors with organizational, management, and instructional leadership skills. Admission requirements include: (1) certification in a teaching field, (2) at least two years of successful teaching experience or Rank II certification in an instructional area, (3) current U.S.F. graduate admission requirements, (4) College of Education requirements for admission to graduate study. Successful completion of the program leads to both the M.Ed. degree and Florida Rank II certification in Administration and Supervision.

- CURRICULUM AND INSTRUCTION (CUR)

This Master of Education (M.Ed.) degree program is to prepare certified teachers who have at least two years of successful teaching experience and want to improve their teaching skills and/or become team leaders, department heads, program coordinators, directors of instruction, and assistant principals of curriculum. The degree requires at least 50 quarter hours with 60 percent or more at the 600 level. No specific research and thesis is required. Successful completion of the program will lead to both the Master of Education degree and Florida Rank II certification.

ED.S. PROGRAM

The Education Specialist (Ed.S.) program has been developed to provide for state approved Rank I-A certification. The program offers specialization in Elementary Education, with emphasis on urban education. In addition, there are tracks under the elementary specialization available in (1) Early Childhood Education, (2) Exceptional Child Education, (3) Mathematics Education, and (4) Reading/Language Arts Education.

PH.D. PROGRAM

The Doctor of Philosophy degree is available in Education. Specialization is in Elementary Education with research emphasis on problems of urban education. In addition, there are tracks available under the elementary specialization in (1) Early Childhood Education, (2) Exceptional Child Education, (3) Mathematics Education, and (4) Reading/Language Arts Education.
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 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 to those programs under its direction which are vital to our technological progress. It provides for individual development both in technical competency and human values.

The programs offered by the College of Engineering to meet the diverse requirements of our technological society can be broadly divided into two areas: PROFESSIONAL ENGINEERING and APPLIED SCIENCE AND TECHNOLOGY. The degrees and services associated with these areas are as follows:

### Professional Engineering Degree Programs

<table>
<thead>
<tr>
<th>Degree</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Science in Engineering degree (Professional Program)</td>
<td>various options</td>
</tr>
<tr>
<td>Master of Science in Engineering degree (Thesis or Project)</td>
<td></td>
</tr>
<tr>
<td>Master of Engineering degree (Non-Thesis)</td>
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</tbody>
</table>

### Applied Science and Technology Degree Programs

<table>
<thead>
<tr>
<th>Degree</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Science in Engineering Science degree</td>
<td>Computer Science Option</td>
</tr>
</tbody>
</table>

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### PROFESSIONAL ENGINEERING

The Engineering programs of the College have been developed with an emphasis on three broad aspects of engineering activity — design, research, and the operation of complex technological systems. Students who are interested in advanced design or research should pursue the Five-Year Program leading to the Master of Science in Engineering degree. 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 degree 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, and as such the first professional degree, students are strongly encouraged to pursue advanced work beyond the baccalaureate either at this or other institutions. It is becoming increasingly evident that a large segment of today's Engineering profession is involved in some form of post baccalaureate study. Engineers are earning advanced degrees 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 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, which requires 201 quarter hours, and the five year program leading to the Master of Science in Engineering degree, which is an integrated program of 246 quarter hours, are the programs specifically designed to prepare an individual for a professional career as an engineer. Both programs have as their foundations 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>
</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 (preferably including Chemistry and Physics), as well as full programs in the social sciences and humanities, are most important to success in any engineering college. A foreign language, while not a necessity, provides a desirable background for students, 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 from a State of Florida operated college or university should plan to graduate with an A.A. degree, thus completing their general education requirements. All transfer students should also complete 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.

Prospective students who are considering engineering at the University of South Florida who lack certain preparation in high school should elect to follow a program which will assist them in overcoming their deficiencies. One alternative might be that such a student select a summer program at the University of South Florida to update knowledge in mathematics and the physical sciences. Another alternative might be for the prospective Engineering student to take some remedial work and a less accelerated program 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 remedial course work, and many of which also offer full programs in pre-engineering (first two years' course work).

The College of Engineering can assist students who are planning to obtain an Engineering degree from the University of South Florida and who have started their studies elsewhere in formulating a sound total program. Interested students should contact the Dean's office furnishing sufficient detail to permit meaningful response.

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 a 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 in the Dean's Office.

The student and adviser jointly work out a plan of study which meets both the student's career objectives and the College of Engineering's degree requirements. A student may change 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 notify the old college of the transfer and request his/her records be sent to the College of Engineering. Students are advised to buy calculators only after consultation with their adviser.

Departments & Programs

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

Engineering coursework identified as 300 level or higher is considered professional level work and students enrolling for this work must be pursuing an Engineering degree or have received prior permission from the Office of the Dean or the department chairman sponsoring the coursework.

Electrical and Electronic Systems (EGE)

This department offers study in all areas fundamental to Electrical Engineering and the electrical sciences: circuit analysis and design, electronics, communications, electromagnetics, control, solid state, systems analysis, electronic computer design, etc. Basic concepts are augmented with well-equipped laboratories in networks, electronics, automatic control, digital systems, electromechanics, microwave techniques and communications. In addition, a small general purpose computer facility and a microelectronics fabrication laboratory are available to undergraduate and graduate students. The department administers the Electrical Option of the Bachelor of Science in Engineering (B.S.E.) degree program, the Master of Engineering (M.E.) degree program in Electrical Engineering, and the area of Electrical Engineering for the Master of Science in Engineering (M.S.E.) degree.

Energy Conversion and Mechanical Design (EGR)

This department offers study pertinent to the analysis and design of machines and systems needed by our modern society, through courses dealing with the classical Mechanical and Chemical Engineering subjects of lubrication, vibration, and fatigue analysis, machine design, thermodynamics, heat transfer, environmental control, transport phenomena and reactor dynamics. In addition, it provides instruction in other fields of increased importance to the engineers of the future. Some of these fields are computer simulation, instrumentation, automatic control, power utilization, acoustics, and nuclear processes and the design and evaluation of innovative systems for energy utilization and pollution control. This department administers the Chemical and the Mechanical Options of the Bachelor of Science in Engineering (B.S.E.) degree program, as well as the area of Mechanical and Chemical Engineering for the Master of Science in Engineering (M.S.E.) degree.

Industrial Systems (EGS)

This department offers study pertinent 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, measure-
ment and methods design, economic evaluation, etc., are studied along with computers, operational research and statistical techniques. The department administers the Industrial Option of the Bachelor of Science in Engineering (B.S.E.) degree program, the Master of Engineering (M.E.) degree program in Engineering Administration, the area of Industrial Engineering for the Master of Science in Engineering (M.S.E.) degree and instructs students in Computer Service courses offered by the University of South Florida.

Structures, Materials, and Fluids (EGX)

This department offers course work and study pertinent to Civil Engineering, Engineering Mechanics, and Materials Science. Topics included are structural analysis, design and optimization; metals, polymers, ceramics; solid and fluid mechanics, stress analysis, vibrations, continuum mechanics, aerodynamics, gas dynamics, wave propagation, numerical methods; water resources, waste treatment, environmental engineering, and hydrospace engineering. The department administers the Structures, Materials and Fluids option of the Bachelor of Science in Engineering (B.S.E.) degree program, and offers several concentrations within this option. It also administers the area of Structures, Materials and Fluids for the Master of Science in Engineering (M.S.E.) degree.

Engineering Core and Specialization

Both the four-year and five-year curricula of the College of Engineering are founded on a common core of course work which is required of all students. This course work is designed to give each student a thorough foundation of knowledge on which specialization studies and a professional career can be based.

Emphasis is placed on three key elements: a solid foundation in science and mathematics, a basic understanding in all major engineering disciplines, and familiarity with Social Science and Humanities — to develop the whole individual.

This common foundation of 152 minimum quarter hours breaks down as follows:

Core Requirements

1. Social Science and Humanities Core Requirements (47 credit hours minimum)

Prospective Engineering majors must take 9 credit hours of Freshman English (ENG 101, 102, 103).

An additional 38 credit hours of course work is required in this core area, of which at least 34 hours must be selected from the "Approved Social Science and Humanities Courses" list for Engineering and Engineering Science students. A minimum of 12 credit hours of this course work must be of 200 level or higher. At least 8 credit hours must be taken in each the Humanities/Fine Arts area and the Behavioral and Social Sciences area (to meet the University's General Distribution Requirements). It is recommended that the student pursue specific subject areas to some depth, since this develops areas of knowledge and interests which are vital development of the individual and later assist in relating a professional career to non-technical environments and situations.

It is desirable that at least 35 hours of this course work be taken in the first two years. Students are responsible for checking with their advisers to be sure that the specific courses they are taking meet the requirements of the Bachelor of Science in Engineering degree program.

Students who transfer from a State of Florida community college with an Associate of Arts degree and who have met that college's General Education Requirement will normally find that their General Education course work satisfies the major portion of this Social Science and Humanities Core requirement.

Credit by Examination can be obtained for some of this course work. CLEP General Examination credit is accepted for the area of English Composition, Humanities and Social Science. Credit for CLEP Subject Examinations and CEEB Advanced Placement Tests can be accepted when the subject covered is recognized to be equivalent to USF course(s) on the "Approved Social Science and Humanities Courses" list. Questions in this area should be addressed to the Coordinator of Engineering Advising in the Dean's office.

2. Mathematics and Science Core Requirements (49 credit hours minimum)

In mathematics, students must take Calculus for Engineers (MTH 351 - 354), one course in differential equations, and one additional advanced mathematics course approved by their departmental or program adviser.

In science, students must take CHM 211-213, PHY 301-306, and PHY 323 or an appropriate individual substitution as approved by their adviser.

Some credit towards this core requirement can be obtained by passing applicable CEEB Advance Placement Tests or CLEP Subject Examinations.

3. Engineering Core Requirements (56 credit 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, EGB 208, 209 may be substituted for EGB 102 and 203 with the College of Engineering adviser's prior approval.

FOUR-YEAR PROGRAM—BACHELOR OF SCIENCE IN ENGINEERING DEGREE (EGU)

The program consists of a minimum of 152 credit hours of core course material plus 49 credit 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.

1. General Option (49 credit hours)

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

Under this option a program in Biomedical Engineering includes course work in Biology (6 to 9 hrs), Zoology (5 hrs), Organic Chemistry (5 to 10 hrs), Biomedical Systems Engineering (EGS 431 433, 9 hrs) an approved Senior Project in the biomedical area, and electives to complete the 49 credit hour specialization.

Pre-medical students follow a slight modification of this program which permits them to meet normal admissions requirements of medical schools.

Pre-law students find this option permits a strong technical and legal academic preparation.

2. Options in Chemical (49 credit hours.)

EGR 315 Heat Transfer I
EGR 333 Organic Chemistry II
EGR 334 Organic Chemistry Laboratory
EGR 348 Physical Measurements I
EGR 350 Energy Conversion Laboratory I
EGR 411 Thermodynamics IV
### 3. Option in Electrical (49 credit hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EGE 310</td>
<td>Network Analysis and Design I</td>
<td>3</td>
</tr>
<tr>
<td>EGE 410</td>
<td>Network Analysis and Design II</td>
<td>3</td>
</tr>
<tr>
<td>EGE 411</td>
<td>Linear Systems Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EGE 320</td>
<td>Electronics I</td>
<td>3</td>
</tr>
<tr>
<td>EGE 420</td>
<td>Electronics II</td>
<td>3</td>
</tr>
<tr>
<td>EGE 421</td>
<td>Communications Circuits</td>
<td>3</td>
</tr>
<tr>
<td>EGE 330</td>
<td>Fields and Waves I</td>
<td>3</td>
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<td>EGE 430</td>
<td>Fields and Waves II</td>
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<td>EGE 499</td>
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<td>EGE 301</td>
<td>Laboratory 1 (Circuits I)</td>
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<tr>
<td>EGE 302</td>
<td>Laboratory 2 (Electronics I)</td>
<td>1</td>
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<tr>
<td>EGE 303</td>
<td>Laboratory 3 (Circuits II)</td>
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<td>EGE 405</td>
<td>Laboratory 5 (Electronics III)</td>
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<tr>
<td>EGE 406</td>
<td>Laboratory 6 (Fields and Waves)</td>
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<tr>
<td>EGE 440</td>
<td>Linear Control Systems</td>
<td>3</td>
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<tr>
<td>EGE 441</td>
<td>Control Laboratory</td>
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<tr>
<td>EGE 450</td>
<td>Microelectronics Eng.</td>
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</tr>
<tr>
<td>EGE 451</td>
<td>Microelectronics Lab.</td>
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<tr>
<td></td>
<td>Approved Technical Electives</td>
<td></td>
</tr>
</tbody>
</table>

### 4. Option in Industrial (49 credit hours)

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGS 401</td>
<td>Industrial Systems</td>
<td>3</td>
</tr>
<tr>
<td>EGS 402</td>
<td>Industrial Processes</td>
<td>3</td>
</tr>
<tr>
<td>EGS 403</td>
<td>Production Design I</td>
<td>3</td>
</tr>
<tr>
<td>EGS 404</td>
<td>Production Design II</td>
<td>3</td>
</tr>
<tr>
<td>EGS 405</td>
<td>Production Control Systems I</td>
<td>3</td>
</tr>
<tr>
<td>EGS 406</td>
<td>Production Control Systems II</td>
<td>3</td>
</tr>
<tr>
<td>EGS 407</td>
<td>Engineering Valuation II</td>
<td>3</td>
</tr>
<tr>
<td>EGS 409</td>
<td>Plant Facilities Design I</td>
<td>4</td>
</tr>
<tr>
<td>EGS 441</td>
<td>Operations Research I</td>
<td>3</td>
</tr>
<tr>
<td>EGS 442</td>
<td>Operations Research II</td>
<td>3</td>
</tr>
<tr>
<td>EGS 461</td>
<td>Engineering Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>EGS 462</td>
<td>Engineering Statistics II</td>
<td>3</td>
</tr>
<tr>
<td>EGS 472</td>
<td>Systems Analysis and Design</td>
<td>5</td>
</tr>
<tr>
<td>EGS 565</td>
<td>Statistical Quality Control</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Approved Technical Electives</td>
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</tbody>
</table>

### 5. Option in Mechanical (49 credit hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGR 311</td>
<td>Thermodynamics III</td>
<td>3</td>
</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>Physical Measurements I</td>
<td>3</td>
</tr>
<tr>
<td>EGR 350</td>
<td>Energy Conversion Laboratory I</td>
<td>2</td>
</tr>
<tr>
<td>EGR 413</td>
<td>Fluid Machinry I</td>
<td>4</td>
</tr>
<tr>
<td>EGR 428</td>
<td>Machine Analysis and 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 Laboratory 2</td>
<td>2</td>
</tr>
<tr>
<td>EGR 453</td>
<td>Mechanical Control</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Approved Technical Electives</td>
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### 6. Option in Structures, Materials and Fluids (49 credit hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>EGR 471</td>
<td>Separation Processes I</td>
<td>3</td>
</tr>
<tr>
<td>EGR 472</td>
<td>Transport Phenomena</td>
<td>4</td>
</tr>
<tr>
<td>EGR 473</td>
<td>Mass Transfer</td>
<td>3</td>
</tr>
<tr>
<td>EGR 474</td>
<td>Separation Processes II</td>
<td>3</td>
</tr>
<tr>
<td>EGR 476</td>
<td>Reacting Systems I</td>
<td>3</td>
</tr>
<tr>
<td>EGR 477</td>
<td>Design and Case problems</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Approved Technical Electives</td>
<td></td>
</tr>
</tbody>
</table>

### Areas of Concentration

- **a. Structures (21 credit hours)**
  - EGX 410 Structures II                        | 4       |
  - EGX 411 Concepts of Structural Design        | 4       |
  - EGX 420 Concepts of Engineering Materials    | 3       |
  - EGX 511 Structures III                       | 5       |
  - Approved Technical Electives                 | 5       |

- **b. Materials (21 credit hours)**
  - EGX 420 Concepts of Engineering Materials    | 3       |
  - EGX 421 Processes in Materials Engineering   | 3       |
  - EGX 520 Engineering Materials III            | 4       |
  - EGX 521 Engineering Polymers                | 3       |
  - EGX 522 Corrosion                           | 3       |
  - Approved Technical Electives                 | 5       |

- **c. Fluids (21 credit hours)**
  - EGX 530 Fluid Mechanics III                  | 4       |
  - EGX 538 Aerodynamics                         | 3       |
  - EGX 535 Water Resources Engineering I        | 4       |
  - EGX 536 Water Resources Engineering II       | 4       |
  - Approved Technical Electives                 | 6       |
d. Civil Engineering (21 credit hours)
EGX 411 Concepts of Structural Design (4)
EGX 481 Transportation I (4)
EGX 485 Soil Mechanics I (4)
EGX 535 Water Resources Engineering I (4)
Approved Technical Electives (5)

e. Water Resources (21 credit hours)
EGX 535 Water Resources Engineering I (4)
EGX 536 Water Resources Engineering II (4)
GLY 533 Advanced Hydrogeology (5)
Approved Technical Electives (8)

f. Applied Mechanics (21 credit hours)
EGX 530 Fluid Mechanics III (4)
EGX 540 Experimental SMF II (4)
EGX 551 Vibrations (3)
EGX 570 Introduction to Continuum (3)
EGX 571 Continuum I (3)
Approved Technical Electives (4)

FIVE-YEAR PROGRAM — MASTER OF SCIENCE IN ENGINEERING
DEGREE (EGG)
This program consists of a minimum of 152 credit hours of core course material plus 94 credit hours of specialization including a maximum of 18 hours of research or design project. Students are admitted to this program early in the beginning of their fourth year of study based on an evaluation by the faculty of their department. Unlike the traditional master’s degree, which is attempted as a fifth year after completion of the baccalaureate degree, in this program both the fourth and fifth years are open to graduate level course work and additional calendar time is available for design or research projects.

The program leads concurrently to both the Master of Science in Engineering degree and the Bachelor of Science in Engineering degree with the specialization phase of the program being individually arranged and involving course work, design, research and/or operational experience. Should the student be unable to complete the full five years, the baccalaureate can be awarded provided the requirements for that degree have been met. Either an engineering report or a research thesis is required. See later section relative to master’s program for additional information.

OTHER REQUIREMENTS FOR ENGINEERS

1. Humanities and Social Science Requirements
While the engineering undergraduate student is expected to complete certain requirements during the first two years of study which are directed toward the humanities and social sciences, and which are fulfilled by the completion of the Distribution requirements of the University (or general education requirements at other institutions), the University of South Florida expects more of its prospective engineering graduates than this minimum. The engineer must not only be a technically competent individual, but must also be a person who can understand, adjust and contribute to the social environment. The undergraduate engineering program at the University requires, in addition to the minimum Distribution requirement of the University, an additional 22 credit hours of Humanities and Social Science course work.

Florida community college transfer students who have completed their General Education Requirements will not have to meet USF’s General Distribution requirements. However, as is the case with USF students who have to take more than the minimum Distribution Requirements coursework in this area, the community college transfer student must expect to take some additional carefully selected upper level coursework in this area to meet the education standards for professional engineering programs in the SOCIAL SCIENCE AND HUMANITIES area.

2. English Requirement
Students who have been admitted to the College of Engineering may be required to take an examination in order to evaluate their preparedness in the use and understanding of the English language. This examination will be administered by the faculty of the University’s English program and 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.

Foreign students entering the College of Engineering must have taken for advising purposes the Test of English as a Foreign Language (TOEFL), and have the score sent to the University’s Admissions Office. A full-time student is expected to achieve a score of 550 or better.

3. Mathematics Requirement
Students who are pursuing an engineering program are expected to acquire a facility for the rapid and accurate solution of problems requiring the use of mathematics. This requirement includes the ability to translate physical situations into mathematical models. Students evidencing a lack of manipulative ability or the ability to apply mathematics will be required to take remedial course work in engineering analysis and problem solving that is over and above their regular degree requirements. Faculty of the College who encounter students who are deficient in their mathematical ability will refer such cases to the Office of the Dean.

4. Continuation Requirements
All undergraduate students registered in the College of Engineering are expected to maintain the minimum of 2.0 average (“C” average) for all work attempted while registered in the College. 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.

Key courses, including but not limited to Calculus, Physics and Engineering core courses in the student’s area of specialization, must be passed with a grade of “C” or better before taking the next course in the sequence.

Students pursuing an engineering degree program are expected to take their courses on a graded (ABCD/F) basis. (Exceptions are required courses not available on a graded basis.)

5. 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’s degree, provided they have met that degree’s requirements.
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 degree program, Master of Engineering degree program, and the Five-Year Master of Science in Engineering degree program. Each professional department may elect to award one of these degrees depending upon prior arrangements with the student. Admission to the master’s program is dependent upon a favorable evaluation by the department concerned. Applicants are expected to meet the minimum requirements of the University and those outlined below and in addition any special requirements specified by the departments and reported to the Dean of the College. Other requirements may be considered.

POST-BACCALAUREATE MASTER OF SCIENCE IN ENGINEERING DEGREE (EGP)

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 Examination and/or a minimum grade point average of 3.0 out of a possible 4.0 for all work attempted during the last two years of undergraduate work is required.

3. Those who do not meet the regular entrance requirements may attempt a trial program as a special non-degree seeking student. Up to 12 hours of work attempted on this basis may be accepted into a graduate program upon satisfactory completion. Before attempting such a trial program the student should determine from the departmental adviser a list of courses and performance criteria for admission.

Program Requirements

1. A minimum of 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 the student will be placed on probationary status and must obtain a directed program from his/her adviser approved by the Dean, prior to continuing course work toward the degree.

3. All students are required to pass a final comprehensive examination which may be written or oral prior to awarding the degree. These examinations are arranged and administered by the student’s 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.

5. 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 each quarter the staff, facilities and laboratories of the University are used whether or not the student has accumulated the maximum credit allowed for research or design toward the degree. All students must register for 3 credits of course 698 or 699 with the appropriate departmental prefix during the quarter in which they submit their thesis or project report.

MASTER OF ENGINEERING DEGREE PROGRAM (EGM)

This non-thesis degree program is designed primarily to meet the needs of engineers actively engaged in the profession who wish to pursue graduate study at the master’s level.

Entrance Requirements

Entrance requirements for the Master of Engineering program are the same as those for the post-baccalaureate Master of Science in Engineering degree 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 an 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 the student will be placed on probationary status and must obtain a directed program from his/her adviser and approved by the Dean prior to continuing further course work toward the degree.

3. All students are required to pass a final comprehensive examination which may be written or oral prior to awarding the degree. These examinations are arranged and administered by the student’s department.

4. Students in this program must register for 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 (EGG)

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. Students apply for admission to this program through their department. They should consult their adviser when they need additional information.

Program Requirements

1. A minimum of 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 in the courses in the student’s graduate course of study. A student in the Five-Year Program who fails to maintain the required academic standards will be placed on probation. Failure to comply with the terms of the probation will result in the student being dropped from the program.

3. Students in this program must complete a design or research project for which up to 9 credits of course 599 and up to 9 credits of course 699, 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. The programs available can be broadly divided into two areas: ENGINEERING SCIENCE and ENGINEERING TECHNOLOGY and are discussed in more detail below.

Engineering Science

Engineering Science presents an attractive choice for 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, computational, 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, and based on the option chosen.

Preparation for Engineering Science

Students anticipating pursuit of studies in Engineering Science should follow the guidelines given for Engineering in this bulletin when planning their high school and/or community college studies.

Engineering Science Advising

Students pursuing a course of study in Engineering Science are assigned to an adviser who is familiar with the requirements of this program and whose special interests match the student’s specialization objectives. Comments and requirements spelled out in the section on Engineering Advising in this bulletin are applicable to this program.

■ FOUR-YEAR PROGRAM—

BACHELOR OF SCIENCE IN

ENGINEERING SCIENCE DEGREE

(EGC)

The College of Engineering offers a curriculum leading to the Bachelor of Science in Engineering Science degree which stresses the scientific 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 one’s education in humanities and social sciences. The exact composition of the curriculum followed by a given student is determined by the student with the advice and consent of the academic adviser, and based on the option chosen.

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 who transferred to the University of South Florida from FSU can graduate under the catalog in which they entered that institution.

An option in Computer Science covers subjects that range from the elements of programming languages to the design and organization of computer systems. They also include the study of the hardware-software interfaces and the elements of digital machine design. The application of digital computers to problems in a variety of fields may be studied through the selection of specialized electives.

An option in Applied Mathematics covers applied analytical techniques to establish a more fundamental understanding of basic physical phenomena leading to engineering applications. Areas of mathematics considered from an applied viewpoint include modern algebra, theory of algorithms, classical advanced calculus, complex variables, probability and statistics, numerical procedures, approximation theory, operations research, and applied mathematical programming. The use of computers is emphasized. This program provides the student with an opportunity that is not available in either a pure mathematics curriculum or in a design-oriented engineering program.

An option in Biomedical Systems provides a background for those anticipating a medically oriented career. The simulation and analysis of human systems and the computer processing of biomedical data (such as cardiac, pulmonary, and neural signals) form typical areas of concern.

An option in Environmental Science is available for students who desire to develop a broad interdisciplinary background necessary for careers in environmental protection with industry and government. Training is provided in the sociological sciences of politics, government, and social
science; the communication arts (speaking and writing); and the scientific and technological aspects of air, water, and noise pollution.

Other options are available in such areas as Ocean and Energetics.

**Baccalaureate Requirements (minimum 180 credit hours)**

The Bachelor of Science in Engineering Science degree program requires a strong foundation in mathematics and science, foundation course work in the humanities, social sciences, and other non-technical areas, a basic knowledge of engineering fundamentals, and culminates in approximately one year of specialized — often interdisciplinary — studies. These basic requirements are further listed below.

1. Humanities, social science, and other non-technical areas requirement (42)
2. Mathematics and science requirement (45)
3. Engineering Science core requirement (41)
4. Specialization requirement (52)

(There may be minor variations from these numbers in special cases resulting from the FSU transfer or a specific, defined option.)

**Other Requirements for Engineering Science**

The English, Mathematics, Continuation, and Graduation requirements for the Engineering degree program are applicable to the Engineering Science degree program.

■ **FIVE-YEAR PROGRAM — MASTER OF SCIENCE IN ENGINEERING SCIENCE DEGREE (EGC)**

Students who at the beginning of their senior year are clearly interested in graduate study are invited to pursue a five-year program of study leading simultaneously to the Bachelor of Science in Engineering Science and Master of Science in Engineering Science degrees. The keys to this program are:

1. A two-year research 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 the fifth year. The requirements for the combined degrees do not differ from those for the two degrees pursued separately.

Students apply for admission to this program through their adviser, and he should be consulted when additional information is needed. General requirements include:

1. Senior standing (135 credits) with at least 24 credits completed at the University of South Florida in the engineering science curriculum.
2. A minimum score of 1000 on the verbal and quantitative portions of the Graduate Record Examination is expected.
3. Above-average performance in the engineering science program is expected.

■ **POST-BACCALAUREATE—MASTER OF SCIENCE IN ENGINEERING SCIENCE DEGREE (EGC)**

The admission and program requirements (minimum 45 credit hours) for this degree are essentially the same as those itemized for the Master of Science in Engineering degree, page 71.

■ **DOCTOR OF PHILOSOPHY DEGREE IN ENGINEERING SCIENCE (EGC)**

Doctoral students previously 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 to The Florida State University (or as revised).

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**Engineering Technology**

The College of Engineering offers a program leading to the degree of Bachelor of Engineering Technology to serve educational needs in engineering-related areas. The program normally provides for two years (90 min. credit hours) of study at the University of South Florida following two years (90 credit hours) of successful study in an engineering technology program which has lead to an Associate of Science degree. Many programs of the State System of Community Colleges uniquely mate with this program.

■ **BACHELOR OF ENGINEERING TECHNOLOGY (ETK)**

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

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

- Engineering Technology ........................................ 80
- Management & related studies .................................. 30
- Liberal Arts, Social Science and Electives .................. 48
- Mathematics and Science ........................................ 22
- Total ........................................................................ 180

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

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

- Air Conditioning Engineering Technology
- Computer Systems Technology
- Construction Technology
- Electrical Power Engineering Technology
- Electronics Technology
Industrial Engineering Technology
Management 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.

Students entering this program will have their transcript annotated as to the institution from which their technical training was received as well as their technical specialization as designated by that institution.

Admission

In general, students are expected to have successfully completed an Associate of Science degree in Engineering Technology at a community college or to have accomplished equivalent work. 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, the student will be admitted to USF. Students are 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.

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

Further information is available from:
Coordinator for Engineering Technology
USF St. Petersburg Campus
830 First Street, South
St. Petersburg, Florida 33701

or
Coordinator for Engineering Technology
College of Engineering
University of South Florida
Tampa, Florida 33620

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 include ESC 301, 302, 303, 304, 307, 308, 309, 310, 311, 312, 501, 502, 503, 551, and 651. The courses designed for the engineering and physical science students include EGB 231, 232, EGS 423, 424, 425, 427, 533, 620, 621 and 622.
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 life 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 extra-curricular 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 Art 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.

**SYCOM**

The Systems Complex for Studio and Performing Arts — SYCOM — is an art-technology facility for innovative teaching, creative research and performance applications. SYCOM is a process of five functions: 1) Digital Studio, 2) Analog Studio, 3) Video Studio, 4) Real-Time Applications, and maintaining and coordinating the programs, 5) Systems Research Lab.

Integral to SYCOM is the PDP 11/10 computer, providing efficiently diverse means for audio and video synthesis in studio and real-time contexts. In addition to these direct applications, active systems research is sponsored in computer-assisted music composition and graphic/spatial design.

Throughout SYCOM the artist-researcher has access to state-of-the-art equipment including: for the sonic arts alone, three major electronic music synthesizers, eight and fourteen track tape recorders and 16-channel quad mixing.

SYCOM serves all areas of the College as an ideal meeting place for student and faculty artists and scientists, whose interaction stimulates the progress essential to creative teaching and research in art-technology.

**Interdisciplinary Study**

In spite of the fact that an undergraduate interdisciplinary degree program is not formally offered in the College of Fine Arts, it is nevertheless possible for a student to pursue what
amounts to an interdisciplinary program of study in the College when the student is able (or when he sees fit) to utilize the 35 hours of Free Electives allowed him toward that end.

To suggest an example, an arts-oriented student may be equally (or almost equally) interested in two of the four undergraduate degree disciplines offered by the respective departments in the College of Fine Arts — Art, Dance, Music, Theatre Arts (the Bachelor of Art degree, in each case). To further extend the example, the student might complete the major course requirements in the Art Department (and, with other requirements met, receive the B.A. degree in Art) and at the same time utilize all of his 35 Free Elective hours for course work in the Music Department. A student majoring in Art might also divide his 35 Free Elective hours between the Departments of Music, Theatre, and Dance for an even broader interdisciplinary approach. A student wishing A.A. degree involvement in more than one area in the College should consult with his major department adviser or with the Coordinator of Advising in the College to determine if an interdisciplinary sequence of study might be tailored to suit his particular needs.

**BACCALAUREATE LEVEL DEGREE PROGRAMS**

**Admission to the College**

A freshman student may elect to enter the College of Fine Arts as a potential major in one of the four departments as early as his initial entry into the University, provided that he has completed his first advisory period with the Division of University Studies. At that time, the new freshman has to correctly indicate his College and major choice. However, any student in the University in good standing, at whatever level, at any time (even in the middle of a quarter), can apply to change from another major or Undecided to a major in the College of Fine Arts irrespective of and without affecting course work in progress. The student desiring to make this change must acquire his advising records from his present adviser and take them to the College of Fine Arts’ advising office, where new records will be initiated and maintained upon acceptance.

Transfer students and students from other units of this University with previous college or university fine arts course credits (art, dance, music, theatre) must have such courses evaluated by meeting the appropriate portfolio or audition requirements when they seek admission to the College of Fine Arts. These students are urged to make early arrangements for any necessary portfolio reviews or auditions, as well as advising appointments, since these must take place prior to course scheduling and registration. Further, students are required to take their own copies of their transcripts showing all previous college or university course work to advising, portfolio review and/or audition appointments. Additional information may be obtained and appointments may be made by telephoning or writing the College’s advising office or the office of the department of particular interest.

**Programs Leading to the Baccalaureate Degree**

The College of Fine Arts has programs leading to the Bachelor of Arts degree in the following fields:

<table>
<thead>
<tr>
<th>Program</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art</td>
<td>ART</td>
</tr>
<tr>
<td>Dance</td>
<td>DAN</td>
</tr>
<tr>
<td>Music</td>
<td>MUS</td>
</tr>
<tr>
<td>Theatre Arts</td>
<td>TAR</td>
</tr>
</tbody>
</table>

**Advising in the College**

The College of Fine Arts operates a central advising office located in the Fine Arts Building, staffed full time by the Coordinator, his assistant, and a secretary. This central advising facility is open daily from 8:00 a.m. to 12:00 noon and 1:00 p.m. to 5:00 p.m. throughout the University work year. It maintains the records of all major students in the College (art, dance, music, theatre) and provides ongoing day-to-day academic advising and assistance to all students who seek it whether they are majors in the College or are potential new students or transfers from outside the University or from within. Upon admission to the College, the student with a declared major 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.

**Course Availability in the College**

Any student in the University may take any course in any one of the various programs in the College appropriate to his level when he has the prerequisites for the course and when there is a vacancy in the course at the time of the student’s registration.

**Graduation Requirements**

The College of Fine Arts currently offers one undergraduate degree, the Bachelor of Arts (B.A.), attainable in the Departments of Art, Dance, Music and Theatre. These requirements are referred to on pages 32-33 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. **Departmental Requirements:** Completion of a major in a subject or an integrated major involving several subjects with a minimum of 63 credit hours. Waiver for credit of up to 18 credit hours is possible by demonstration of competence. Review is by Faculty Committee.

3. **Free Electives:** To allow the student the opportunity to choose between a greater breadth and a greater depth of experience, 35 credit hours of free electives are permitted, only 28 hours of which may be taken in the department of the student’s major.

4. **Special Requirements:** At the discretion of the departments of the College, major students may be required to take up to 22 hours of courses outside the major department which are deemed necessary to meet the particular needs of individual students engaged in special areas of study in that department. Of these, at least 9 hours must be taken in one or more of the other departments of the College.

5. **General Distribution Requirements:** The remaining 60 credits of the student’s 180 credit hour degree requirement may be satisfied by completing the University’s General Distribution Requirement as explained on page 31 of this catalog. This requirement may also be satisfied by the A.A. degree holder from a Florida Junior or Community College or from another State University with General Education requirements met, the General Education requirements being broadly acceptable as the equivalent of the General Distribution requirement. (In this case, the College of Fine Arts will accept a total of 90 quarter transfer hours from the A.A. degree holder.) The A.A. degree is in no way a requirement for acceptance into the College of Fine Arts (or into any one of its upper level degree
programs), or a requirement for graduation from the University.
6. Work transferred from other schools will not be included in the grade point ratio computed for graduation. (However, graduation with honors requires a 3.5 average in USF work and also in any previous college work attempted.)
7. To be eligible for graduation, a student must earn 45 of the last 90 hours of credits in residence at the University of South Florida. However, any course work to be taken and any credits to be earned outside of the University to be applied toward graduation from the University must have prior specific approval in writing from the student’s academic major adviser, from the Chairman of the student’s major department, from the Coordinator of Advising for the College, and from the Dean of the College.
8. Completion of a senior appraisal is required. This is administered free to graduating seniors each quarter.

Time Shortened Degree Programs
Each undergraduate degree program in the College of Fine Arts (the B.A. degree in Art, Dance, Music and Theatre Arts) is designed in such a manner that students are afforded an opportunity to complete a minimum of twenty-five percent (25%) of the degree requirements, exclusive of transfer credit accepted, through acceleration mechanisms.

ACCELERATION MECHANISMS FOR PROGRAM COMPLETION
1. Achievement of specified performance levels on appropriate recognized standardized, institutional, or departmental examinations. (See CLEP on page 29 of this Bulletin. Also see “Departmental Requirements” under “Graduation Requirements” on page 76 of this Bulletin.)
3. Dual Enrollment in a Community College or University prior to graduation from High School or Community College; or...
4. Any combination of the above acceleration mechanisms.

FACILITATION OF ACCELERATION
1. Credit will be awarded for specific courses for which competency has been demonstrated by successful passage of an exemption or waiver examination. Students will not be exempted from courses without the award of credit if competencies have been so demonstrated.
2. The University has established a program of early admission for public school high school seniors qualifying for such a program. See page 11 in this Bulletin for complete information pertaining to the procedures and criteria for such admission.
3. Students interested in majoring in one of the Fine Arts, applicants or potential applicants, as well as accepted major students (in either Art, Dance, Music or Theatre Arts) utilizing the approved acceleration mechanisms, will receive advising and guidance services through the College Advising Office in FAH 120. See “Advising in the College” on page 76 of this Bulletin.

Dean’s List Awards
The following are criteria for Dean’s List Awards to students majoring in The College of Fine Arts:

1. The student must be enrolled for and successfully complete a minimum of 12 USF quarter credit hours of course work during a given quarter in an undergraduate degree seeking program to be eligible for that quarter.
2. A minimum of 10 USF quarter credit hours in the student’s course work, out of the above 12, must be undertaken for and must receive a conventional letter grade (not S/U), optional or required, initially or ultimately, under one system or another.
3. No restriction other than above will be placed on courses graded S/U.
4. “I” grade (incomplete) limitations:
   a. The Dean’s List may not be achieved retroactively. Example: A student undertakes 13 quarter credit hours under the conventional letter grade system in a given term. He receives a five hour “A” and a four hour “A” and a four hour “I” (incomplete). The student would initially disqualify due to the fact that the minimum of 12 successfully completed hours was not met. Even if the student should complete the incomplete work as early as the next quarter, and even if the “I” grade were to be replaced by an “A” grade, the student would not be recognized for the Dean’s List Awards retroactively.
   b. The Dean’s List may not be achieved by a student for graded work in any given quarter for whom an “I” grade exists, unresolved, for any previous quarter.
5. The Dean’s List will be limited to the top five percent of declared major undergraduate students in each department in the College of Fine Arts each quarter.

S/U Grading in the College
1. Non-majors enrolled in college major courses may undertake such courses on an S/U basis with instructor approval.
2. S/U grading agreements between instructors and students must be carried out in the form of written contracts.
3. The timetable for the completion of an S/U contractual agreement between instructor and student in any given Quarter will be determined solely by the instructor.
4. Credits earned by a non-major student with an “S” grade will not count toward the student’s 63 hour minimum major course graduation requirement should that student ultimately decide to become a major student in one of the four departments in the College. Instead, such credits earned with an “S” grade will be assigned to the student’s required-for-graduation 35 hour Free Elective category.
5. Although Fine Arts major students may take up to 28 hours of course work in their major to be used as Free Electives, Fine Arts students are not entitled to the S/U grading option in courses taken in their major subject area, even when specifically used or intended to be used as Free Electives.
6. In the College of Fine Arts, the only S/U graded courses available to a major student in his major subject area are those curriculum allowable courses designated S/U (that is, S/U only).
7. With the exception of such courses as may be specifically required under the College’s “Special Requirements” regulation, and such specific courses that may be required in the General Distribution area, there will be no limitation whatsoever placed on student majors in the College as to the number of courses taken S/U outside of his major department, nor upon the number of hours that may be taken S/U outside of the major department, nor upon the number of courses or
hours that may be taken S/U outside the major department during any given Quarter of study.

**Contracts and Permission Slips**

All Directed Studies courses in the College and all variable credit courses in the College require contracts between students and instructors describing the work to be undertaken by the students and specifying the credit hours. These contracts are to be completed with 4 copies and signed by the student, the instructor and the Department Chairman. The student and the instructor each retain a copy, with one copy going to the College Advising Office. It is the student's responsibility to obtain the necessary signatures and make the required distribution of all copies. Important: the student must have his/her signed copy of a contract at the time of registration.

**Permission Slips:** Admission into some courses is possible only by consent of instructor (CI), consent of chairman (CC), or by students and specifying the credit hours. These contracts are to be completed and instructors describing the work to be undertaken by the students and specifying the credit hours. These contracts are to be completed with 4 copies and signed by the student, the instructor and the Department Chairman. The student and the instructor each retain a copy, with one copy going to the College Advising Office. It is the student's responsibility to obtain the necessary signatures and make the required distribution of all copies. Important: the student must have his/her signed copy of a contract at the time of registration.

**Additional Contracts:** The College of Fine Arts requires that any S/U grading agreement entered into between student and instructor be formalized by a contract in quadruplicate signed by the student and the instructor. Distribution: one copy retained by the instructor, one copy for the student, one copy delivered to the department office and one copy delivered to the College Advising Office.

I Grades (Incompletes) must be contracted for by mutual agreement between student and instructor, with the contract describing specifically the amount and nature of the work to be completed for the removal of the incomplete grade. This contract additionally clearly specifies the date that the work will be due (within legal limits) for grading. Both the student and the instructor must sign this contract and the distribution of the 4 copies will be the same as with S/U contracts.

**MASTER'S LEVEL DEGREE PROGRAMS**

The College of Fine Arts offers two master's level degree programs, the Master of Fine Arts (M.F.A.) in the Art department and the Master of Music (M.M.) in the Music department. The general University admissions requirements for graduate degree-seeking status and the regulations of the University governing graduate study are described beginning on page 39 in this bulletin. The general University application procedures are explained on page 39. When all of the information required for general acceptability into the University is received in the Graduate Admissions Office, the information gathered by that office will be forwarded to the appropriate department in the College of Fine Arts where the applicant's final acceptance or rejection is actually determined.

**Master of Fine Arts Degree (Art)**

For consideration of acceptance into the Master of Fine Arts degree program, it is required that the applicant submit a portfolio of his work directly to the Art department. The portfolio usually consists of 35mm slides for convenience in shipping, handling and presentation. Legitimate exceptions to this "rule" are naturally acceptable, such as when the applicant's work is comprised of film or video tape, or in such other obvious cases when the nature of the work does not lend itself to slides, or when the work can be displayed or presented more conveniently and/or more effectively by delivering it personally to the Art department, or when the work itself and/or additional work is requested by the Art department to be sent or brought in. The "portfolio" should indicate a competent level of involvement in an area (or areas) of visual exploration and, when mailed, must be posted directly to the Coordinator of Graduate Studies, Art department, College of Fine Arts, University of South Florida, Tampa, Florida 33620, with a self-addressed return label and return postage.

A personal interview with an applicant is sometimes (though infrequently) requested by the Art department when it is considered necessary (and reasonable) in order to arrive at a final decision regarding the applicant's acceptability into the graduate program. Travel in connection with any interview, requested by the Art department or by the applicant, is naturally at the applicant's own expense. An applicant who would seek consultation with the Coordinator of Graduate Studies, with the Art Graduate Committee, or with any other member of the Art department for whatever reason and for whatever date or time would do well to write or telephone for an appointment in advance of his arrival on campus if at all possible.

The requirements for the M.F.A. degree are generally outlined in the section "Curricula and Programs" under Art, on pages 79-80. The 600 level courses listed under "Graduate Students Only" on page 123 are courses limited to students in the M.F.A. program and normally account for a great majority of the 72 Quarter hour minimum the graduate student undertakes. Most of these courses, it will be noted, are repeatable. The graduate student is not restricted to 600 level courses, however. Courses at the 500 level are acceptable for credit towards the M.F.A. degree when taken as a part of a planned and approved degree program. Naturally, the graduate student must meet all the stated prerequisites for any course into which he wishes to enroll.

*Fine Arts-Humanities Building*
Master of Music Degree

The applicant seeking acceptance into the Master of Music Degree program must meet the University's general admissions requirements and make formal application for general University acceptability with the Graduate Admissions Office. Concurrently, or even before, but certainly not appreciably later, the applicant must arrange to fulfill the specific acceptability requirements in the Music department (of the College of Fine Arts). Full acceptance can not be given until the applicant satisfies: (1) performance audition, (2) placement examinations in music theory-literature and piano, and (3) completion of the Graduate Record Examination Advanced Test in Music. (See page 80 for "Requirements for the M.M. Degree" under "Music".) Dates and times for auditions and examinations may be obtained by telephoning or writing the Music department (FAH 204), College of Fine Arts. Persons to contact directly are the Chairman of the Music department and the Graduate Music advisor, or the Coordinator of Graduate Studies (College of Fine Arts) for referral.

For courses in the music curriculum available "For Seniors and Graduate Students", see page 199. Courses "for Graduate Students only" are listed on page 200.

SYCOM

The applicant for either of the graduate programs in the College of Fine Arts is urged to refer back to page 75 for the description of SYCOM, the Systems Complex for Studio and Performing Arts. SYCOM is conceived to be a meeting lab for sculptors, composers, actors, dancers, film-makers, poets and other creative types, and is available to faculty, students at all levels, and visiting artists. SYCOM provides for the broadest and the most intensive kind of creative interaction out of which new art forms and media are allowed to develop and thrive.

Interdisciplinary Study

Upon consultation with the Coordinator of Graduate Studies, the Chairmen and the Graduate Advisers in the departments involved, and the Dean of the college of Fine Arts, an interdisciplinary sequence of study within the College may be tailored to suit the direction and the needs of the individual graduate student.

Assistantships and Fellowships

Applicants to a graduate degree program and students already accepted into a graduate degree program in the College who would desire a graduate teaching fellowship or a graduate fellowship should contact directly the Chairman of the department in which they are, or will be, principally involved. Teaching assistantships are rarely granted to beginning graduate students. Graduate fellowships, however, are available on a yearly basis to both new and continuing graduate students and are competitively awarded.

PROGRAMS AND CURRICULA

■ ART (ART)

Requirements for the B.A. Degree:

The art curriculum is designed to develop the student's consciousness of aesthetic and ideological aspects of art and its relationship to life and to assist students in the realization of personal ideas and imagery. Most B.A. recipients interested in college teaching, museum or gallery work, fine or commercial studio work pursue the extended discipline and experience offered at the graduate level.

Although the 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, film, video, drawing), history or theory.

Art Studio Concentration:
The following are the requirements for a studio major:

1. ART 201, ART 202 and ART 301, each with a grade of "C" or better.
2. Minimum of 12 hours of 300-level studio courses.
   - ART 201 is a prerequisite to all two-dimensional media courses;
   - ART 202 is a prerequisite to all three-dimensional courses;
   - ART 301 is prerequisite to all 300-level studio courses.
3. Minimum of 12 hours of 400-level studio courses and/or technique seminars. PR: 300-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 prerequisite except for appropriate level. ART 476 20th Century Art History, is required of all art majors.
5. ART 453, Art Senior Seminar.
6. Additional art courses for a total of 63 credit hours.
7. Admission to all 500-level studio courses is by Consent of the Instructor.

Art History Concentration:

Requirements are as follows:

1. ART 201 (4), ART 202 (4), and ART 301 (2).
2. Minimum of 20 hours of 400-level art history courses. ART 476 is required.
3. Seminar in the History of Art History (offered under ART 573. PR: 16 hours in art history.
4. Minimum of 16 hours of ART 491 (2), and/or ART 570 (4).
5. ART 453 (3), ART Senior Seminar.
6. Additional art courses to total 63 credit hours.
7. Proficiency in at least one foreign language.

Special Requirements for All Art Majors:

At the discretion of the Art Department, major students may be required to take up to 22 hours of courses outside the Art Department which are deemed necessary to meet the particular needs of individual students engaged in special areas of study in that department. Of these, at least 9 hours must be taken in the other departments of the College of Fine Arts. 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.

Requirements for the M.F.A. Degree:

General requirements for graduate admission are given on page 39.

Applicants to the Master of Fine Arts Degree program are also required to submit three letters of recommendation, a letter of intent, and 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.
Members of the immediate family of departmental faculty are not eligible to enter the graduate degree program.

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 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 toward 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 full-time 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 (DAN)

The dance curriculum is designed for students interested in dance as an art form. Their objectives may be to continue their education in graduate school, to teach in a college or a private school, or to pursue a career as a performer and/or choreographer.

Requirements for the B.A. Degree:

- Modern majors are required to take DAN 201 (3), 202 (3), 203 (3), 301 (3) (six credits), 302 (3) (six credits), 303 (3), 311 (1), (three credits), 313 (3), 401 (3) (nine credits), 403 (3), 413 (3), 453 (3), 501 (5) (nine credits), 503 (3), 513 (3), for a total of 63 hours.
- Ballet majors are required to take DAN 201 (3), 202 (3), 203 (3), 301 (3) (six credits), 302 (3) (six credits), 303 (3), 311 (1) (three credits), 312 (1) (six credits), 313 (3), 402 (3) (nine credits), 413 (3), 453 (3), 502 (3) (nine credits), 513 (3), for a total of 63 hours.
- Entrance to all technique courses will be by jury examination.
- Dance majors are also required to take 35 hours of free electives. Of this time, a maximum of 28 hours may be in the Dance Department.
- Special requirements for dance majors come to 22 hours. Nine hours must be taken in the other departments of the College of Fine Arts. The remaining 13 hours will be assigned to the student based on his individual needs as determined by the department.
- The University’s General Distribution requirement consisting of 60 hours may be found on page 31. The above requirements total 180 hours.
- Senior dance majors are required to choreograph and perform in a senior dance program.
- Prospective students must contact the Dance department to arrange for an audition prior to registration. Beginning courses may only be repeated three times. A student must audition each quarter to stay at his present level or to advance to a higher level.
- Students should refer to pages 76-77 for graduation requirements.

MUSIC (MUS)

The music curriculum is designed for those students gifted in the performance and/or composition of music. Candidates for a major in music are required to pass an entrance examination 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 successfully the secondary piano requirements as defined by the music faculty, (2) present a partial public recital during their junior year, (3) present a complete 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 63 quarter hours is required, distributed as follows: 24 hours in Music Theory-Literature and 36 hours in applied music or 36 hours in Composition for composition majors (a minimum of three quarters at the 500 level is required), and MUS 453. 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 42. In addition, the applicant for the Master of Music degree 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 adviser 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 two consecutive quarters.

THEATRE ARTS (TAR)

Requirements for the B.A. Degree:

All students must take TAR 201 (2), 211 (4), 212 (4), 213 (4), 311 (4), 321 (4), 339 (4), 503 (6), and 553 (4), plus one from TAR 430 (4), 431 (4), 432 (4), 434 (4), 437 (4). Depending upon choice of concentration, additional requirements are — performance majors: TAR 410 (4), 411 (4), 412 (4), 511 (4), 514 (4), and either 512 (4) or 513 (4); technology and design majors: TAR 421 (2), 422 (2), 423 (2), plus any three of TAR 420 (2), 424 (2), 425 (2), 427 (2), 428 (2), 429 (2), and choice of either all of TAR 521 (4), 522 (4), 523 (4) or all of TAR 524 (4), 525 (4), 526 (4), or all of the following: TAR 527 (2), 528 (2), 571 (4), 573 (2), 529 (2).

When the student makes an initial declaration of major, a reading list, comprised of plays, books and articles which the department sees as a necessary part of any theatre student’s general knowledge, will be presented. The student will be expected to read independently from this collection guided by the faculty and to complete it before graduation.

Special Requirements for All Theatre Majors:

At the discretion of the Theatre Arts Department, major students may be required to take up to 22 hours of courses outside the Theatre Arts Department which are deemed necessary to meet the particular needs of individual students engaged in special areas of study in that department. Of these, at least 9 hours must be taken in the other departments in the College of Fine Arts.

Students should refer to pages 76-77 for graduation requirements.
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.

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.

BACCALAUREATE LEVEL DEGREE PROGRAMS

Admission to the College

Admission to the College of Language and Literature is open to all students who have been accepted to the University of South Florida, who are in good academic standing (see page 28.) and who have declared themselves a major in a particular field within the College.

For entrance into the College, each undergraduate student must complete an application in the Office of the Coordinator of Advising. The student will then be assigned to an adviser from the major field and will be counseled in the selection of courses which will fulfill his/her educational needs and satisfy the requirements for the Bachelor of Arts degree.

General Requirements for Degrees

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

- American Studies (AMS)
- Anthropology-Linguistics (ANL)
- Classics and Ancient Studies (CLS)
- Classics and Modern Language (CLM)
- English (ENG)
- English-Linguistics (ENL)
- Foreign Language-Linguistics (FLL)
- French (FRE)
- German (GER)
- Humanities (HUM)
- Italian (ITA)
- Liberal Studies (ALA)
- Mass Communications (COM)
- Modern Languages, combination (MOD)
- Philosophy (PHI)
- Religious Studies (REL)
- Russian (RUS)
- Spanish (SPA)
- Speech Communication (SPE)
- Speech Communication-English (ENS)
- Speech Communication-Theatre Arts (STA)

A minimum of 180 quarter hours credit with an overall average of 2.0 or better in all work done at the University of South Florida must be completed in order to earn the Bachelor of Arts degree. The degree program must include the completion of 1) General Distribution Requirements, 2) a departmental major, and, 3) elective courses.

1. General Distribution Requirements

This work comprises a total of sixty (60) quarter credits and may be spread over the normal four-year degree program. The requirement includes:

- Eight (8) hours credit in English Composition
- Eight (8) hours credit in Humanities/Fine Arts
- Eight (8) hours credit in Mathematics/Quantitative Method
- Eight (8) hours credit in Natural Sciences
- Eight (8) hours credit in Social and Behavioral Sciences

The remaining twenty (20) hours are to be divided among the last four areas at the discretion of the student and adviser.

2. The Departmental Major

A departmental major consists of a concentration of course work in a specific department. The number of credit hours required for a major will vary from department to department. There must be at least a cumulative grade point ratio of 2.0 in this major for all USF work passed. At least 120 quarter hours must be earned in courses outside the student's major.

3. Elective Courses

Of the minimum of 180 quarter hours required for a Bachelor's degree in the College of Language and Literature, sixty (60) are normally earned in general elective courses. This number varies with the credit requirement for the major and should be treated as an average figure.

Physical Education credit earned before Spring Quarter (III) 1972, will not be counted toward the 180 quarter hours required for the degree. However, beginning with Spring Quarter (III) 1972, a student may take up to four elective PE credits to be counted toward his 180 hours for graduation. No transfer PE credit will be accepted by the College of Language and Literature.

Work transferred from other schools will not be included in the grade point ratio computed for graduation. However, graduation with honors requires a 3.5 average in USF and all previous college work attempted.
GRADUATE LEVEL DEGREE PROGRAMS

Master's Degree Programs
The College of Language and Literature offers graduate programs leading to the Master of Arts degrees in the fields of:
- English (ENG)
- French (FRE)
- Linguistics (LIN)
- Philosophy (PHI)
- Spanish (SPA)
- Speech Communication (SPE)

The University requirements for graduate work at the Master's level are described on pages 42-43. The departmental requirements are listed under the appropriate program descriptions.

Doctor of Philosophy
The Department of English offers a program leading to the degree of Doctor of Philosophy. The University requirements for graduate work at the Doctor's level are given on pages 43-44. Specific requirements for the degree are listed under the English department.

NON-DEGREE PROGRAMS

Certificate of Concentration
The Certificate of Concentration is a short-term goal program for adults who are interested in taking a series of courses in a selected area of Language-Literature but are not necessarily interested in a degree. The courses, on an undergraduate level, are offered to adults who may or may not have a degree. The Certificate of Concentration is awarded when a minimum of 25 hours has been completed in a given area or in a combination of areas. (In a combination of areas, 12 hours must be in one particular area.) It is a program that may be taken on a satisfactory-unsatisfactory or letter grade basis and may be applied toward an undergraduate degree in Language-Literature. The Certificate of Concentration is designed for registration in the Special Student Category rather than the regular route of admission and registration.

Interdisciplinary Language-Literature
Interdisciplinary Language-Literature (LLI) is the prefix under which courses of an interdisciplinary nature not housed in a specific department or program within the College are offered. The primary objective of the courses has been to aid the student in expanding his understanding of the interrelations among the various disciplines.

History of Ideas
The program in the History of Ideas offers elective courses at the upper and graduate levels in the interdisciplinary study of ideas fundamental in Western cultural history—e.g., Progress, Utopia. The methods of philosophic and linguistic analysis are employed to the ends: (1) discerning how fundamental unit-ideas grow and develop logically and historically; and (2) discerning the scope of influence such ideas, once developed, may have in relation to other ideas and to action.
**PROGRAMS AND CURRICULA**

### AMERICAN STUDIES (AMS)

The American Studies major is designed for those students interested in studying the relationships among the important elements which shape American civilization. American Studies is a multidisciplinary program drawing not only upon courses carrying the AMS prefix, but also upon appropriate offerings from a variety of departments.

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

**Requirements for the B.A. Degree:**

<table>
<thead>
<tr>
<th>Required Core Courses</th>
<th>Required Supporting Courses (12 cr. hrs.) (no more than one course from each department)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMS 301 (5)</td>
<td>AMS 401 (4)</td>
</tr>
<tr>
<td>AMS 311 (5)</td>
<td>AMS 402 (5)</td>
</tr>
<tr>
<td>AMS 312 (5)</td>
<td>AMS 403 (5)</td>
</tr>
<tr>
<td>AMS 313 (5)</td>
<td>AMS 331 (5)</td>
</tr>
<tr>
<td>AMS 491 (5)</td>
<td>AMS 332 (5)</td>
</tr>
<tr>
<td>AMS 492 (4)</td>
<td>AMS 333 (5)</td>
</tr>
<tr>
<td>AMS 493 (4)</td>
<td>AMS 334 (5)</td>
</tr>
</tbody>
</table>

Related Electives (21 cr. hrs.)

(No more than 9 hours from one department)

Appropriate courses to be selected from the following departments in consultation with an American Studies adviser: Afro-American Studies, Anthropology, Dance, Economics, English, Geology, Geography, History, Philosophy, Political Science, Religious Studies, Sociology, Speech Communication, and Interdisciplinary Social Science.

### CLASSICS AND ANCIENT STUDIES (CLS/CLM)

**Requirements for the B.A. Degree:**

The Department offers a major in Classics and Ancient Studies (CLS) leading to the B.A. degree. Within this major, the student has a choice of four sequences: I. Latin, II. Classics (Latin-Greek), III. Ancient Studies, IV. Classical Civilization. Sequences I, II, and III consist of a core sequence of 22 credits plus one of three alternative sequences of 26 credits as follows:

<table>
<thead>
<tr>
<th>Required Core Sequence</th>
<th>Alternative Sequence I (26 cr. hrs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLS 301 (3)</td>
<td>CLS 321 (5)</td>
</tr>
<tr>
<td>CLS 302 (3)</td>
<td>CLS 371 (4)</td>
</tr>
<tr>
<td>CLS 303 (3)</td>
<td>CLS 401 (3)</td>
</tr>
<tr>
<td>CLS 411 (3)</td>
<td>CLS 402 (3)</td>
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<tr>
<td>CLS 412 (3)</td>
<td>CLS 403 (3)</td>
</tr>
<tr>
<td>CLS 413 (3)</td>
<td>CLS 517 (4)</td>
</tr>
<tr>
<td>CLS 529 (4)</td>
<td>CLS 571 (4)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Alternative Sequence II</th>
<th>Alternative Sequence III (26 cr. hrs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLS 321 (5)</td>
<td>CLS 331 (3)</td>
</tr>
<tr>
<td>CLS 331 (3)</td>
<td>CLS 332 (3)</td>
</tr>
<tr>
<td>CLS 332 (3)</td>
<td>CLS 333 (3)</td>
</tr>
<tr>
<td>CLS 333 (3)</td>
<td>CLS 341 (3)</td>
</tr>
<tr>
<td>CLS 354 (4)</td>
<td>CLS 342 (3)</td>
</tr>
<tr>
<td>CLS 355 (4)</td>
<td>CLS 343 (3)</td>
</tr>
<tr>
<td>CLS 527 (4)</td>
<td>CLS 527 (4)</td>
</tr>
<tr>
<td></td>
<td>CLS 583* (4)</td>
</tr>
</tbody>
</table>

Note: Options I and II may be combined for thorough coverage of the entire Anglo-American literary tradition. In that case, the requirement of ENG 300 specified in Option II would be waived.

### ENGLISH (ENG)

**Requirements for the B.A. Degree:**

The program in English provides a flexible curriculum that recognizes the individual interests of students and offers a wide variety of professional choices. Designed to provide a logical, balanced, and complete sequence of courses in English studies, the curriculum gives the student a choice of seven options (exclusive of English-Education sequences, described under the section for the College of Education), as follows:

I. **English and American Literature, Early to Modern.** This option is designed to prepare undergraduates for advanced study in the profession. It emphasizes more recent literature, beginning at the 18th century and coming up to the present. Its core requirement of 40 hours consists of ENG 300 (5), ENG 314 (5), ENG 315 (5). ENG 330 (5), and ENG 331 (5). Beyond the core requirement of 40 hours, to complete the major the student is free to select a minimum of 15 hours and a maximum of 25 hours of additional courses.

II. **English and American Literature, Enlightenment to the Present.** Like option I, this option is designed to prepare undergraduates for advanced study in the profession. It focuses on the literature of England from the earliest period through the 19th century and on the "classical" period of American literature. Required courses include ENG 311 (5), ENG 312 (5), ENG 313 (5), ENG 314 (5), and ENG 315 (5). ENG 330 (5), and ENG 331 (5). Beyond the core requirement of 40 hours, to complete the major the student is free to select a minimum of 10 hours and a maximum of 20 hours.

III. **World Literature.** This option is designed to meet the interest of those students who are interested in a scope of literary study that includes not only Anglo-American literature but the literature (in translation) of other nations of the Western world. Its core requirement of 35 hours consists of ENG 300 (5), ENG 301 (5), ENG 302 (5), ENG 340 (5), ENG 341 (5), ENG 342 (5), and ENG 343 (5). To complete the major the student is
free to select a minimum of 15 hours and a maximum of 25 hours. Students in this option who are interested in doing graduate work in comparative literature should develop a high degree of competency in at least one language.

IV. General Literature. This option, somewhat innovative, reflects the current interest in the relationships between literature and other aspects of contemporary culture and is designed to meet the desire of some students for a more generalized, culturally oriented approach to literature than traditional literary studies customarily provide. The wide-ranging eclectic survey consists of a core requirement of 35 hours, as follows: ENG 300 (5), ENG 301 (5), ENG 302 (5), ENG 310 (5), ENG 360 (5), ENG 450 (5), and one course from ENG 340 (5), ENG 341 (5), and ENG 342 (5). The student has available a minimum of 15 hours and a maximum of 25 elective hours.

V. American Literature. This option focuses upon our national literature and reflects our own society, past and present. This emphasis is justified by the fact that much of the major literature written in English during the 20th century has been produced by Americans. Also pertinent is the current interest in the literature of Black Americans and American Indians. Core requirements of 35 hours for this option include ENG 300 (5), ENG 301 (5), ENG 330 (5), ENG 331 (5), ENG 332 (5), ENG 430 (5), and ENG 432 (5). In addition, the Option V major has the minimum of 15 and maximum of 25 elective hours available.

VI. Advisory Option. This option is designed for those students who have the maturity, independence, intellectual curiosity, and eclectic interests to want to design their own programs. Core requirements are ENG 300 (5), ENG 301 (5), and ENG 302 (5), with electives totaling between 35 and 45 credit hours. Students in this option must have prior consent of an English adviser at each stage of planning their programs.

VII. There is, in addition, a seventh option, a new major emphasizing writing: Creative Writing. This represents a new option for students, and is designed for aspiring writers of fiction or poetry. The core requirement for the fiction option consists of 30 hours, and includes ENG 351 (5), ENG 353 (5), ENG 450 (5), ENG 451 (5), ENG 437 (5) or ENG 438 (5), and ENG 435 (5) or ENG 436 (5). To complete the fiction option, the student is free to select a minimum of 20 hours and a maximum of 30 hours from among departmental courses. The core requirement for the poetry option consists of 25 hours, and includes ENG 216 (5), ENG 352 (5), ENG 452 (5), ENG 441 (5), and ENG 451 (5). To complete the poetry option the student is free to select a minimum of 25 hours and a maximum of 35 hours from among departmental courses. Among the elective hours, the major in poetry or fiction may choose writing workshops (ENG 451 and ENG 452) as needed.

Requirements for the M.A. Degree:

The M.A. in English is designed primarily to train college teachers. The program includes study of college teaching, as well as the study of literature.

Requirements for Admission. An average of B in the last two years of undergraduate work (a GRE total score of 1000 may be substituted for this requirement). It may be necessary to require students who have not been English undergraduate majors to take extra undergraduate courses before graduate admission to English. Other exceptions may be made by the Graduate Committee of the Department of English.

Course Requirements.
1. ENG 693 (this must be the first course taken)
2. Forty-five credit hours, which must include
   a. ENG 685 (this must be the second course taken)
   b. One of the following courses as required by the adviser: ENG 601, ENG 602, or ENG 453
   c. One of these: ENG 610, ENG 616, ENG 620, or ENG 625
   d. One of these: ENG 630, ENG 640, or ENG 645
   e. One of these: ENG 650 or ENG 660
   f. ENG 683

Options:
It is possible, at student option, to take ENG 699 (thesis) in place of one of the elective courses. A student may transfer from another university up to 9 hours of graduate credit. He may take up to 10 hours of credit in another department (the courses to be approved by the Department of English Graduate Committee).

Comprehensive Examination. This examination will be based on a list of literary works given to each student as he commences his graduate studies. The student will be asked to write for one hour on four of the following five areas:
1. British literature before Shakespeare
2. British literature Shakespeare through Sterne
3. British literature Johnson through Wilde
4. American literature before 1900
5. Twentieth Century American and British literature

Students will be graded I (Excellent), 2 (Good), 3 (Satisfactory), or 4 (Unsatisfactory). The Department will recommend students with a grade of 1 or 2 for admission to the Ph.D. program. A grade of 3 will satisfy the examination requirement for the M.A. degree; a grade of 4 will not.

Public Presentation. Each student will be required to present, before graduate students and faculty, a discussion of a major work or idea from the area he has not written upon for the comprehensive examination outlined above. The performance will be evaluated by the student's ENG 685 professor and two other professors.

Thesis. Thesis optional (See Options, above).

Requirements for the M.A. Degree in Junior College Teaching:

This program is intended for those who plan to teach in junior and community colleges. It emphasizes lower-level college teaching.

Requirements for admission. See M.A. program above.

Course work.
1. EDR 509
2. EDH 651
3. EDH 653
4. EDC 691 (Internship if required—waivers must be endorsed by the College of Education)
5. The following English courses:
   a. ENG 601; or ENG 602 (if the student is an experienced teacher)
   b. ENG 686 (offering in advanced composition for teachers only)
   c. One of these: ENG 610, ENG 616, ENG 620, or ENG 625
   d. One of these: ENG 630, ENG 640, or ENG 645
   e. One of these: ENG 650 or ENG 660
   f. Five hours of English electives

Comprehensive Examination. This examination will be based on a list of literary works given each student as he commences his graduate studies. The student will be asked to write for one hour on four of the following five areas:
1. British literature before Shakespeare
2. British literature Shakespeare through Sterne
3. British literature Johnson through Wilde
4. American literature before 1900
5. Twentieth Century American and British literature

Students will be graded 1 (Excellent), 2 (Good), 3 (Satisfactory), or 4 (Unsatisfactory). The Department will recommend students with grades of 1 or 2 for admission to the Ph.D. program. A grade of 3 will satisfy the examination requirement for the M.A.; a grade of 4 will not.
Requirements for the Ph.D. Degree:

Aim of the Program. The aim of this doctoral program is to produce teacher-scholars who have a good general knowledge of English and a special knowledge in their field of concentration. Each student in the program must take courses in teaching college English, and these courses include actual teaching experience.

The Ph.D. in English involves 50 hours of course work beyond the M.A. degree, exclusive of credits devoted to the doctoral dissertation. In addition, each student must achieve a grade of B or A in a foreign language course number 202 (i.e., FRE 202, GER 202, ITA 202, CLS 202, RUS 202, SPA 202). A dissertation is required.

Requirements for Admission. M.A. degree and a grade of 1 or 2 on the University of South Florida English M.A. final examination. Transfer students who have the M.A. in English must present a graduate average of at least B+. Students who do not have an M.A. in English will be required to take supplementary graduate work before being officially admitted to the program.

Course work. The following courses are required: ENG 693 or its equivalent, ENG 702 or 703, ENG 791, ENG 799, and seven other courses in English at the 600 or 700 level. A student may transfer from another university up to 9 hours of graduate credit. He may take up to 10 hours of credit in another department (the course to be approved by the Department of English Graduate Committee).

Examinations. After five courses beyond the M.A. the student must take the written doctoral Qualifying Examination in all periods of American and British literature (1. British literature before 1500; 2. British literature 1500-1660; 3. British literature 1660-1780; 4. British literature 1780-1890; 5. American literature to 1920; 6. American literature after 1920 and British literature after 1890—writing for two hours on each period. The total exam will require twelve hours of writing. Students may take this examination only twice; a second failure disqualifies them from the Ph.D. program. Students passing this comprehensive examination and the foreign language course are admitted to doctoral candidacy. After completion of an approved dissertation the student will defend his dissertation in a two-hour oral examination and will be examined as well on his major field. Thereafter, he is awarded his doctoral degree.

Requirements for the B.A. Degree:

The curriculum for the Humanities major comprises interdisciplinary courses in the verbal, visual, and musical arts of specified periods and cultures. Specific requirements are as follows:

1. Forty-two to fifty-seven credits in upper level Humanities courses, 400 and 500 level.
2. Hum 591, a senior essay, three credits.
3. Nine credits in the creative or performing arts.

Requirements for the B.A. Degree In Humanities Education:

A program designed to prepare secondary school Humanities teachers is available through the College of Education. For requirements, see the College of Education, page 57.
University Theatre

(12 cr. hrs. minimum from the following group)

<table>
<thead>
<tr>
<th>Required Core Courses</th>
<th>Required Supporting Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIN 321 (4)</td>
<td>LIN 545 (4)</td>
</tr>
<tr>
<td>LIN 530 (4)</td>
<td>LIN 551 (5)</td>
</tr>
<tr>
<td>LIN 540 (4)</td>
<td>CLS 571 (4)</td>
</tr>
<tr>
<td>LIN 541 (4)</td>
<td>PHIL 531 (4)</td>
</tr>
<tr>
<td>LIN 543 (4)</td>
<td>PSY 441 (4)</td>
</tr>
</tbody>
</table>

*One section of LIN 301 is for Anthropology majors and requires ANT 201 as a prerequisite.

2. English-Linguistics Major (ENL). 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.

Required Core Courses

<table>
<thead>
<tr>
<th>ENG 300 (5)</th>
<th>ENG 301 (5)</th>
<th>ENG 302 (5)</th>
<th>ENG 310 (5)</th>
<th>ENG 350 (5)</th>
<th>ENG 402 (5)</th>
<th>ENG 475 (5)</th>
<th>ENG 476 (5)</th>
<th>ENG 477 (5)</th>
</tr>
</thead>
</table>

Required Supporting Courses (45 cr. hrs. minimum from the following group)

<table>
<thead>
<tr>
<th>ENG 300 (5)</th>
<th>ENG 301 (5)</th>
<th>CLS 571 (4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 302 (5)</td>
<td>ENG 310 (5)</td>
<td>ENG 350 (5)</td>
</tr>
<tr>
<td>ENG 402 (5)</td>
<td>ENG 475 (5)</td>
<td>ENG 476 (5)</td>
</tr>
<tr>
<td>ENG 477 (5)</td>
<td>PHI 531 (4)</td>
<td>SPE 503 (5)</td>
</tr>
</tbody>
</table>

3. Foreign Language-Linguistics Major (FLL). 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.

Required Core Courses

<table>
<thead>
<tr>
<th>ENG 477 (5)</th>
<th>LIN 321 (4)</th>
<th>LIN 401 (4)</th>
<th>LIN 540 (4)</th>
</tr>
</thead>
</table>

Required Supporting Courses (8 cr. hrs. minimum from the following group)

<table>
<thead>
<tr>
<th>ENG 547 (5)</th>
<th>LIN 551 (5)</th>
</tr>
</thead>
</table>

Plus one of the following five sequences:

I. French (33 cr. hrs.)

<table>
<thead>
<tr>
<th>FRE 301 (4)</th>
<th>FRE 405 (4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRE 303 (3)</td>
<td>FRE 406 (4)</td>
</tr>
<tr>
<td>FRE 305 (4)</td>
<td>FRE 516 (4)</td>
</tr>
<tr>
<td>FRE 401 (4)</td>
<td>CLS 517 (4)</td>
</tr>
<tr>
<td>FRE 403 (2)</td>
<td></td>
</tr>
</tbody>
</table>

II. German (31 cr. hrs.)

<table>
<thead>
<tr>
<th>GER 301 (4)</th>
<th>GER 405 (4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GER 303 (3)</td>
<td>GER 406 (4)</td>
</tr>
<tr>
<td>GER 305 (4)</td>
<td>GER 513 (4)</td>
</tr>
<tr>
<td>GER 401 (4)</td>
<td>GER 516 (4)</td>
</tr>
</tbody>
</table>

III. Italian (27 cr. hrs.)

<table>
<thead>
<tr>
<th>ITA 301 (4)</th>
<th>ITA 405 (4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITA 303 (3)</td>
<td>ITA 406 (4)</td>
</tr>
<tr>
<td>ITA 305 (4)</td>
<td>CLS 517 (4)</td>
</tr>
<tr>
<td>ITA 401 (4)</td>
<td></td>
</tr>
</tbody>
</table>

IV. Russian (23 cr. hrs.)

<table>
<thead>
<tr>
<th>RUS 301 (4)</th>
<th>RUS 401 (4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RUS 303 (3)</td>
<td>RUS 405 (4)</td>
</tr>
<tr>
<td>RUS 305 (4)</td>
<td>RUS 406 (4)</td>
</tr>
</tbody>
</table>

V. Spanish (33 cr. hrs.)

<table>
<thead>
<tr>
<th>SPA 301 (4)</th>
<th>SPA 405 (4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPA 303 (3)</td>
<td>SPA 406 (4)</td>
</tr>
<tr>
<td>SPA 305 (4)</td>
<td>SPA 516 (4)</td>
</tr>
<tr>
<td>SPA 401 (4)</td>
<td>CLS 517 (4)</td>
</tr>
<tr>
<td>SPA 403 (2)</td>
<td></td>
</tr>
</tbody>
</table>

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 (LIN) are: anthropology, English, a foreign language, linguistics, and speech communication; 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, LIN 401, and SPE 503. (Credit for LIN 301, and LIN 401 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. All students must satisfy the core requirements which constitute a minimum of 29 hours. 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 Communication. 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 them educationally advisable.

**Core Requirements (29 cr. hrs. minimum)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIN 551</td>
<td>(5)</td>
</tr>
<tr>
<td>LIN 600</td>
<td>(2)</td>
</tr>
<tr>
<td>LIN 601</td>
<td>(4)</td>
</tr>
<tr>
<td>LIN 602</td>
<td>(4)</td>
</tr>
<tr>
<td>LIN 611</td>
<td>(4)</td>
</tr>
<tr>
<td>LIN 621</td>
<td>(4)</td>
</tr>
<tr>
<td>LIN 699</td>
<td>(1-8)</td>
</tr>
<tr>
<td>Plus one of the following:</td>
<td></td>
</tr>
<tr>
<td>CLS 517</td>
<td>(4)</td>
</tr>
<tr>
<td>ENG 687</td>
<td>(5)</td>
</tr>
<tr>
<td>LIN 612</td>
<td>(4)</td>
</tr>
</tbody>
</table>

**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 517, CLS 571, EDT 531, EDT 631, EDX 649, ENG 476, ENG 477, ENG 616, ENG 686, ENG 687, FRE 403, FRE 601, GER 513, GER 601, PHI 531, PSY 441, SPA 403, SPA 601, SPE 503, SPE 511, SPE 603, SPE 611, SPE 612, CLY 580, and CLY 623. Descriptions of these courses may be found under the appropriate departmental heading.

**MASS COMMUNICATIONS (COM)**

Mass Communications offers a number of courses, essentially liberal arts in approach, which introduce students to the theories, principles, and problems of communications, emphasizing the concept of freedom of information as the cornerstone of Constitutional Democracy and preparing students for future leadership rather than yeoman roles in communications media. Graduates should understand the structure and functions of mass media systems as well as the basic processes of communication. In addition, students specialize in an area of mass communications (advertising, broadcasting, film, magazines, news-editorial, public relations, or visual communications) to blend a strong introduction to professional skills with the theoretical orientation.

**Requirements for the B.A. Degree:**

To be admitted to the core curriculum courses in Mass Communications, students must have attained sophomore standing and have completed English 101, 102, and 103 with a minimum grade of “C” in each. Both courses in the Mass Communications core must be completed with a minimum grade of “C” before any other COM-prefix course may be taken. No grade lower than “C” is Mass COM-prefix courses may be used toward graduation.

A required core curriculum (Communications and Society and Writing for the Media) and a balance between required courses and recommended courses in the major sequence offer students a guided set of essential courses plus a number of options of their own choosing. Majors will take approximately 70 hours of electives outside the department. They will be encouraged to use a substantial number of those to support the major.

Required are 8 hours in a Mass Communications “core,” and 40 hours in a sequence—20 hours specified and 20 to be selected from a restricted list of options—for a minimum and maximum of 48 hours in COM-prefix courses, within the 180-hour degree requirement.

Typing proficiency is a prerequisite for admission to the department.

The departmental sequence requirements are:

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<thead>
<tr>
<th>Departmental Core Curriculum</th>
<th>(8 cr. hrs.)</th>
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<tbody>
<tr>
<td>COM 302</td>
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<td>COM 303</td>
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<tr>
<th>Sequence Requirements</th>
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<tr>
<td><strong>Sequence Selections</strong></td>
<td>(20 cr. hrs.)</td>
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<tr>
<td>1. <strong>Advertising Requirements</strong></td>
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<td>COM 330</td>
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<td>COM 331</td>
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<td>COM 332</td>
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<td>Selective Requirements</td>
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<td>COM 351</td>
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<td>COM 356</td>
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<td>COM 375</td>
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<td>II. <strong>Broadcasting Requirements</strong></td>
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<td>News Track</td>
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<td>COM 330</td>
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<td>Production Track</td>
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<td>COM 361</td>
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<td>Selective Requirements</td>
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<td>COM 371</td>
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<td>COM 400</td>
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<td>Film Requirements</td>
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<td>COM 456</td>
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<td>COM 457</td>
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<td>III. <strong>Selective Requirements</strong></td>
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<td>COM 453</td>
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<td>COM 455</td>
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<td>COM 458</td>
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IV. Journalistic Requirements

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<td>COM 403 (4)</td>
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<td>COM 433 (4)</td>
<td>COM 403 (4)</td>
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<td>COM 539 (4)</td>
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Selective Requirements

| COM 334 (4)        | COM 334 (4)    |
| COM 371 (4)        | COM 371 (4)    |
| COM 372 (4)        | COM 372 (4)    |
| COM 375 (4)        | COM 375 (4)    |
| COM 376 (4)        | COM 376 (4)    |
| COM 435 (4)        | COM 425 (4)    |
| COM 500 (4)        | COM 435 (4)    |
| COM 331 (4)        | COM 500 (4)    |

V. Public Relations Requirements

| COM 330 (4)        | COM 441 (4) |
| COM 341 (4)        | COM 541 (4) |

Selective Requirements

| COM 311 (4)        | COM 362 (4) |
| COM 312 (4)        | COM 371 (4) |
| COM 313 (4)        | COM 375 (4) |
| COM 321 (4)        | COM 403 (4) |
| COM 331 (4)        | COM 453 (4) |
| COM 361 (4)        | COM 500 (4) |

VI. Visual Communications Requirements

| COM 354 (4)        | COM 375 (4) |
| COM 371 (4)        | COM 403 (4) |

Selective Requirements

| COM 311 (4)        | COM 368 (4) |
| COM 321 (4)        | COM 372 (4) |
| COM 330 (4)        | COM 376 (4) |
| COM 331 (4)        | COM 425 (4) |
| COM 341 (4)        | COM 453 (4) |
| COM 353 (4)        | COM 456 (4) |
| COM 355 (4)        | COM 461 (4) |
| COM 356 (4)        | COM 463 (4) |
| COM 361 (4)        | COM 471 (4) |

MODERN LANGUAGES

(FRE/GER/ITA/MOD/RUS/SPA)

Requirements for the B.A. Degree:

Modern language major programs are designed to meet the needs of students who desire competency in a language and an expanded understanding of its culture and literature. They are of particular interest to students who wish to teach languages, those who plan to further their studies in graduate school; and those who seek careers in various types of foreign or foreign-related employment.

Major programs leading to the Bachelor of Arts degree are offered in French, German, Italian, Russian, and Spanish. Combined majors are offered in any two modern languages. For the combined major, a student must take the courses required for the complete major in one language and a series in the second language that is planned with the adviser.

Instruction is also provided in Portuguese, Romance Philology, the less-commonly taught languages such as Chinese, Dutch, Modern Hebrew, Modern Arabic, Modern Greek, Polish and others on occasion.

FRENCH (FRE)

Required Courses (29 cr. hrs.)

| FRE 301 (4) | FRE 403 (2) |
| FRE 303 (3) | FRE 405 (4) |
| FRE 305 (4) | FRE 406 (4) |
| FRE 401 (4) | FRE 516 (4) |

Required Supporting Courses:

16 hours in upper-level courses planned with the adviser.

GERMAN (GER)

Required Courses (29 cr. hrs.)

| GER 301 (4) | GER 403 (2) |
| GER 303 (3) | GER 405 (4) |
| GER 305 (4) | GER 406 (4) |
| GER 401 (4) | GER 516 (4) |

Required Supporting Courses:

16 hours in upper-level courses planned with the adviser.

ITALIAN (ITA)

Required Courses (26 cr. hrs.)

| ITA 203 (3) | ITA 401 (4) |
| ITA 301 (4) | ITA 405 (4) |
| ITA 303 (3) | ITA 406 (4) |
| ITA 305 (4) |          |

Required Supporting Courses:

19 hours in upper-level courses planned with the adviser.

RUSSIAN (RUS)

Required Courses (26 cr. hrs.)

| RUS 203 (3) | RUS 401 (4) |
| RUS 301 (4) | RUS 405 (4) |
| RUS 303 (3) | RUS 406 (4) |
| RUS 305 (4) |          |

Required Supporting Courses:

19 hours in upper-level courses planned with the adviser.

SPANISH (SPA)

Required Courses (33 cr. hrs.)

| SPA 301 (4) | SPA 405 (4) |
| SPA 303 (3) | SPA 406 (4) |
| SPA 305 (4) | SPA 516 (4) |
| SPA 401 (4) | SPA 562 (4) |
| SPA 403 (2) |          |

Required Supporting Courses:

12 hours in upper-level courses planned with the adviser.

Requirements for the M.A. Degree:

Requirements for Admission. General requirements for graduate work are given on pages 42-43.

For admission to the M.A. program in French or Spanish, a student must have previously taken the following courses or their equivalent: FRE or SPA 303, 401, 403, 405, and 406. The student must also have a 3.0 grade point ratio over the last two years of undergraduate work attempted, or a total score of 1000 on the Graduate Record Examination. All applications must be approved by the Director of Graduate Studies and the Chairman of the Department of Modern Languages.

Program Requirements. For a master’s degree in French or Spanish, the following are required:

1. Research skill in a second foreign language.

2. Satisfactory completion of a four-part written comprehensive examination, based upon a reading list provided by the department, on French language and literature or Spanish and Spanish-American language and literature. A portion of the comprehensive examination must be written in the foreign language.

3. A thesis or thesis-type paper, written under the direction of an adviser assigned by the departmental chairman, and approved by the Director of Graduate Studies and two additional professors, or an additional 3 hours of course work.

4. Course work following one of the plans listed below:

Plan I

45 hours in graduate courses, including FRE or SPA 601 and ROM 689, planned with the Director of Graduate Studies.

Plan II

31-35 hours in graduate courses, including FRE or SPA 601 and ROM 689, plus 10-14 hours in a second field, planned with the Director of Graduate Studies.
### PHILOSOPHY (PHI)

**Requirements for the B.A. Degree:**

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: from area (1) — PHI 303; from area (2) — PHI 333, 334, and 335. In addition, all majors who are going to graduate school in philosophy are urged to take at least one course in the three remaining major areas of study. All majors must take at least nine credits above the 500 level, including two seminars. No more than two of PHI 301, 311, 317 will be counted toward the major. Credit for a major in philosophy will be extended for any requirement above, with approval of the Department Chairman.

**Honors Program**

The Department of Philosophy offers the philosophy major the opportunity of participating in the Philosophy Department Honors Program. A student may graduate with departmental honors if he: (1) is accepted by the department as an honors candidate, (2) completes four honors courses with a grade point ratio of 3.5 or better, and (3) completes the courses necessary for a philosophy major with a grade point ratio of 3.2 or better. The four honors courses will consist of three 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 583-003.

**Requirements for the M.A. Degree:**

*Requirements for Admission.* For admission the student must have a B average in Philosophy at the undergraduate level, have a score of at least 1000 on the GRE, and have completed the equivalent of PHI 303, 333, 334, and 335. No credit towards the M.A. degree will be given for courses outside the Department of Philosophy without the approval of the Graduate Program Director and the Department Chairman. 

**Program Requirements.** The following comprise the degree requirements in Philosophy, in addition to the general requirements for graduate work as specified on pages 42-43: 

1. **Reading knowledge of a foreign language approved by the student’s adviser.**
2. **A written comprehensive examination.**
3. **A thesis or thesis-type paper, written under the direction of an adviser assigned by the Department Chairman, and approved by the student’s supervisory committee.**

### RELIGIOUS STUDIES (REL)

The Program of Religious Studies 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 toward an understanding of the religious thought and life-styles of people possessing religious heritages other than the Judaism-Christian heritages.

Majors in the program will find, in addition, courses designed to give depth in certain areas of religious studies and to supply language tools and critical analysis methods which will prepare them for advanced graduate study.

### Requirements for the B.A. Degree:

A total of 49 credit hours are required for a major, chosen from the following series of courses:

1. **Basic Documents and the Analysis of Religious Thought (33 cr. hrs.)**

| REL 301 (4) | REL 370 (4) |
| REL 310 (4) | REL 383 (4) |
| REL 315 (4) | REL 385 (4) |
| REL 410 (4) | REL 401 (4) |
| REL 316 (4) | REL 402 (4) |
| REL 317 (4) | REL 403 (4) |
| REL 325 (4) | REL 410 (4) |
| REL 326 (4) | REL 411 (4) |
| REL 327 (4) | REL 412 (4) |
| REL 328 (4) | REL 413 (4) |
| REL 329 (4) | REL 415 (4) |
| REL 330 (4) | REL 416 (4) |
| REL 331 (4) | REL 417 (4) |
| REL 340 (4) | REL 481 (4) |
| REL 341 (4) | REL 483 (4) |
| REL 350 (5) | REL 491 (4) |
| REL 351 (5) | REL 583 (1-5) |

2. **Interdisciplinary Religious Courses** (16 cr. hrs.)

| ANT 471 (4) | HUM 428 (4) |
| ART 472 (4) | HUM 541 (4) |
| AST 371 (5) | HUM 542 (4) |
| BIO 465 (4) | HUM 543 (4) |
| CLS 321 (5) | HII 301 (4) |
| CLS 341 (3) | HII 302 (4) |
| CLS 342 (3) | HII 401 (4) |
| CLS 343 (3) | PHI 301 (4) |
| CLS 352 (3) | PHI 311 (4) |
| ENG 375 (5) | PHI 333 (4) |
| ENG 376 (5) | PHI 409 (4) |
| ENG 377 (5) | PHI 411 (4) |
| ENG 409 (5) | PHI 521 (4) |
| HTY 301 (4) | SOC 373 (4) |
| HUM 427 (4) | |

Each student’s program must be planned with a faculty adviser in Religious Studies, who may make appropriate course substitutions when such changes are academically advisable.

### SPEECH COMMUNICATION (ENS/SPE/STA)

**Requirements for the B.A. Degree:**

The Speech Communication curriculum provides courses for all students interested in increasing their understanding and skills in oral communication. It offers a major program in Speech Communication (SPE) and two combined major programs: Speech Communication-English (ENS) and Speech Communication-Theatre Arts (STA).

A major in Speech Communication requires a minimum of 45 credits in SPE courses. A combined Speech Communication-English major, intended primarily for those preparing to teach in secondary schools, requires 67 credits in the combined areas and 5 credits in Theatre Arts. A combined Speech Communication-Theatre Arts major requires 61 credits in the combined areas.

**Speech Communication Sequence (SPE):** SPE 201 (5), 203 (5), 321 (5), 363 (5) or 365 (5), 491 (5), and 20 credits of Speech Communication electives in 300-level courses or above. (A maximum of ten elective credits may be taken in any given Speech Communication area. These areas include: rhetoric and public address, oral interpretation, and speech science. The remaining credits must be taken in one or more of the other Speech Communication areas.)
Speech Communication-English Sequence (ENS): SPE 201 (5), 203 (5), 321 (5), 363 (5) or 365 (5), 491 (5), and 10 credits of Speech Communication electives in 300-level courses or above; ENG 300, 301, 302, 310, 350 or 351, 475; one from the following: ENG 316, 317, 332, 435, 436, 437, 438, 441 or 442; and one from the following: ENG 340, 341, 343 or CLS 351; and TAR 303.

Speech Communication-Theatre Arts Sequence (STA): SPE 201 (5), 203 (5), 321 (5), 363 (5) or 365 (5), 491 (5), and 10 credits of Speech Communication electives in 300-level courses or above; TAR 201 and TAR 211, and 28 hours elected from TAR 212, 213, 303, 311, 313, 322, 339, 361, 421, 423, 425, 443, 565 or 567.

Requirements for the M.A. Degree:

Requirements for Admission. In addition to the general requirements of the University, an applicant must have: (1) a baccalaureate degree in Speech or related fields from an approved college or university (2) a B average or better in all work attempted during the last two years of undergraduate work or a total quantitative-verbal GRE score of 1000 or higher. All prospective M.A. candidates must take the GRE whether or not they have the minimum of B average, (3) approval by the Department of Speech Communication graduate committee.

Course Work. A Master of Arts degree in Speech Communication requires 45 credit hours of course work distributed in the following manner: 15 hours in Rhetoric and Public Address, 10 hours in Oral Interpretation of Literature, 5 hours of Speech Science, 5 hours of research and bibliography, and 10 hours of electives. (Electives in related areas must be approved by the candidate's major professor and the departmental graduate committee.) For graduate SPE electives, students may substitute two courses acceptable for graduate credit in related areas, subject to approval by the Department of Speech Communication.

Examinations. Each student is required to pass a written comprehensive examination. An oral examination is also required for students selecting the thesis option.

Other Requirements. Each student will select one of the plans listed below. Successful completion of one of the following plans is in addition to the 45-quarter-hour requirement; competency in the selected plan to be determined by the candidate's supervisory committee.

Plan A — An extended critical or analytical paper (thesis) in the field of Speech Communication studies.

Plan B — Proof of a working knowledge of a computer language. (e.g. FORTRAN) and ability to design a research program.

Plan C — Three courses (12 credits) in linguistics.

Plan D — Two courses (8 credits) in linguistics and one course (4 credits) in the structure of American English.

Plan E — Three courses (or 12 credits) in statistics.

Plan F — Three courses (or 12 credits) in Speech Communication and/or other academic disciplines if part of an approved planned sequence.

Plan G — At least 12 credits in a foreign language (above the 400-level).
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 upgrading 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 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.

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, 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 furnish an estimate of academic achievement and intellectual competence.

Interviews are arranged for applicants whose qualifications appear to warrant complete exploration.

All inquiries concerning admission should be directed to the Assistant Dean for Admissions, Office for Admissions, 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. Appropriate arrangements for post graduate training must be made. 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.

Science Center
Science is a dominant force in the modern world and its development in both the theoretical and the practical spheres underlie the foundations of modern society.

Students in the College of Natural Sciences are trained in the tools of logical analysis and the modes of experimentation in the continuing attempt to better understand the nature of man and his relationship to the universe. In all its functions the College is dedicated to fostering a spirit of inquiry and intellectual growth.

In its seven departments the College of Natural Sciences offers courses in astronomy; biology, including botany, microbiology and zoology; chemistry, and biochemistry; geology; marine science; mathematics and physics. These courses are designed for students planning scientific careers in the science fields or for those planning professional 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. Students may begin their science work at the University before transferring to another university to complete programs not offered here, such as agriculture, home economics, or pharmacy.

**BACCALAUREATE LEVEL DEGREE PROGRAMS**

The College offers the Bachelor of Arts degree with majors in Astronomy (AST); Biology (BIO), Botany (BOT), Microbiology (MIC), and Zoology (ZOO); Chemistry (CHM); Geology (GLY); Mathematics (MTH); Physics (PHY); and Interdisciplinary Natural Sciences (INS) with a concentration in each of the above. The College offers the Bachelor of Science degree with majors in Chemistry (CHS), Clinical Chemistry (CHC), Medical Technology (MET), and Physics (PHS). For specific requirements, consult appropriate departmental sections of this bulletin.

**Admission to the College**

A student who has been accepted as a first-time student at this University may be admitted to the College of Natural Sciences by declaring any major or program offered by the College. A student who wishes to transfer from the Division of University Studies or from another college of this University must in addition have an overall grade point average of 2.0. At the time of admission to the College the student will be assigned a faculty adviser for counseling and program planning. Students preparing for a science or mathematics career must plan their courses carefully because of the sequential nature of the science curricula. Information on departments, majors, programs, counseling and other services of the College can be obtained from the office of the dean or by contacting the Director of Advising, College of Natural Sciences, University of South Florida, Tampa, Florida, 33620.

**General Requirements for Degrees**

The requirements for graduation in any undergraduate degree offered by the College are as follows:

1. 180 credit hours with at least a "C" average (2.0) in work done at the University of South Florida.
2. Completion of a sequence of courses constituting a major program. A major program is defined to be courses in a department of concentration plus supporting courses in related departments. All courses in the major program must be taken with letter grade except those courses which are graded S/U only. A 2.0 grade point average must be achieved in courses in the department of concentration and a 2.0 grade point average must be achieved in the supporting courses of the major program. For a more detailed description of the major program requirements, consult the appropriate departmental section. Certain courses offered in the College are designed for the non-science major or for the non-departmental major. For science or mathematics majors, courses described "For non-majors" may be taken and counted toward graduation credit only as free electives. Courses described as "No credit for (name of major)" will not be counted toward graduation credit in any area of that major.
3. Satisfaction of the University distribution requirement by the completion of sixty hours with at least eight hours in each of the five areas listed below:

   **Area I — English Composition**
   - ENG 101, 102, 103

   **Area II — Fine Arts/Humanities**
   - AMS, ART, CLS, DAN, ENG (excluding 100, 101-103), HUM, HII, MOL, ARA, FRE, GER, GRE, HEB, ITA, POR, ROM, RUS, SPA, MUS, PHI (excluding 303), REL, SPE, TAR

   **Area III — Mathematics & Quantitative Methods**
   - ECN 231, 331, ESC, MTH, PHI 303, SSI 301. For majors in the College, the minimum requirement of eight hours in Mathematics may be waived by credit in at least eight hours of mathematics courses required by the major.

   **Area IV — Natural Sciences**
   - AST, BIO, BOT, CHM, GLY, MIC, NAS, OGY, PHY, PHS, ZOO. For majors in the College, the minimum requirement of eight hours in Natural Sciences may be waived by credit in at least eight hours of natural sciences courses required by the major.

   **Area V — Social & Behavioral Sciences**
   - AFA, AGE, ANT, CIP, ECN 100, EDF 377, GPY, HTY, POL, PSY, SOC, SSI (excluding 301) WSP.
   - Remaining elective hours in distribution requirements may also be waived by credit in natural science courses required by the major.

Acceptable in the total of 60 quarter hours but not part of any of the five areas: LLJ 200, EDV 207, CBS 401.

All A.A. degree holders (from in-state or out-of-state accredited institutions) will be considered as having met General Distribution Requirements and 90 quarter hours of work will be transferred. The determination of the prerequisites
for a given academic program will remain the prerogative of the College.

No more than twelve (12) hours in a single department may be counted toward distribution requirements for any area. A student may appeal to the Coordinator of Advising in his or her college for exceptions to these prefixes or courses prior to registration in such courses.

4. The student’s work must include 24 hours, with no more than 12 hours from any one department and approved by the chairman of the department of the student’s major or concentration, from the following colleges:

- College of Fine Arts
- College of Language & Literature
- College of Social & Behavioral Sciences.

Courses taken to satisfy the Distribution Requirements of the College of Natural Sciences may not be used to satisfy this requirement.

5. At least 30 credit hours with letter grades must be earned in the College of Natural Sciences.

6. At least 45 of the last 90 hours of undergraduate credit must be in residence in courses (with letter grades) at the University of South Florida. The approval of the dean must be secured for any transfer credits offered for any part of these last 90 hours.

Credits 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.

Grading Systems

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

1. CLEP and other advance placement examinations.
2. Waiver by either documentation or examination.
3. Off-Campus Term programs (See page 36).
4. Cooperative Education Program (See page 22).
5. Independent Study.

A. With the exception of courses graded S/U only, all courses required to satisfy the departmental major and all supporting courses required by the departmental major are considered in the students' major program and may not be taken S/U. However, once the requirements of the major program have been satisfied, subsequent courses taken in the major or supporting areas are considered free electives and may be taken S/U. All hours required to complete the 24 hour rule must be taken by letter grade.

B. With the exception of ENG 101, 102, 103 all courses in Distribution Requirements and all courses in free electives may be taken S/U. There is no restriction regarding the number of hours to be taken S/U except the graduation requirement that the student must earn at least 30 credit hours with letter grades in the College of Natural Sciences.

C. Students will be permitted to enroll in a course by an S/U on the basis of a written contract signed by the student, and the instructor of the course. This contract should be completed no later than the third week of the quarter in which the course is offered.

D. Each instructor for courses in the College of Natural Sciences will provide students with requirements necessary to attain an "S" grade. Essentially, "S" should be equal to a "C" or better.

E. Students transferring from any other college or division of the University will be subject to the above requirements.

GRADUATE LEVEL DEGREE PROGRAMS

Programs of graduate study are available in every department of the College of Natural Sciences. Students apply for graduate work through the College of Natural Sciences and are recommended for admission by the department in which they intend to concentrate. A departmental committee is appointed which supervises and guides the program of the candidate. The general University requirements for graduate work at the master's level are given on page 42, and for the Ph.D. degree on page 43. The specific requirements for each department are listed under that department below. For further information regarding admission and the availability of fellowships and assistantships a candidate should write to the appropriate departmental chairman, University of South Florida, Tampa, Florida 33620.

Master's Degree Programs

The College of Natural Sciences offers graduate programs leading to the Master of Arts degree in the fields of Astronomy (AST), Botany (BOT), Geology (GLY), Marine Science (OGY), Mathematics (MTH), Microbiology (MIC), Physics (PHY), and Zoology (ZOO); and a Master of Science degree in Chemistry (CHM).

Doctor's Degree Programs

The College of Natural Sciences offers three programs leading to the degree of Doctor of Philosophy:

- Biology (BIO) — This program leads to the Ph.D. in Biology, including the fields of Marine Biology, Systematics, Behavior, Ecology, and Physiology.
- Chemistry (CHM) — This program leads to the Ph.D. in Chemistry, including the fields of Analytical, Biochemistry, Inorganic, Organic and Physical Chemistry.
- Mathematics (MTH) — This program leads to the Ph.D. in Pure and Applied Mathematics.

PROGRAMS AND CURRICULA

<table>
<thead>
<tr>
<th>ASTRONOMY (AST)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requirements for the B.A. Degree:</td>
</tr>
<tr>
<td>1. Astronomy Courses (34 cr. hrs. of upper level courses minimum)</td>
</tr>
<tr>
<td>AST 301 (5)</td>
</tr>
<tr>
<td>AST 302 (5)</td>
</tr>
<tr>
<td>AST 311 (1)</td>
</tr>
</tbody>
</table>

A minimum of 12 cr. hrs. from:

- AST 521 (5)  
- AST 522 (4)  
- AST 533 (4)  
- AST 583 (1-6)

A minimum of 1 cr. hr. from:

- AST 481 (1)  
- AST 491 (1)
II. Supporting Courses in the Natural Sciences (45-46 cr. hrs.)

MTH 302-305 (17)  
MTH 401 (4)  
or  
PHY 301-306. (12)

At least three of the following Physics courses:

PHY 307 (3)  
PHY 309 (4)  
PHY 323 (4)  
PHY 331 (4)  

At least one of the following Mathematics courses:

MTH 311 (4)  
MTH 323 (4)  
MTH 345 (5)

III. General Distribution Requirements

(60 cr. hrs. excluding waivers)

The astronomy major must satisfy the General Distribution requirements of the College of Natural Sciences (See page 92).

IV. Liberal Education Electives

The student must satisfy 24 hours of liberal education electives as described in item 4 of the graduation requirements of the College of Natural Sciences. (See page 93).

V. Free Electives (40 cr. hrs. maximum)

The student is expected to familiarize himself with the techniques of programming electronic computers before the end of his sixth quarter.

For students planning to attend graduate school, it is strongly recommended that they include FRE 101, 102, GER 101-102, or RUS 101-102 in their course work or that they achieve an equivalent level of competence in at least one of these three languages.

Teacher Education Programs:

For information concerning the M.A. degree for junior college teachers, see pages 64-65.

Requirements for the M.A. Degree:

General requirements for graduate work are given on page 43.

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 and must be based on original work. In lieu of the thesis, however, the student may be permitted to enroll for at least 8 additional hours on a level of 500 or above beyond the present requirements. It will be expected that the student will be assigned to a faculty member and perform research under this faculty member’s direction. 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. This last requirement may, in exceptional cases, be replaced by an equivalent one agreeable to the student and the department chairman.

**BIOLOGY (BIO/BOT/MIC/ZOO)**

In addition to a set of basic courses in biology, students must have a thorough preparation in other areas of natural sciences in order to be competitive for jobs or for further study beyond the baccalaureate. A modern biology curriculum is built on a foundation of mathematics, chemistry, and physics.

Four specific Bachelor of Arts degrees (Biology, Botany, Microbiology, and Zoology) are available for students interested in the biological sciences. They are all preparatory for careers in teaching agriculture, medicine, dentistry, marine biology, bio-technology, or for post-graduate study in any of the various life sciences. Students should study the requirements listed below and then make maximum use of the vigorous advising program maintained by the Department in structuring their total program. A reading knowledge of a modern foreign language (German, French, or Russian) is strongly recommended for those who intend to enter graduate school.

**Requirements for the B.A. Degree:**

I. Department of Biology Courses

A. Biology Core Courses (Required for all B.A. Degrees, 35 cr.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 201-203</td>
<td>12</td>
</tr>
<tr>
<td>BIO 331</td>
<td>4</td>
</tr>
<tr>
<td>BIO 401-402</td>
<td>10</td>
</tr>
<tr>
<td>BIO 445</td>
<td>4</td>
</tr>
<tr>
<td>MIC 556, ZOO 321</td>
<td>5</td>
</tr>
</tbody>
</table>

Biology Major (BIO) (25 cr. hrs.)

25 credit hours in BIO, BOT, MIC, and ZOO courses in consultation with adviser.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOT 311 or 314</td>
<td>5 or 3</td>
</tr>
<tr>
<td>BOT 417</td>
<td>5</td>
</tr>
<tr>
<td>BOT 491</td>
<td>1</td>
</tr>
<tr>
<td>Biology Department Electives</td>
<td>13-15</td>
</tr>
</tbody>
</table>

B. Individual Degree Requirements

Biology Major (BIO) (25 cr. hrs.)

25 credit hours in BIO, BOT, MIC, and ZOO courses in consultation with adviser.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIC 351</td>
<td>5</td>
</tr>
<tr>
<td>MIC 556</td>
<td>5</td>
</tr>
<tr>
<td>Botany Major (BOT) (29 cr. hrs.)</td>
<td>5 or 4</td>
</tr>
<tr>
<td>MIC 491</td>
<td>1</td>
</tr>
<tr>
<td>MIC 553</td>
<td>5</td>
</tr>
<tr>
<td>Zoology Major (ZOO) (15 cr. hrs.)</td>
<td>5</td>
</tr>
<tr>
<td>ZOO 422</td>
<td>5</td>
</tr>
<tr>
<td>ZOO 313</td>
<td>5</td>
</tr>
</tbody>
</table>

Microbiology Major (MIC) (25 cr. hrs.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIC 556</td>
<td>5</td>
</tr>
<tr>
<td>Botany Major (BOT) (29 cr. hrs.)</td>
<td>5 or 4</td>
</tr>
<tr>
<td>MIC 491</td>
<td>1</td>
</tr>
<tr>
<td>MIC 553</td>
<td>5</td>
</tr>
<tr>
<td>Zoology Major (ZOO) (15 cr. hrs.)</td>
<td>5</td>
</tr>
<tr>
<td>ZOO 422</td>
<td>5</td>
</tr>
<tr>
<td>ZOO 313</td>
<td>5</td>
</tr>
</tbody>
</table>

III. General Distribution Requirements

(60 cr. hrs. excluding waivers)

Each student is required to satisfy the General Distribution requirements of the College of Natural Sciences (see page 92). The selection of courses within the requirements is to be done in conference with Biology department advisers. Note: Based on allowable waivers, a maximum of 25 credit hours will be required for completion of General Distribution Requirements.

II. Supporting Courses in the Natural Sciences (Required for all B.A. Degrees, 44 cr.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 211-213</td>
<td>12</td>
</tr>
<tr>
<td>CHM 331-334</td>
<td>10</td>
</tr>
<tr>
<td>PHY 201-204</td>
<td>10</td>
</tr>
<tr>
<td>MTH 12</td>
<td></td>
</tr>
</tbody>
</table>

III. General Distribution Requirements

(60 cr. hrs. excluding waivers)

Each student is required to satisfy the General Distribution requirements of the College of Natural Sciences (see page 92). The selection of courses within the requirement is to be done in conference with Biology department advisers. Note: Based on allowable waivers, a maximum of 25 credit hours will be required for completion of General Distribution Requirements.
IV. Liberal Education Electives

The student must satisfy 24 hours of liberal education electives as described in item 4 of the graduation requirements of the College of Natural Sciences (See page 93).

V. Free Electives (including General Distribution waivers)

**Biology Major (BIO)**
(27 cr. hrs.)

**Microbiology Major (MIC)**
(27 cr. hrs.)

**Botany Major (BOT)**
(23 cr. hrs.)

**Zoology Major (ZOO)**
(37 cr. hrs.)

**Teacher Education Programs:**

For information concerning the degree programs for secondary school teachers and junior college teachers, see pages 57 and 64 of this Bulletin.

**Marine Biology**

The field of marine biology is especially important in Florida and there is a good demand for trained personnel. Several faculty members in the Department teach courses and conduct research in this area. Undergraduates interested in specializing in marine biology which leads to a B.A. degree in Biology may do so by taking marine-oriented courses offered within the Department. Appropriate courses include ZOO 313 (Introductory Invertebrate Zoology), ZOO 519 (Ichthyology), ZOO 520 (Echinoderm Biology), ZOO 545 (Zoogeography), ZOO 557 (Marine Animal Ecology), BOT 543 (Phycology), and BOT 547 (Marine Botany). The Biology Department also offers the M.A. degree in Marine Science and the Ph.D. degree in Biology with specialization in marine biology possible.

**Requirements for the M.A. Degree**

General requirements for graduate work are given on pages 42-43.

Major programs are offered in Botany, Microbiology, or Zoology. The M.A. degree may be obtained by completion of a research thesis or by appropriate substitution of structured courses and an approved paper. The satisfactory completion of all general requirements and those specifically stated below are the responsibility of the individual student.

The selection of a major professor must occur within the first three quarters after admission. Failure to do so will be cause for termination. The choosing of a major professor includes acceptance of the student by the faculty member. Until selection is accomplished, the departmental graduate coordinator will function as the student’s adviser. The three-member supervisory committee, as approved by the departmental chairman and college dean, must include one faculty member from outside the student’s area of specialization.

For students enrolled in the thesis program, a 45 credit hour minimum is required at the 500-600 level; 24 must be at the 600 level or above; 30 of the 45 credit hours must be in formally structured courses of which 22 must be in biology; 15 of the 22 credit hours must be at the 600 level or above. All students in the thesis program must complete the graduate seminar (BIO 691) and may obtain up to 9 hours for thesis credit.

For students enrolled in the non-thesis program, a 45 credit hour minimum is required at the 500-600 level; 40 credits must be in formally structured courses of which 24 must be at the 600 level or above; 22 must be in biology.

A final comprehensive examination on basic biology is required for all students. This examination is open to all departmental faculty and is normally taken after the completion of formal course work and at least one quarter before thesis presentation.

In some cases, the ability to translate pertinent scientific literature from a foreign language must be demonstrated before taking the comprehensive examination.

**Requirements for the Ph.D. Degree:**

General requirements are given on pages 43-44.

A doctorate program in biology is offered. Areas of specialization for the Ph.D. are marine biology, ecology (tropical ecology, population ecology, and physiological ecology), physiology (cellular physiology, microbial physiology, neurophysiology), systematics, and behavior. On admission to the Department for doctoral study, the student shall select a major professor from the departmental faculty for the direction of his program. Upon acceptance of the student by the faculty member and before the lapse of three quarters, a five-member supervisory committee will be named and approved by the Department chairman and College Dean. At least one member of the committee shall be from beyond the student’s area of specialization. This committee shall approve the courses of study, choice of language skills, and the supervision of the student’s research and dissertation.

It is expected that students will have had undergraduate training comparable to that of a USF undergraduate in biology. A minimum of 30 credit hours are required in formally structured graduate-level courses from more than one faculty member, as well as any additional courses necessary to the needs of the individual’s program as determined by the supervisory committee. A maximum of 9 hours of formally structured graduate-level courses may be transferred from other graduate institutions. An equivalent number of similar credit hours from a master’s degree program at USF may be applied toward meeting the above requirements.

Some time before the end of the sixth quarter, a student must have demonstrated a reading proficiency in two foreign languages. Language selection will be by the supervisory committee and testing by either the faculty of biology or modern languages. After the language examination and before the end of the sixth quarter, a departmental preliminary examination, consisting of both written and oral parts, must be satisfactorily completed.

After completion of the above requirements, the student may be admitted to candidacy upon approval of the Dean and the Director of Graduate Studies of the College. Admission to candidacy must be granted at least one academic quarter before the degree is granted. One academic year of satisfactory service as a teaching assistant is recommended for all candidates. Also, a public seminar presentation of the dissertation during the final quarter’s work is required.

A final oral examination will be administered and evaluated by the supervisory committee. Emphasis will be upon the dissertation, the student’s mastery of his general field of research, and the application of fundamental biological principles to the dissertation. The examination is conducted by a neutral and non-voting convenor and the candidate shall be subject to questioning by any biology faculty member in attendance.

**Graduate Application Deadlines:**

Applications must be completed by March 10th for Quarter 1 applicants who wish to be considered for assistantships. All other applications must be completed by the fourth week of the quarter preceding the one for which you are applying.

**CHEMISTRY (CHM/CHS/CHC)**

The Bachelor of Arts degree (CHM) provides a course of study designed for the student who does not intend to become a professional chemist but whose career goals require a thorough understanding of chemistry. Inherent in this program is a high degree of flexibility which permits tailoring a course of study to the student’s own educational objectives. As such it offers
considerable advantages to pre-professional students planning careers in medicine and the other health-related fields and an excellent preparation for primary and secondary school teachers of chemistry or physical science.

The Bachelor of Science degree in Chemistry (CHS) is a rigorous program which supplies the foundation in chemistry required for both the student who begins a chemical vocation immediately upon graduation as well as the one who pursues advanced study in chemistry or related areas (marine science, biochemistry, psychology, business administration, etc.). In accord with this goal the curriculum for the B.S. degree has been certified by the American Chemical Society.

A new program leading to a B.S. degree in Clinical Chemistry (CHC) is being offered by the Department of Chemistry. This program, one of only a few 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 Coordinator of the Clinical Chemistry Program in the Department of Chemistry for further information.

### Requirements for the Baccalaureate Degree:

#### I. Chemistry Courses*

**B.A. Chemistry (CHM)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 211-213</td>
<td>12</td>
</tr>
<tr>
<td>CHM 311</td>
<td>5</td>
</tr>
<tr>
<td>CHM 321</td>
<td>5</td>
</tr>
<tr>
<td>CHM 331-336</td>
<td>15</td>
</tr>
</tbody>
</table>

**B.S. Chemistry (CHS)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 211-213</td>
<td>12</td>
</tr>
<tr>
<td>CHM 291</td>
<td>1</td>
</tr>
<tr>
<td>CHM 321</td>
<td>5</td>
</tr>
<tr>
<td>CHM 331-336</td>
<td>15</td>
</tr>
<tr>
<td>CHM 351</td>
<td>4</td>
</tr>
</tbody>
</table>

*CHM 215-216 (10) can be substituted for CHM 211-213 (12). This reduces by 2 the cr. hrs. of required chemistry courses in each degree program.

#### II. Supporting Courses in the Natural Sciences

**B.A. Chemistry (CHM)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 212-213</td>
<td>8</td>
</tr>
<tr>
<td>PHY 201-206</td>
<td>15</td>
</tr>
</tbody>
</table>

**B.S. Clinical Chemistry (CHC)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 302-304</td>
<td>13</td>
</tr>
<tr>
<td>PHY 301-306 or 201-206</td>
<td>12-15</td>
</tr>
</tbody>
</table>

**B.S. Chemistry (CHS)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 302-305</td>
<td>17</td>
</tr>
<tr>
<td>PHY 301-306</td>
<td>12</td>
</tr>
<tr>
<td>PHY elective</td>
<td>(300-400 level except 371)</td>
</tr>
</tbody>
</table>

#### III. General Distribution Courses

**60 cr. hrs. excluding waivers**

The student is required to complete the General Distribution requirements of the College of Natural Sciences (see page 92),

### IV. Liberal Education Electives

The student must satisfy 24 hours of liberal education electives as described in item 4 of the graduation requirements of the College of Natural Sciences (See page 93).

### V. Free Electives* (Including General Distribution waivers)

**B.A. Chemistry (CHM)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 201-203</td>
<td>12</td>
</tr>
<tr>
<td>MIC 351</td>
<td>5</td>
</tr>
<tr>
<td>ZOO 321</td>
<td>5</td>
</tr>
</tbody>
</table>

**B.S. Chemistry (CHS)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGB 231-232 or</td>
<td>17</td>
</tr>
<tr>
<td>ESC 301-302</td>
<td>(3-6)</td>
</tr>
<tr>
<td>PHY 522 or</td>
<td></td>
</tr>
<tr>
<td>ETK 522</td>
<td>(4-5)</td>
</tr>
</tbody>
</table>

*Students taking CHM 215-216 must add 2 more hours of free electives.

### Teacher Education Programs:

For information concerning the degree programs for secondary school teachers and junior college teachers, see pages 57 and 64 of this bulletin.

### Requirements for the M.S. Degree:

General requirements for graduate work are given on pages 42-43.

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 supervisory committee on the basis of past work, performance on a diagnostic test, or substitution of more comprehensive and advanced courses. The required core courses are CHM 311, CHM 352, CHM 542, CHM 551, and CHM 621.

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 supervisory committee and his proposed research, in consonance with the regulations given on page 43.

In order to gain the experience that comes from teaching, satisfactory service as a teaching assistant for two academic years is required (unless a specific exemption is recommended by the supervisory committee).

**Comprehensive Examination.** Each student must pass the written comprehensive examination in three of the five areas: analytical, biochemistry, inorganic, organic, and physical chemistry. Each examination will be administered by the faculty of that area and will be from one to three hours duration. Each examination will be graded by the 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 five 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, II, III, and IV 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 comprehensive examinations, it should be understood that the comprehensive 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 page 43.
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 supervisory 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 supervisory 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.

In order to gain the experience that comes from teaching, satisfactory service as a teaching assistant for two academic years is required (unless a specific exemption is recommended by the supervisory committee).

Qualifying Examinations. The Qualifying Examination 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 pass the examinations in four out of five areas, and 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 a 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 four, two with high pass, by the time five 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
Geology is one of the broadest of all sciences because of its dependence on fundamentals of biology, chemistry, mathematics, and physics as applied to the study of the earth. As a result, undergraduate students are expected to obtain a broad background in the other sciences as well as a concentration in geology. This bachelor's degree program is designed to provide the geology major with a broad foundation that will prepare him for employment in industry or with various governmental agencies as well as the necessary training to continue study in graduate school.

The graduate program in geology allows the student to specialize in nearly all of the major areas of concentration. Because of the geographic and geologic location of the University in a rapidly expanding urban center of coastal Florida, there are a number of areas of specialization which are being emphasized. These include coastal geology, hydrogeology, low temperature, and pollution geochemistry, geology of carbonate rocks and phosphate deposits. All of these are closely related to local problems of the environment.

In addition to the staff in the Department of Geology, there are a number of geologists on the faculty in the Department of Marine Science located in nearby St. Petersburg. Close ties are maintained between the two departments and students interested in marine aspects of geology are encouraged to take advantage of this situation for both course work and research.

Requirements for the B.A. Degree:

I. Geology Courses (49 cr. hrs.)
- GLY 210 (4)
- GLY 211 (4)
- GLY 212 (4)
- GLY 302 (5)
- GLY 361 (4)

II. Supporting Courses (45-41 cr. hrs.)
- CHM 211-213 (12)
- MTH 211 and 212 (8) or MTH 123 and 302 (8)
- PHY 201-206 (15) or PHY 301-306 (12)

Plus one additional course in mathematics, statistics, or computer science as approved by the student's advisor.

III. General Distribution Courses (60 cr. hrs. excluding waivers)
- The student is required to satisfy the General Distribution requirements of the College of Natural Sciences. See page 92.

IV. Liberal Education Electives
- The student must satisfy 24 hours of liberal education electives as described in item 4 of the graduation requirements of the College of Natural Sciences (See page 93.)

IV. Free Electives (Including General Distribution waivers) (41-47 cr. hrs.)
- 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. A foreign language, preferably French, German or Russian, is strongly recommended, especially for those students who anticipate continuing for a doctorate in graduate school.

An entering student anticipating a major in Geology is advised to enroll in GLY 210, 211, 212 and CHM 211, 212, 213 in the freshman year and to seek curriculum counseling with a Geology adviser.

Teacher Education Programs:

Prospective secondary school teachers desiring to teach science at the secondary level should include basic courses in Geology and related sciences as part of their curriculum.

For information concerning the M.S. degree program for junior college teachers, see page 64.

Requirements for the M.A. Degree:

Requirements for admission to the Division of Graduate Studies and general graduate curriculum guidelines are given on pages 39-43.

Students are admitted for graduate work in Geology if they present the requisite background in Geology and supporting sciences. The bachelor's degree with a major in Geology or a major in other sciences with strong supporting program in geosciences is recommended. Students who wish to enter the graduate program in Geology without the proper background may be required to take some undergraduate courses without receiving credit toward their master's program. In addition, a formal summer field course is strongly recommended.

The curriculum for a Geology graduate student will vary depending on the area interest and thesis topic of the individual. A minimum of 45 credit hours is required for the master's degree of which a minimum of 24 credits must be in courses numbered 600 or above. Although a written thesis in the student's field of specialization is normally required, an equivalent amount of course work in Geology may be substituted if the program is approved in advance by the graduate committee of the Department. Satisfactory performance on a comprehensive examination covering the student's course work and thesis is also required.
grade. Beyond the required 60 hours, courses may be taken S/U grade, subject to any requirements that the student’s college may have on S/U grading.

The interdisciplinary major is not necessarily an adequate preparation for entrance into a graduate program in the natural sciences. However, by the proper addition of science and mathematics credits beyond the minimum, the degree can serve as a strong preparation for employment or graduate work in a wide range of interdisciplinary fields, such as biochemistry, biophysics, geochemistry, geophysics, meteorology, microbiology, oceanography, and space sciences.

■ MARINE SCIENCE (OGY)

The Department of Marine Science has its headquarters at the St. Petersburg campus, a former U.S. Maritime base on Bayboro Harbor, Tampa Bay. There are excellent dockside, classroom, laboratory, and research facilities. The Department has accumulated many major items of research equipment and operates a fleet of small vessels from 14 to 36 feet in length. The majority of the graduate students in marine science are supported through research assistantships based upon many grants and contracts that support both inshore and deep sea research projects.

Requirements for the M.A. Degree:

General requirements are given on pages 42-43. A minimum of 45 credits must include OGY 521, 531, 541, and 551 unless the student, as determined by this graduate committee, has had the equivalent of one or more of these courses.

The student may emphasize biological, 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 will usually move to St. Petersburg to complete his course work and thesis research.

■ MATHEMATICS (MTH)

Requirements for the B.A. Degree:

The courses taken to satisfy the Group I and Group II requirements below will constitute the major program referred to in the general graduation requirement of the College of Natural Sciences.

I. Mathematics Requirements (47 cr. hrs.)

Majors must complete at least 47 credits in mathematics courses above the 100 level, including MTH 302 (5), 303 (4), 304 (4), 305 (4), 309 (3), and 323 (4). In addition, except for majors in mathematics for teaching, the following sequence is required: MTH 405 (3), 406 (3), and 407 (3). Majors in mathematics for teaching must have MTH 423 (3), and 424 (3).

II. Mathematics Related Courses (21-26 cr. hrs.)

Majors, except for majors in mathematics for teaching, must take PHY 301-302, 303-304, and 305-306 and one of the following sequences:

1. AST 301, 302 and one of ASTM 413, 443, 521, 522, 533, or 536.

2. BIO 201, 202, 203.

3. CHM 211, 212, 213.

4. GLY 210, 211, 212.

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. General Distribution Courses (60 cr. hrs. excluding waivers)

Majors must satisfy the General Distribution requirements of the College of Natural Sciences, which must include (or show competence in) one of the following sequences:

FRE 101, 102
GER 101, 102
RUS 101, 102

Courses taken by a student to satisfy the Group II (Mathematics Related) requirements may not be used toward the General Distribution requirements of the College of Natural Sciences.

IV. Liberal Education Electives

The student must satisfy 24 hours of liberal education electives as described in item 4 of the graduation requirements of the College of Natural Sciences (See page 93).

Suggested upper level courses for a major in mathematics are:

MTH 401 (4) MTH 531 (4)
MTH 511 (4) and
MTH 520 (4) Electives
MTH 523 (4)

Variation in course selection for special needs is to be done in consultation with the appointed adviser.

The following is a suggested course program for the first two academic years:

Fall Quarter (I) Winter Quarter (II) Spring Quarter (III)
MTH 122, 123 Freshman Year MTH 122, 123
MTH 304, 323 Sophomore Year MTH 305, 309 Two MTH electives

Students with a strong background in high school mathematics may omit either or both MTH 122, 123 with the consent of the chairman.

Teacher Education Programs:

For information concerning the degree programs for secondary school teachers and junior college teachers, see pages 57, 62, and 64 of this Bulletin.

Requirements for the M.A. Degree:

General requirements for graduate work are given on pages 42-43.

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.
Requirements for the Ph.D. Degree:

In addition to the general University requirements for the Ph.D. degree, on page 43, 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.

### PRE-MEDICAL SCIENCES AND PROFESSIONAL

#### Clinical Chemistry Program

(See page 96)

#### Medical Technology (MET)

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 in one of the affiliated hospitals or clinical laboratories. The following courses must be maintained. To be eligible for entrance into the program's professional qualifications may be admitted to some professional schools as early as the completion of the junior year of pre-medical work.

### Pre-Medical Sciences Program

The pre-medical sciences program provides a complete array of courses and educational experiences necessary for preparing oneself for admission to a professional school. Pre-medical science 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 professional 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 professional school to which the student will be applying. Part of these additional requirements may be fulfilled by the following courses:

- Chemistry: CHM 321, 341, 351
- Mathematics: MTH 211, 212, 213, (or MTH 122, 123, 302, 303, 304)
- Biology: BIO 331, 401, 402, ZOO 311

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 some professional schools as early as the completion of the junior year of pre-medical work.

### B.A. Degree for Medical and Dental Students

Students who are admitted to a medical or dental school after completing their junior year at USF may be awarded the B.A. degree in Interdisciplinary Natural Sciences from the College of Natural Sciences subject to the following conditions:

1. Transfer of a minimum of 45 hours in science courses from an approved medical or dental school.
2. In attendance at the University of South Florida, the minimum requirements from the Interdisciplinary Natural Sciences major must be fulfilled as follows:
   - A 3.5 credit hours with at least a "B" average (2.0) in those credit hours completed at the University of South Florida.

B. Completion of a sequence of courses constituting a major program with courses in a department of concentration and supporting courses in related departments. There must be a minimum of 36 credit hours in the discipline of major concentration and a minimum of 24 credit hours in supporting courses in the College of Natural Sciences outside the discipline of major concentration. The 36 credit hours in the discipline of major concentration must be in courses applicable to a major in that department (and the student must earn a 2.0 grade point average in these courses). The 24 credit hours in supporting courses must be taken in courses applicable to a major in that department and must include a minimum of three courses at the 300 level or above. The student must earn 2.0 grade point averages in all attempted course work of both
major concentration and supporting courses, except for any courses graded S/U only, all courses must be taken by letter grade.

3. Credit in the following courses:
   BIO 201, 202, 203
   CHM 211, 212, 213, 331, 332, 333, 334, 335, 336
   PHY 201, 202, 203, 204, 205, 206

4. A minimum of 30 credits from the following courses:
   BIO 331, 401, 402
   CHM 321, 341, 351
   MTH 211, 212, 213
   ZOO 311

5. The General Distribution requirements of the College of Natural Sciences as approved by the student’s adviser.

6. At least 30 credit hours with letter grades must be earned in the College of Natural Sciences.

7. The last 45 credit hours prior to transfer to a medical or dental school must be in residence at the University of South Florida.

Application for the baccalaureate degree must be received no later than two years from the date of entrance into the professional school.

PHYSICS (PHY/PHS)

Requirements for the Baccalaureate Degree:
The Physics department offers both the B.A. degree and the B.S. Degree. The requirements for these degrees are:

I. Physics Courses

   - **B.A. Physics (PHY) — 45-51 cr. hrs.**
     - PHY 201-206 (15) PHY 309 (4)
     - PHY 315 or** (3) PHY 508 (3)
     - PHY 301-306 (12) PHY 509 (3)
     - PHY 307 (3) PHY 341 (3)
     - PHY 407 (3) PHY 441 (2)
     - PHY 507 (3)

   - **B.S. Physics (PHS)—56-63 cr. hrs.**
     - PHY 201-206 (15) PHY 323 (4)
     - PHY 315 or* (3) PHY 331 (4)
     - PHY 301-306 (12) PHY 405 (3)
     - PHY 307 (3) PHY 437 (3)
     - PHY 407 (3) PHY 421 or
     - PHY 507 (3) PHY 517 or
     - PHY 309 (4) PHY 523 (4)
     - PHY 508 (3) PHY 415 or
     - PHY 509 (3) PHY 501 or
     - PHY 341 (2) PHY 541 (3 or 4)
     - PHY 441 (2)

   *Credit will not be given for both general physics sequences PHY 201-206 and PHY 301-306.

II. Supporting Courses in the Natural Sciences

   - **B.A. and B.S. Physics — (33 cr. hrs.)**
     - CHM 211-213 (12) MTH 401 (4)
     - MTH 302-305 (17)

III. General Distribution Requirements

   - **(60 cr. hrs. excluding waivers)**
     - The student is required to complete the General Distribution requirements of the College of Natural Sciences (See page 92). Selection of a foreign language, preferably French, German, or Russian, is also strongly recommended.

IV. Liberal Education Electives

   - The student must satisfy 24 hours of liberal education electives as described in item 4 of the graduation requirements of the College of Natural Sciences (See page 93).

V. Free Electives (Including General Distribution waivers)

   - **B.A. Physics (PHY):** 47-53 cr. hrs.
   - **B.S. Physics (PHS):** 35-42 cr. hrs.

Teacher Education Programs:

For information concerning the degree programs for secondary school teachers and junior college teachers, see pages 57 and 64 of this Bulletin.

Requirements for the M.A. Degree:

General requirements are given on page 43. 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 a decision has been made concerning the student’s academic goals, the duties of the Graduate Adviser will be assumed by an Advisory Committee appointed by the department chairman. The Advisory Committee will have the right and the responsibility to add special requirements to meet any deficiency in the student’s background.

The student desiring the M.A. degree with a thesis is required to take a minimum of 45 credits no more than nine of which may be for PHY 681, 691, and 699. Of these 45 credits, 24 must be in courses numbered 600 or above. Required courses are PHY 537, 541, 607, 631, and 641. The Advisory Committee will administer a comprehensive examination before recommending that a degree be granted.

The student desiring the M.A. degree without a thesis is required to take a minimum of 45 credits, no more than three of which may be for PHY 681 and 691. Of these 45 credits, 24 must be in courses numbered 600 or above. Required courses are PHY 541, 542, 543, 605, 608, 633, 637, and 641. The Advisory Committee will administer a written and an oral comprehensive examination before recommending that a degree be granted.

Teacher Education Programs

The College of Natural Science offers B.A. and M.A. degree programs for secondary school teachers and the M.A. degree for junior college teachers.

B.A. Degree Program for Secondary School Teachers:

The College of Natural Science in cooperation with the College of Education offers degree programs in Mathematics (MAE), in Botany (BOE), in Chemistry (CHE), in Physics (PHE), in Zoology (ZOE), and in Science (SCE). Because requirements exist in both colleges, a student will have an adviser in each college. At the outset the planned courses in mathematics and science must be approved by the student’s adviser in the College of Natural Sciences.

There are two options available to the student to satisfy the science portion of the program:

1. The student may complete the requirements of the departmental major. Departmental majors in Botany and Zoology may be found in this section of the catalog under the heading Biology. The departmental requirements for Chemistry, Mathematics, and Physics are found in this section of this catalog under the respective headings in Chemistry, Mathematics, and Physics.

2. The student may complete requirements of the Interdisciplinary Natural Sciences major with concentration in Biology, Chemistry, Physics, and Mathematics. A complete description of this major is found on page 98. This major is particularly appropriate for Science Education majors (SCE).

Prospective students should consult the College of Education portions of this bulletin under the heading “Science Education (SCE)” for the required education courses and sample programs.
M.A. Degree Program for Secondary School Teachers:

The College of Natural Sciences in cooperation with the College of Education offers the M.A. degree in Mathematics (MAE) and in Science (SCE). In science, concentrations are available in Biology, Chemistry, and Physics. Because requirements exist in both colleges the student will have an adviser in each college. At the outset the planned courses in mathematics and science must be approved by the student's adviser in the College of Natural Sciences.

The University requirements for the M.A. degree are found on page 43. Mathematics majors must complete a minimum of 51 quarter hours; science majors must complete at least 27 quarter hours in the discipline of concentration. For requirements in education the student should consult the College of Education portion of this bulletin entitled "Master's Level Degree Programs - Science Education (SCE)."

M.A. Degree Program for Junior College Teachers:

The M.A. degree program for junior college teachers is available in the College of Natural Sciences with specializations in astronomy, biology, chemistry, geology, mathematics, or physics. Students seeking certification to teach in the state of Florida may select either of the following options:

1. The student may complete the Master of Arts degree program in any department of the College of Natural Sciences and in addition enroll in at least 9 hours of Directed Teaching which is numbered 689 in the appropriate departmental course listing. The master's degree program is normally 45 credit hours. University requirements for an M.A. degree are found on page 43. The specific departmental requirements are found under the appropriate departmental description of this portion of the bulletin.

2. The student may complete the M.A. degree in a program offered jointly by the College of Natural Sciences and the College of Education. This program requires 36 hours in mathematics or science specialization courses which must be approved by the student's adviser in the College of Natural Sciences; 9 hours are required in Professional Education courses and 0-9 hours are required in internship depending on the amount of teaching experience of the student. For requirements in education, the student should consult the College of Education portion of the bulletin entitled "Junior College Teaching Program."
The College of Nursing offers an upper division program in nursing that leads to a Bachelor of Science degree with a major in nursing. The program is designed so that students with appropriate preparation equivalent to two years of college level study can enroll in the nursing major and complete requirements for the degree in the equivalent of two additional years of full-time study. Students may meet all requirements at the University of South Florida or they may complete lower division prerequisites elsewhere and transfer to USF for the nursing major. Students wishing to enroll as freshmen at USF need the same requirements as other applicants for admission to the University and should follow the admission procedures outlined elsewhere in the Bulletin.

The practice of professional nursing involves problem-solving and decision-making based on knowledge from the humanities, the physical, biological, social and behavioral sciences. Shortages of qualified personnel, technological advances and increasing demands for health care services have brought changes in the functions and responsibilities of those in the health care professions. As a result, nursing practice has become increasingly complex and demanding in terms of knowledge and skills required to assume added responsibilities and functions. The goal of this program is to provide students with opportunities to develop cognitive, affective and psychomotor skills basic to general nursing practice in any setting where professional nursing services are provided: acute care hospitals, community health agencies, extended care facilities, industry, physicians' offices, military health services, the American Red Cross, the Peace Corps and so on. The program will also focus on interpersonal and leadership skills essential to meeting the responsibilities of professionals in the health care system and as responsible citizens. An additional goal is that of assisting students to establish investigative and independent study habits that will persist throughout a lifetime of professional growth and development.

Graduates of this program are eligible for admission to examinations leading to licensure to practice as professional nurses in the State of Florida or to apply for licensure in other states. Graduates also have the educational background necessary for graduate study in nursing to prepare for expanded roles in clinical nursing practice or for teaching, administration, research and other leadership responsibilities.

Admission to the College

The College of Nursing determines eligibility of candidates to enter the nursing major at the junior level. All students wishing to enroll in nursing must submit an application for admission to the College of Nursing at least two quarters prior to anticipated enrollment (e.g., winter quarter for enrollment in fall quarter of the forthcoming academic year). Applications can be obtained by contacting the Office of the Dean, College of Nursing.

Minimum requirements for admission include:
1. Completion of 90 quarter hours or 60 semester hours of college level work with a cumulative average of "C" or better.
2. Completion of the University general distribution requirements in English composition, mathematics, social science, and humanities.
3. Completion (with a "C" average or better) of a sequence of courses equivalent to Chemistry 211, 212, 213
   Biology 201, 202, 203
4. Completion (with a "C" average or better) of introductory psychology and sociology or the equivalent. At least one additional course in each of these areas (preferably courses in human growth and development, group dynamics, social and cultural relationships, etc.) will be required.
5. Completion of an additional physical or biological science course (e.g., anatomy, physiology, microbiology) will be required.
6. United States citizenship or Declaration of Intention (a requirement to write the licensing examination and to practice nursing in Florida).
7. Evidence of high school graduation or equivalency. (Also a requirement under Florida law.)

Transfer

The requirements for students wishing to transfer from other institutions to enroll in the nursing major follow the procedures for transfer students outlined in the USF Bulletin and the procedure outlined above for admission to the College of Nursing.

Limitation of Enrollment

The grade and course requirements mentioned above are minimal. The College of Nursing has to set limitations on enrollment based on availability of faculty, laboratory facilities and resources for clinical nursing practice. Therefore, admissions will be on a selective basis in which attention will be directed toward overall academic performance, academic performance in sciences basic to nursing, nature of courses taken and degree of difficulty, individual goals and interests and other factors pertinent to the purposes of this program and professional nursing practice.

Admission of Registered Nurses

Since this is a newly developing program, it is not possible to accept graduates of diploma and associate degree programs into the nursing major until goals for that program have been enunciated and tools for determining advanced placement in nursing have been developed. It is our intent to admit registered nurses with appropriate advanced standing as soon as possible and College of Nursing personnel are available to provide academic counseling relative to the fulfillment of lower division prerequisites or other individual concerns relating to eligibility for admission when the program is available.

Courses in Nursing

Full information regarding each nursing course will be available as approval is received from the appropriate University Committees. Following is the curriculum for the upper division major that has been approved by the Florida State Board of Nursing:

<table>
<thead>
<tr>
<th>Junior Year</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 300</td>
<td>Community Health Resources</td>
<td>(3)</td>
<td></td>
</tr>
<tr>
<td>NUR 301</td>
<td>Human Anatomy</td>
<td>(3)</td>
<td></td>
</tr>
<tr>
<td>NUR 302</td>
<td>Nutrition Level</td>
<td>(3)</td>
<td></td>
</tr>
<tr>
<td>NUR 303</td>
<td>Nursing Process I</td>
<td>(3)</td>
<td></td>
</tr>
</tbody>
</table>
Nursing courses will require substantial theory and nursing practice in care of the physically and mentally ill, the young and the old, the acutely and chronically ill. They will also provide opportunities for learning in health maintenance, preventive and rehabilitative services and for functioning as members of nursing and health care teams in highly responsible and complex patient care settings. Learning experiences in nursing will be developed and guided by registered professional nurses with graduate preparation in clinical nursing. Nursing practice experience will be provided in a variety of institutions and agencies involved in the delivery of nursing services.

Students will be responsible for arranging their own transportation to clinical nursing assignments and for providing the required uniforms and equipment.

**Requirements for Graduation**

Students will be certified for graduation with a Bachelor of Science degree, major in nursing, upon the completion of a minimum of 180 quarter hours distributed among general education, related science and nursing courses.
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. Social and behavioral sciences provide the student with an adequate background and knowledge for later application in business, government, and social service professions, either upon graduation or upon completion of additional graduate study.

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 study.

Admission to the College

Students may be admitted by application to the college and are encouraged to apply early in their freshman year.

Application for admission to the college is made in the Office of the Coordinator of Advising. Upon admission the student 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; however, the student assumes the responsibility for meeting all University, college, and departmental requirements.

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

General Requirements for Degrees

The College of Social and Behavioral Sciences currently offers one undergraduate degree: Bachelor of Arts. These requirements (referred to on page 32 of this catalog) are summarized as follows:

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.
   (A maximum of 4 quarter hours physical education course credit may be counted toward graduation.)

2. 60 hours of general distribution courses as required by the University in the areas of English Composition, Humanities/Fine Arts, Mathematics/Quantitative Methods, Natural Sciences, and Social and Behavioral Sciences. (See Distribution Requirements, page 31). It should be noted that a student is allowed to apply a maximum of 12 hours in a single department toward distribution requirements.

a. Area I — English Composition: ENG 101, 102, 103.

b. Area II — Humanities/Fine Arts: AMS, ART, CLS, DAN, ENG (excluding 100, 101-103), HUM, any Modern Language, MUS, PHI (excluding 303), REL, SPE, TAR,

c. Area III — Mathematics/Quantitative Methods: ECN 231, 331, ESC, MTH, PHI 303, SSI 301.

d. Area IV — Natural Sciences: AST, BIO, BOT, CHM, GLY, NAS, OGY, PHY, PHS, ZOO.

e. Area V — Social and Behavioral Sciences: AFA, AGE, ANT, CJP, ECN 100, EDF 377, GPY, HTY, POL, PSY, SOC, SSI (excluding 301), WSP.

Advisers may suggest up to a maximum of 20 additional hours to count toward the general distribution requirements. Each student should check with his departmental adviser regarding these requirements.

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 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 complete at least 45 of the last 90 hours of his undergraduate credit in on-campus courses. The approval of the dean of the college granting the degree must be secured for any transfer credits offered for any part of these last 90 hours.

Most of the social and behavioral science majors require statistics, therefore, the student should take courses as appropriate to properly prepare himself. All social and behavioral science majors require clarity and accuracy of English expression.

The student must fulfill all the requirements for his major as indicated on the following pages, or receive written permission from the department chairman for any substitution or exemption.

Programs Leading to the Baccalaureate Degree

The College of Social and Behavioral Sciences offers a major in 13 fields as described in the following pages. In addition to the departmental majors, interdisciplinary majors are offered. (See Interdisciplinary Social Science, International Studies, and Social Science Education listed below.) Economics offers two
majors, one in the College of Social and Behavioral Sciences and the other in the College of Business Administration.

A Bachelor of Arts Degree is offered in the following:
- Afro-American Studies (AFA)
- Anthropology (ANT)
- Anthropology-Linguistics (ANL)*
- Criminal Justice (CJP)
- Economics (ECN)
- Geography (GPY)

**GRADUATE LEVEL DEGREE PROGRAMS**

Graduate level courses are now offered in most social and behavioral science areas and the Master of Arts degree is offered in the following:
- Anthropology (ANT)
- Geography (GPY)
- Gerontology (AGE)*
- History (HTY)
- Political Science (POL)
- Psychology (PSY)
- Rehabilitation Counseling (REH)
- Post-Baccalaureate Rehabilitation Counseling (REF)
- Sociology (SOC)

In addition to the Master of Arts degree offered from the College of Social and Behavioral Sciences, joint degrees are offered with the College of Education in Social Science Education, School Psychology, and the Junior College Teachers' Program.

*Offered by the Aging Studies Program

**SPECIAL NON-DEGREE PROGRAMS**

The Aging Studies undergraduate program consists of a core of courses designed for interested students. These courses are: AGE 301, 315, 325, 405. Additional information will be found in the Aging Studies Program section of the catalog.

The Leisure Studies Program is concerned with leisure in its broadest sense and provides a core of courses for interested students. This program is presently housed in the Department of Interdisciplinary Social Sciences and the courses are listed under Social Sciences (Interdisciplinary) (SSI) as SSI 413, 421, 522, 523, 525.

The Off-Campus Term Program offers a wide variety of opportunities for self-designed, supervised experiences for credit. This program is presently housed in the Department of Interdisciplinary Social Sciences and the courses are listed under Off-Campus Term (OCT).

**History (HTY)**
- Interdisciplinary Social Sciences (SSI)
- International Studies (INT)
- Political Science (POL)
- Psychology (PSY)
- Sociology (SOC)
- Social Science Education (SSE)**

*Offered jointly with the College of Language and Literature
**Offered jointly with the College of Education

The Department of Communicology (formerly Speech Pathology and Audiology) also offers a Master of Science degree in:
- Audiology (AUD)
- Post-Baccalaureate Audiology (AUF)
- 5-year program
- Aural (Re) Habilitation (ARH)
- Post-Baccalaureate
- Aural (Re) Habilitation (ARF)
- 5-year program
- Speech Pathology (SPP)
- Post-Baccalaureate
- Speech Pathology (SPF)
- 5-year program
- A Doctor of Philosophy degree is offered in:
- Psychology (PSY)

The Women's Studies Program consists of courses designed to deal with historical, anthropological, sociological, and psychological aspects of woman's role and of the female experience. This program is presently housed in the Department of Interdisciplinary Social Sciences and the courses are listed under Women's Studies (WSP).

The Human Services core of courses is expected to be offered beginning in Fall 1974. It is designed for students majoring in the traditional disciplines who wish a concentration in Human Services or a Human Services emphasis within the college major. The courses will be offered through the Interdisciplinary Social Sciences Department under the SSI prefix.

Social Science Building
PROGRAMS AND CURRICULA

AFRO-AMERICAN STUDIES (AFA)

Requirements for the B.A. Degree:
The major in Afro-American Studies consists of a minimum of 56 hours in the field specified as follows:

<table>
<thead>
<tr>
<th>Required Core</th>
<th>Plus three of</th>
<th>Courses</th>
<th>(32 cr. hrs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFA 230</td>
<td>AFA 343</td>
<td>(4)</td>
<td></td>
</tr>
<tr>
<td>AFA 333</td>
<td>AFA 481</td>
<td>(4)</td>
<td></td>
</tr>
<tr>
<td>AFA 334</td>
<td>AFA 483</td>
<td>(4)</td>
<td></td>
</tr>
<tr>
<td>AFA 335</td>
<td>AFA 490</td>
<td>(4)</td>
<td></td>
</tr>
<tr>
<td>AFA 336</td>
<td>AFA 491</td>
<td>(4)</td>
<td></td>
</tr>
</tbody>
</table>

Electives from other departments must be approved by the student’s adviser. There are no language or thesis requirements.

AGING STUDIES (AGE)

Undergraduate Program
Although no baccalaureate degree in gerontology is offered, the Aging Studies Program does provide a core of four courses at the undergraduate level. These courses range from AGE 301, Introduction to Gerontology, to AGE 405, Seminar in Selected Topics in Social Gerontology, and are designed as electives for students from a variety of areas, particularly the human service areas. More generally, the objective of the sequence of undergraduate courses is to provide students with a broad educational experience in gerontology. Additional information on the courses will be found in the Aging Studies Program section of the catalog.

Graduate Program
The primary objective of the graduate program in aging is to train personnel for leadership positions in the planning, development, delivery, and evaluation of community services for older persons. In keeping with this objective, the program offers a broad range of cross-disciplinary courses. As an important part of the training process, each graduate student spends a supervised internship for one academic quarter in a community agency or facility which provides services for older persons. A Master of Arts degree in Gerontology is awarded upon satisfactory completion of the requirements.

Requirements for the M.A. Degree in Gerontology:
The M.A. degree requires five university quarters of full-time study including one quarter of supervised field experience. Most of the courses required were developed specifically to meet the objectives of the program and are offered under the label “AGE”. The M.A. degree in Gerontology requires a minimum of 54 credit 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 (3) | AGE 610 (3) |
| AGE 502 (3) | AGE 691 (2) |
| AGE 503 (3) | AGE 692 (2) |
| AGE 507 (3) | AGE 693 (2) |
| AGE 603 (3) | AGE 694 (2) |
| AGE 606 (3) | AGE 695 (12) |

Majors are also required to take a minimum of 6 hours from the following:

| AGE 504 (2) | AGE 585 (1-3) |
| AGE 509 (2) | AGE 611 (1-6) |
| AGE 605 (4) | AGE 612 (1-6) |

Electives from other departments must be approved by the student’s adviser. There are no language or thesis requirements.

Admission Requirements
To be eligible for admission to the M.A. program, the applicant must:
1. Hold a baccalaureate degree or its equivalent from an accredited college or university.
2. Have a minimum score of 1000 on the Graduate Record Examination (total of Quantitative and Verbal Aptitude scores) plus a minimum grade point average of 2.5 (A = 4.0) on the last half of courses taken for the bachelor’s degree.
3. Have a minimum score of 800 on the Graduate Record Examination (total of Quantitative and Verbal Aptitude scores) plus a minimum grade point average of 3.0 (A = 4.0) on the last half of courses taken for the bachelor’s degree.

Preference is given to applicants who demonstrate commitment to or experience in programs for older persons. In addition to the University graduate studies application, a program application is required and should be obtained from the Aging Studies Program.

Because of the sequential nature of the graduate courses, entering students are ordinarily admitted only in the Fall Quarter (September) each year. At that time a new cycle of courses begins and runs for five academic quarters.

ANTHROPOLOGY (ANT/ANL)

Anthropology aims at comprehending man as a biological and social being. It is concerned with all forms of man through time and space. One consequence of this broad-ranging view is the presence within anthropology of four branches: physical anthropology, archaeology, cultural anthropology, and linguistics. Exposure to anthropological information and the cross-cultural perspective produces heightened sensitivity in the student to the world about him. This helps the student to adopt an intellectual posture of disciplined skepticism with respect to any scheme which purports to define and account for regularities in human life.

The primary objective of the graduate program is to provide both basic education and specialized training in several specific fields of applied anthropology which will enable the graduate to render valuable and substantive service at local, state, national, and international levels in a context of non-academic, non-teaching employment. Graduates will be capable of assuming vital positions in the various agencies and institutions charged with understanding and acting on the complex problems which beset our society.

Requirements for the B.A. Degree in Anthropology (ANT):
The major in Anthropology consists of a minimum of 44 credit hours in the field. Students may take more than this minimum if they desire. ANT 201 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 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.
Required Core Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 201</td>
<td>4</td>
</tr>
<tr>
<td>LIN 301*</td>
<td>4</td>
</tr>
<tr>
<td>ANT 311</td>
<td>4</td>
</tr>
<tr>
<td>ANT 321</td>
<td>4</td>
</tr>
</tbody>
</table>

Required Supporting Courses (12 cr. hrs. minimum from the following group)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 331</td>
<td>4</td>
</tr>
<tr>
<td>ANT 461</td>
<td>4</td>
</tr>
<tr>
<td>ANT 491</td>
<td>4</td>
</tr>
<tr>
<td>ANT 543</td>
<td>4</td>
</tr>
<tr>
<td>LIN 321</td>
<td>4</td>
</tr>
<tr>
<td>LIN 530</td>
<td>4</td>
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<tr>
<td>LIN 540</td>
<td>4</td>
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<td>LIN 541</td>
<td>4</td>
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<td>LIN 543</td>
<td>4</td>
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<tr>
<td>LIN 545</td>
<td>4</td>
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<tr>
<td>LIN 551</td>
<td>5</td>
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<tr>
<td>CLS 571</td>
<td>4</td>
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<tr>
<td>PHI 531</td>
<td>4</td>
</tr>
<tr>
<td>PSY 441</td>
<td>4</td>
</tr>
</tbody>
</table>

*A section of LIN 301 is for anthropology majors and requires ANT 201 as a prerequisite.

Requirements for the M.A. Degree

General requirements for graduate work are listed on pages 42-43 and should be studied carefully.

The student must complete 45 credit hours of graduate course work. All students must complete the four core seminar courses, then proceed to take minimally, one methods course, one selected topics course, and one regional problems course in one of the three tracks (medical anthropology, urban anthropology, field archaeology). In addition, each student must: complete a statistics course and two courses outside the department chosen in mutual agreement by the student and his committee; successfully pass the comprehensive examination; undertake graduate research; and write a thesis. The student must maintain a "B" average in all course work.

I. COURSES REQUIRED OF ALL STUDENTS

A. Core Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 601</td>
<td>3</td>
</tr>
<tr>
<td>ANT 611</td>
<td>3</td>
</tr>
</tbody>
</table>

B. Additional Requirements

Two elective courses outside the department; one statistics course;

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 621</td>
<td>3</td>
</tr>
<tr>
<td>ANT 631</td>
<td>3</td>
</tr>
</tbody>
</table>

II COURSES IN ONE OF THREE TRACKS

A. Medical Anthropology Track

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 641</td>
<td>4</td>
</tr>
<tr>
<td>ANT 651</td>
<td>4</td>
</tr>
</tbody>
</table>

B. Urban Anthropology Track

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 644</td>
<td>4</td>
</tr>
<tr>
<td>ANT 654</td>
<td>4</td>
</tr>
</tbody>
</table>

C. Field Archaeology Track

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 647</td>
<td>4</td>
</tr>
<tr>
<td>ANT 657</td>
<td>4</td>
</tr>
</tbody>
</table>

COMMUNICOLY

(AUD/AUF/ARH/ARF/SPP/SPF)

A Master of Science degree is offered through the Department of Communicology that is structured to meet the preparation requirements of the American Speech and Hearing Association for the Certificate of Clinical Competence or the national basic certification requirements of the Council on Education of the Deaf. In addition to the core subject material each student may elect to pursue a program of specialization in the areas of Speech Pathology, Audiology or Aural (Re)Habilitation.

Undergraduate students enroll in a five-year program terminating in the Master of Science degree in Speech Pathology, Audiology, or Aural (Re)Habilitation. Students may apply for acceptance in the M.S. degree program upon attaining Junior Class standing, completion of the CLY 300-level course sequence with a 3.0 grade average, and submitting Graduate Record Examination scores. Students may not apply for a baccalaureate degree. Programs are planned through the master's degree at the time of acceptance.

Applicants holding a baccalaureate degree from an accredited college or university will be eligible for admission to the fifth year of the M.S. program if the following minimal requirements are met:

1. Submission of a cumulative score of 1000 for the Graduate Record Examination Aptitude Tests plus a grade point average of 2.8 (A = 4.0) for the last half of their undergraduate course work; or
2. Submission of a cumulative score of 850 for the Graduate Record Examination Tests plus a grade point average of 3.0 (A = 4.0) for the last half of their undergraduate course work.

Requirements for the M.S. Degree in Speech Pathology — Post-Baccalaureate (SPP):

General requirements for graduate work are to be found in the section of this bulletin titled "Division of Graduate Studies." 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 requirements 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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLY 511</td>
<td>6</td>
</tr>
<tr>
<td>CLY 513</td>
<td>6</td>
</tr>
<tr>
<td>CLY 571</td>
<td>6</td>
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<tr>
<td>CLY 572</td>
<td>6</td>
</tr>
<tr>
<td>CLY 574</td>
<td>6</td>
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<tr>
<td>CLY 575</td>
<td>4</td>
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<tr>
<td>CLY 576</td>
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<td>CLY 577</td>
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<td>CLY 578</td>
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<td>CLY 579</td>
<td>4</td>
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<tr>
<td>CLY 580</td>
<td>4</td>
</tr>
<tr>
<td>CLY 583</td>
<td>4</td>
</tr>
<tr>
<td>CLY 598</td>
<td>1-12</td>
</tr>
</tbody>
</table>

Requirements for the Combined Undergraduate/Graduate M.S. degree in Speech Pathology (SPP):

A minimum total of 225 credits is required for the combined undergraduate/graduate M.S. program. In addition to the General Distribution requirements the following courses will be required for all programs:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLY 301</td>
<td>6</td>
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<tr>
<td>CLY 302</td>
<td>6</td>
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<tr>
<td>CLY 311</td>
<td>6</td>
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<tr>
<td>CLY 312</td>
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<tr>
<td>CLY 313</td>
<td>6</td>
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<tr>
<td>CLY 498</td>
<td>1-12</td>
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<td>CLY 511</td>
<td>6</td>
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<td>CLY 513</td>
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<td>CLY 575</td>
<td>4</td>
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<tr>
<td>CLY 576</td>
<td>4</td>
</tr>
<tr>
<td>CLY 577</td>
<td>4</td>
</tr>
</tbody>
</table>
Post-sufficient coursework and practicum to meet the American Speech and Hearing Association for the Certificate of Clinical Competence.

Requirements for the M.S. Degree in Audiology — Post-Baccalaureate (AUD):

General requirements for graduate work are to be found in this bulletin under the section titled “Division of Graduate Studies.” A minimum of 45 credits is required as well as sufficient coursework 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 the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>CLY 512</td>
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<tr>
<td>CLY 513</td>
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<td>CLY 571</td>
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<td>CLY 575</td>
<td>(4)</td>
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<td>CLY 579</td>
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<td>CLY 580</td>
<td>(4)</td>
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<tr>
<td>CLY 583</td>
<td>(4)</td>
</tr>
<tr>
<td>CLY 598</td>
<td>(1-12)</td>
</tr>
<tr>
<td>CLY 673</td>
<td>(4)</td>
</tr>
</tbody>
</table>

Requirements for the Combined Undergraduate/Graduate M.S. Degree in Audiology (ARF):

A minimum of 225 credits is required for the combined program. In addition to the General Distribution requirements the following courses will be required for all programs:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLY 501</td>
<td>6</td>
</tr>
<tr>
<td>CLY 502</td>
<td>6</td>
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<tr>
<td>CLY 511</td>
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<td>CLY 513</td>
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<td>CLY 514</td>
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<td>CLY 578</td>
<td>6</td>
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<tr>
<td>CLY 579</td>
<td>(4)</td>
</tr>
<tr>
<td>CLY 580</td>
<td>(4)</td>
</tr>
</tbody>
</table>

CRIMINAL JUSTICE (CJP)

Requirements for the B.A. Degree:

The Criminal Justice Program provides students pursuing a major with an indepth exposure to the total criminal justice system including law enforcement, detention, the judiciary, corrections, and probation and parole. The program, leading to a B.A. degree, concentrates on achieving balance in the above aspects of the system from the perspective of the criminal justice professional, the offender, and society.

The major in Criminal Justice has been developed in conjunction with Hillsborough Community College and consists of 72 credit hours including 12 credit hours in CJP 499 (Practicum). Students with a minimum of one year, full-time experience with an appropriate criminal justice agency will only be required to take four credit hours in CJP 499 thus reducing their major requirements to 64 credit hours. The following courses are required of all majors:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJP 201</td>
<td>(5)</td>
</tr>
<tr>
<td>CJP 301</td>
<td>(4)</td>
</tr>
<tr>
<td>CJP 302</td>
<td>(4)</td>
</tr>
</tbody>
</table>

Students will also be required to take four courses for a total of 18 credit hours which are to be offered by Hillsborough Community College. The specific Hillsborough Community College courses to be taken will depend upon the student’s major and career goals. Eighteen additional hours in Criminal Justice courses, to be selected by the student in conjunction with his major adviser, complete the requirements. Transfer students who have completed an A.A. degree in any criminal justice field will be required to complete a minimum of 36 credit hours including CJP 315 (8), CJP 491 (3), CJP 499 (3-12). Students contemplating a major in criminal justice are urged to contact the departmental adviser.
ECONOMICS (ECN)

Requirements for B.A. Degree:

Economics is one of the vital disciplines investigating the complex problems and relationships in modern society. Indeed, the very breadth of economics has led to major areas within the discipline, including labor economics, international economics, urban and regional economics, monetary economics, public finance, industrial organization, comparative economic systems, and the like. In addition, students are given a sound grounding in economic theory and economic statistics to facilitate the investigation of the problems of human behavior, decision-making and organizational effectiveness in these problem areas. Students majoring in economics are encouraged to supplement their programs with appropriate courses in other social sciences. Political science, psychology, sociology and others contribute greatly to an enriched plan of study. Similarly, a variety of courses in economics are designed to permit students majoring in other disciplines to acquire the skills and insights provided in economics. Thus students have the option of broad interdisciplinary programs, a general grounding in many areas of economics, or a more intensive concentration in one of the areas within economics.

A student may earn a Bachelor of Arts degree with a major in Economics by completing satisfactorily 48 credits in Economics in addition to College requirements. Normally, these 48 credits include:

- ECN 201 (5)  
- ECN 202 (5)  
- ECN 301 (5)  
- ECN 323 (5)  
- ECN 231 (3)  
- ECN 331 (5)  

In addition to this core, students are encouraged to select 300-level courses in several of the applied areas during their junior year. The remaining economics electives may be selected from those 300 and 400 level courses that provide the type of program that best suit the students' interests and objectives.

Students interested in majoring in economics are encouraged to contact the departmental adviser for more information about the program. In addition, the department maintains a file describing the varied career opportunities for economists in business, government and education.

GEOGRAPHY (GPY)

Requirements for the B.A. Degree:

A major in geography consists of 50 credit hours as follows:

- Required core courses (40 cr. hrs.)
  - GPY 301 (5)
  - GPY 302 (5)
  - GPY 303 (5)
  - GPY 371 (5)
  - GPY 403 (5)
  - GPY 405 (5)
  - GPY 407 (5)
  - GPY 409 (5)

World Geography  
Meterology  
Economic  
Cartography

Any 10 hours in GPY 400-or-500-level courses.

Requirements for the M.A. Degree:

General requirements for graduate work are given on pages 42-43.

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, 507, 603, 605, 607, and 699. Up to eight 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, 507, 601, 603, 605, 607, and 689. Up to two 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 quarters hours is required for a major in history. HTY 100 and 16 hours of 200-level courses, or their equivalent, constitute the lower level requirements. HTY 487, 491 and 492 constitute the upper level requirements for the degree. At least 16 hours of course work must be drawn from the 300-400 level. With the prior written consent of the student's adviser, majors may take up to eight (8) hours of course work offered by other departments. Majors may apply these hours toward meeting the course requirements in history. The course work undertaken outside the Department of History must compliment the student's program in history.

In addition, history majors must take ENG 350 "Advanced Expository Writing" (unless waived by the student's adviser). It is recommended that students take SPE 201 "Fundamentals Of Speech Communication," LLI 200 "Use of the Library," and 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 1877; Field II, American history since 1877; Field III, Early Modern European history; Field IV, Modern European history; Field V, Ancient and Medieval history; Field VI, Latin American history.

In addition to the general requirements of the University, a candidate is required to complete a total of 48 credit hours divided as follows: 8 hours of core courses; 16 hours in a major field; 8 hours in a minor field; 8 hours of thesis, and 8 hours of electives. Of the 48 hours, at least 30 must be in formal, regularly scheduled course work, 24 of which must be at the 600 level. Subject to the satisfaction of above requirements, courses at the 500 level are acceptable as part of a planned degree program and in special circumstances major advisers may approve up to 8 hours at the 400 level with the definite understanding that additional and superior work will be required of the graduate student. 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 (SSI/INT)

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 of Interdisciplinary Social Sciences includes several related programs and course sequences. It coordinates the college major (SSI) and offers a B.A. degree in International Studies. In addition, the department provides several courses which were formerly part of the Basic Studies College program as a service to all students. These courses include SSI 201, 202, 383, formerly known as CBS 201, 202, 203 (Behavioral Science) and SSI 100 and 300 which now substitute for CBS 301 and 302 (American Idea). They constitute part of the University's distribution requirements.

**Requirements for the B.A. Degree in Interdisciplinary Social Sciences (SSI):**

The college major offers students whose educational and vocational interests and objectives cross disciplinary lines an opportunity to undertake a program of study individually designed to serve those interests and objectives. That program of study must include 64 credits in courses offered in the college of which 12 must be taken in courses bearing the SSI prefix (Interdisciplinary Social Sciences) and one of these must be SSI 301, Social Science Statistics.

Within these parameters each student's program of study is to be evolved in consultation with and must be formally approved by the major adviser. The program of study must include an area of concentration of at least 20 credits in one discipline; it will normally be expected to include a second area of concentration with either a disciplinary or multidisciplinary focus. The choice of areas of concentration and of courses within them is to be directly related to the educational goals of the student and such as to provide an educational experience of excellent quality.

A different kind of interdisciplinary major for prospective teachers of social studies is described under the College of Education requirements.

**Requirements for the B.A. Degree in International Studies:**

The major in International Studies is designed to enable students to undertake programs of study based upon the course offerings of not less than three departments of the college, which will emphasize (a) preparation for careers in international activities, or (b) the study of particular international themes or topics, or (c) the study of particular regions or cultures.

The program of study is developed by each student in consultation with the major adviser so as to best serve the individual's educational goals. The program is to include not less than 48 credits. Of these 24 (6 courses) must be in the international studies offerings of the Department of Interdisciplinary Social Sciences, bearing the prefix SSI.

**Required Core Courses (24 cr. hrs.).**

- SSI 300 (4) One of the following:
- SSI 339
- SSI 341 (4)
- SSI 361 (4)
- SSI 449 (4)
- SSI 491 (4)
- SSI 347 (4)

**One of the following with international content:**

- SSI 383 (2-5)
- SSI 481 (1-4)
- SSI 485 (1-4)

The additional 24 credits (6 courses) required must be selected from course offerings of at least two other departments which have international, regional, or cultural content.

**Required Supporting Courses**

18 cr. hrs. (or equivalent proficiency) of appropriate foreign language.

**Suggested General Distribution Courses or Electives:**

- ANT 201 (4) 
- ENG 350 (5)
- ECN 201 (4) 
- SPE 201 (5)
- ECN 202 (4) 

Students will be provided with advice as to choices of other courses offered throughout the University which will best reinforce and complement their major program. Each student's program must be planned with the international studies adviser who is empowered to make appropriate substitutions when educationally justified. Up to nine credits may be substituted for these requirements by successfully passing SSI 395 (1-9).

**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 421. Sport in Society
- SSI 522. Leisure Theory
- SSI 523. Leisure Planning: Community and State
- SSI 525. Leisure Policy
POLITICAL SCIENCE (POL)

Requirements for the B.A. Degree:

A minimum of 44 credit hours is required for a major. The core curriculum consists of 8 credit 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 credit hours. While some courses may be listed under two fields, a course may be used only once to fill a field requirement.

The undergraduate curriculum in political science is composed of the following:

Required Core Courses

(8 cr. hrs.)

POL 199 (4)

or

POL 201 (4)

or

POL 203 (4)

and

SSI 301 (4)

Electives from three of the four fields (36 cr. hrs.)

Field I

American Government

POL 338 (4)

POL 341 (4)

POL 345 (4)

POL 347 (4)

POL 431 (4)

POL 432 (4)

POL 434 (4)

POL 441 (4)

POL 443 (4)

POL 455 (4)

POL 463 (4)

POL 530 (4)

Field II

Public Administration & State and Local Government

POL 351 (4)

POL 453 (4)

POL 454 (4)

POL 455 (4)

POL 457 (4)

POL 520 (4)

POL 525 (4)

POL 527 (4)

POL 530 (4)

Field IV

Comparative Politics & International Relations

POL 311 (4)

POL 331 (4)

POL 333 (4)

POL 338 (4)

POL 405 (4)

POL 410 (4)

POL 415 (4)

POL 421 (4)

POL 425 (4)

POL 428 (4)

POL 436 (4)

POL 438 (4)

POL 550 (4)

POL 561 (4)

The following are to be used as elective hours only and may not be used to fill a field requirement:

POL 481 (1-8)

POL 571 (4)

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 pre-legal 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, political, 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 University of South Florida and numerous other testing centers throughout the state. 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 Department of Political Science, University of South Florida.

Requirements for the M.A. Degree:

General requirements for graduate study are given on pages 42-43.

The student must complete a minimum of 45 credit hours of graduate level courses. At least 24 hours must be at the 600 level. The minimum of 30 credit 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. A required number of core courses must be taken by all students in the graduate program.

A minimum of 28 credit hours must be taken in political science; 8 credit hours of approved electives may be taken outside the Department. All graduate students must write a thesis (9 credit hours) or petition for substitution with 12 credit hours of regular courses. 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 full-time graduate student for one quarter or two summer sessions.

More detailed instructions may be obtained from the Department of Political Science.

PSYCHOLOGY (PSY)

Requirements for the B.A. Degree:

Majors must complete at least 42 credit hours in the field. All majors must complete PSY 201 (5), SSI 301 (4), PSY 311-312 (4), and select four courses as follows: one of PSY 402 or 441 (4); one of PSY 403 or 404 (4); one of PSY 405 or 445 (4); and one of PSY 452 or 455 (4). In addition, 12 elective credits in psychology courses must be completed. PSY 411 (4) 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.

Admission to Graduate Study:

Applications for admission to the M.A. or Ph.D. degree program are considered only once per year, for admission into the program in September of that year. The deadline for completed applications is March 1. A completed application includes a complete transcript of college work, a copy of scores on the GRE Aptitude Test, and three letters of recommendation (preferably from college instructors). Admission to the program
is on a competitive basis. Details concerning the program, including a description of the credentials needed to be competitive with other applicants, are available from the Chairman, Graduate Admissions Committee, Department of Psychology, USF, Tampa, Florida 33620.

Requirements for the M.A. Degree:

General requirements for graduate work are given on pages 42-43.

The student must complete 50 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 five of the following nine courses: PSY 609, 612, 614, 634, 635, 636, 638, 639, and 641. The selection of these courses will be made by mutual agreement of the student and his advisory committee. Students with prior work in these areas may waive any of these courses by successfully passing a special examination given by the Psychology Department. Successful waiver may be used to reduce the overall credit hours requirement, if approved by the Psychology Department. A research thesis, PSY 699, is required and the student must successfully pass an oral examination on the thesis as well as maintain a B average in 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 (PSE). (See College of Education, page 63.)

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 43.

1. Reading knowledge of two foreign languages, or substitution for either or both languages by demonstrated competency in an area or areas approved by the Psychology Department. Two substitutive areas currently approved are computer usage skills and electronics skills.

2. Supervised undergraduate psychology teaching experience.

3. A one-year internship in an approved clinical facility for Ph.D. students in the Clinical Psychology program.

4. Six-months of internship in approved industries or community agencies for Ph.D. students in the Industrial-Organizational Psychology program.

**REHABILITATION COUNSELING (REH/REF)**

Requirements for the M.A. Degree:

General requirements for graduate work are given on pages 42-43.

The M.A. program in Rehabilitation Counseling requires a minimum of 60 credit hours and offers the student the flexibility of entering while he is a University senior (REF) or after he has earned a baccalaureate degree (REH).

Minimum admission requirements for students electing the 5-year approach include completion of 135 quarter hours, a score of at least 1000 on the GRE or a B average on all work beyond 90 credit hours, and a personal interview. He must complete all General Distribution requirements and may not apply for a baccalaureate degree.

Minimum admission requirements for students entering the program as regular graduate students after they have earned a baccalaureate degree include a score of at least 1000 on the GRE or a B average during the last two years of college work, and a personal interview.

The GRE must be taken by all students entering the program whether or not they meet the B average requirement.

Requirements for graduation for all students include a minimum of 60 credit hours in the post-baccalaureate program and a total of no less than 225 for those in the 5-year program. The following 47 hour core courses are consistent with national certification standards for rehabilitation counselors and must be taken by all students:

- REH 501 (5)
- REH 502 (5)
- REH 503 (5)
- REH 507 (4)
- REH 508 (2)

Additional hours to complete either the minimum of 60 credit hours or the minimum of 225 credit hours may be elected from other REH offerings or from related graduate programs, with the consent of the student’s adviser. There are no language or thesis requirements; however, a comprehensive examination is required involving both written and practical work.

**SOCIOLGY (SOC)**

Requirements for the B.A. Degree:

The major consists of a minimum of 40 credit hours. The following courses may not be counted in the 40-hour minimum for the major but may be elected as additional courses: SOC 181, 251, 401, 481, 505. A model program of recommended sequences may be obtained from the Department of Sociology.

**Required Core Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 201</td>
<td>4</td>
</tr>
<tr>
<td>SOC 315</td>
<td>4</td>
</tr>
<tr>
<td>SOC 321</td>
<td>4</td>
</tr>
<tr>
<td>SSI 301</td>
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</table>

**Additional Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>SOC 331</td>
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</tr>
<tr>
<td>SOC 433</td>
<td>4</td>
</tr>
<tr>
<td>SOC 535</td>
<td>4</td>
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</tbody>
</table>

**Requirements for the M.A. Degree:**

A minimum of 45 credit hours and a thesis.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>SOC 611</td>
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</tr>
<tr>
<td>SOC 621</td>
<td>4</td>
</tr>
<tr>
<td>SOC 623</td>
<td>5</td>
</tr>
</tbody>
</table>

University requirements for graduate study are given on pages 42-43.

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 Department of Sociology.
The present site of the St. Petersburg campus was acquired from the federal government in 1965. In the fall of 1968 a modest offering of resident credit courses was made available to local students of junior, senior or graduate standing. By the 1973-74 academic year, in excess of 1,700 students were enrolled in courses on the St. Petersburg campus. The continuity and scope of academic programs has been strengthened each year, thus permitting more students to enroll on a full-time basis. The expansion of academic programs has been accompanied by a corresponding increment of student services, library facilities, administrative services, and student organizations.

Academic Programs
The St. Petersburg campus, which offers only upper level and graduate courses, enrolls students in programs from the Colleges of Education, Engineering, Natural Sciences, Social and Behavioral Sciences, Language and Literature, and Business Administration. All courses taken on the St. Petersburg campus receive full resident credit. Academic requirements for graduation from the University of South Florida are the same for students on either campus.

The St. Petersburg campus resident faculty numbers approximately 55. This core of resident faculty members is supplemented by professors who commute from the Tampa campus, thus increasing the scope and variety of academic services available to students on the St. Petersburg campus.

At present, complete upper level academic programs leading to the baccalaureate degree are available to students majoring in: elementary education, engineering technology, English, psychology, history, engineering administration, accounting, management, sociology, English education, geography and social science education.

Partial baccalaureate and master's programs are available to students who wish to major in political science, philosophy, religion, criminal justice, mass communications, exceptional child education, vocational education, guidance, mathematics, marketing, finance, economics, aging and speech communication.

While at present it is not possible for students to complete work at the master's level on the St. Petersburg campus, each quarter selected graduate courses are offered by the Colleges of Business Administration, Education, Engineering, Social and Behavioral Sciences, Language and Literature, and Natural Sciences.

Library Facilities
The library resources of the St. Petersburg campus are adequate to satisfy most of the student's library needs. In addition, a system for intercampus library loans has been developed, making it possible for St. Petersburg campus students to secure circulating materials from the Tampa campus library without going to Tampa. Of course, if students wish to travel to Tampa they have complete access to library facilities there.

Student Affairs
Counseling in vocational, social and personal matters is available through the Counseling Services. Job placement is also coordinated through the Office of Student Affairs.

Emergency medical service is provided for students who incur injury or illness while on campus. Comprehensive health care is available through the Health Center on the Tampa campus.

Financial Aid information is available in the Office of Student Affairs.

Student Activities. On-campus student activities include a swimming pool-recreation complex, billiard and ping pong tables, film series and a sports equipment check-out. In addition, many community cultural and recreational resources are available to students at a reduced price through a program of direct student subsidization. Membership in both professional and recreational clubs is also available to students.

Admissions
Admissions procedures for students entering the University may be completed through the Admissions Office on the St. Petersburg campus. Students wishing to contact the Admissions Office on the St. Petersburg campus may call St. Petersburg, 898-7411, ext. 266. Admissions policies for entrance into the University are the same on both campuses.
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 hyphen indicate variable credit:

**PHY 201-202. GENERAL PHYSICS (4:4)**
Credits separated by commas indicate unified courses offered in different quarters.

**HTY 211, 212. AMERICAN HISTORY (4,4)**

Course descriptions are listed under the following department and program headings (prefix in parentheses):

Accounting (ACC)  
Afro-American Studies (AFA)  
Aging Studies (Gerontology) (AGE)  
American Studies (AMS)  
Anthropology (ANT)  
Art (ART)  
Astronomy (AST)  
Biology (BIO)  
Botany (BOT)  
Microbiology (MIC)  
Zoology (ZOO)  
Chemistry (CHM)  
Classics and Ancient Studies (CLS)  
Communicology (CLY)  
Cooperative Education (COE)  
Criminal Justice (CJP)  
Dance (DAN)  
Developmental English (DEE)  
Developmental Mathematics (DMA)  
Developmental Reading (DRE)  
Developmental Study Skills (DRS)  
Economics (ECN)  
Education:  
Art Education (EDA)  
Curriculum (EDC)  
Elementary Education (EDE)  
English Education (EDT)  
Exceptional Child Education (EDS)  
Foreign Language Education (EDX)  
Foundations (EDF)  
Guidance (EDG)  
Health Education (HEN)  
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 Science Education (EDW)  
Speech Communication-English (EDT)  
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)  
Finance (FIN)  
Fine Arts (Interdisciplinary) (FNA)  
General Business Administration (GBA)  
Geography (GPY)  
Geology (GLY)  
History (HTY)  
History of Ideas (HII)  
Humanities (HUM)  
Interdisciplinary Language-Literature (LLI)  
Linguistics (LIN)  
Management (MAN)  
Marine Science (OGY)  
Marketing (MKT)  
Mass Communications (COM)  
Mathematics (MTH)  
Medical Technology (MET)  
Medicine (MED)  
Modern Languages:  
General Modern Language (MOL)  
Arabic (ARA)  
French (FRE)  
German (GER)  
Greek (GRE)  
Hebrew (HEB)  
Italian (ITA)  
Portuguese (POR)  
Romance (ROM)  
Russian (RUS)  
Spanish (SPA)  
Music (MUS)  
Natural Sciences (NAS)  
Nursing (NUR)  
Off-Campus Term (OCT)  
Philosophy (PHI)  
Physical Education, Elective (PEB)  
Physical Sciences (PHS)  
Physics (PHY)  
Political Science (POL)  
Psychology (PSY)  
Rehabilitation Counseling (REH)  
Religious Studies (REL)  
Senior Seminar (CBS)  
Social Sciences, Interdisciplinary (SSI)  
Sociology (SOC)  
Speech Communication (SPE)  
Theatre Arts (TAR)  
Women's Studies (WSP)

Cross-Listing of Departments and Programs Alphabetically by Prefix

<table>
<thead>
<tr>
<th>ACC</th>
<th>Accounting</th>
</tr>
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<tbody>
<tr>
<td>AFA</td>
<td>Afro-American Studies</td>
</tr>
<tr>
<td>AGE</td>
<td>Aging Studies (Gerontology)</td>
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<tr>
<td>AMS</td>
<td>American Studies</td>
</tr>
<tr>
<td>ANT</td>
<td>Anthropology</td>
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<table>
<thead>
<tr>
<th>ARA</th>
<th>Arabic (Modern Languages)</th>
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<tbody>
<tr>
<td>ART</td>
<td>Art</td>
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<tr>
<td>AST</td>
<td>Astronomy</td>
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<tr>
<td>BIO</td>
<td>Biology</td>
</tr>
<tr>
<td>BOT</td>
<td>Botany (Biology)</td>
</tr>
</tbody>
</table>
CBS Senior Seminar
CHM Chemistry
CJP Criminal Justice
CLS Classics and Ancient Studies
CLY Communicology
COE Cooperative Education
COM Mass Communications
DAN Dance
DEE Developmental English
DMA Developmental Mathematics
DRE Developmental Reading
DRS Developmental Study Skills
ECN Economics
EDA Art Education (Education)
EDC Curriculum (Education)
EDE Elementary Education (Education)
EFD Foundations (Education)
EDG Guidance (Education)
EDH Junior College Education (Education)
EDL Library-Audiovisual Education (Education)
EDM Music Education (Education)
EDN Natural Science-Mathematics Education (Education)
EDP Physical Education for Teachers (Education)
EDQ Measurement-Research-Evaluation (Education)
EDR Reading Education (Education)
EDS Exceptional Child Education (Education)
EDT English Education (Education)
EDV Vocational & Adult Education (Education)
EDW Social Science Education (Education)
EDX Foreign Language Education (Education)
EDY Humanities Education (Education)
EBG Basic Engineering (Engineering)
EGR Energy Conversion & Mechanical Design (Engineering)
EGS Industrial Systems (Engineering)
EGX Structures, Materials & Fluids (Engineering)
ENG English
ENV Environment
ESC Computer Service Courses (Engineering)
ETK Engineering Technology
FIN Finance
FNA Fine Arts (Interdisciplinary)
FRE French (Modern Languages)
GBA General Business Administration
GER German (Modern Languages)
GLY Geology
GPY Geography
GRE Greek (Modern Languages)
HEB Hebrew (Modern Languages)
HEN Health Education (Education)
HII History of Ideas
HTY History
HUM Humanities
ITA Italian (Modern Languages)
LIN Linguistics
LLI Interdisciplinary Language-Literature
MAN Management
MED Medicine
MET Medical Technology
MIC Microbiology (Biology)
MKT Marketing
MOL Modern Languages
MTH Mathematics
MUS Music
NAS Natural Sciences
NUR Nursing
OCT Off-Campus Term
OGY Marine Science
PEB Physical Education, Elective
PHI Philosophy
PHS Physical Sciences
PHY Physics
POL Political Science
POR Portuguese (Modern Languages)
PSY Psychology
REH Rehabilitation Counseling
REL Religious Studies
ROM Romance (Modern Languages)
RUS Russian (Modern Languages)
SOC Sociology
SPA Spanish (Modern Languages)
SPE Speech Communication
SSI Social Sciences, Interdisciplinary
TAR Theatre Arts
WSP Women's Studies
ZOO Zoology (Biology)

Basic Studies Course Number Changes

Effective Fall Quarter (1), 1973

Former CBS Courses
CBS 100
CBS 101, 102
CBS 109, 110
CBS 111, 112
CBS 114, 115
CBS 117 118
CBS 120, 121
CBS 123, 124
CBS 201, 202, 203
CBS 205, 206, 207
CBS 208, 209, 210
CBS 211, 212

New Prefix and Number
ENG 100
ENG 101, 102, 103
(M changed from two 4-hr. courses to three 3-hr.)
MTH 109, 110
(F changed from 5 to 4)
GER 101, 102
RUS 101, 102
SPA 101, 102
ITA 101, 102
SSI 201, 202, 383
BIO 205, 206, 207
(Phys. 4-hr. changed from 3 to 4)
FRE 201, 202

Former CBS Courses
CBS 214, 215
CBS 217, 218
CBS 220, 221
CBS 223
CBS 255, 256, 257
CBS 301, 302

New Prefix and Number
GER 201, 202
RUS 201, 202
SPA 201, 202
ITA 201
BIO 255, 256, 257
(SSI 100: cr. hrs. changed from 5 to 4)

CBS 308, 315, 316, 317
CBS 311, 312, 313
CBS 395
CBS 403, 404
CBS 405, 406, 407
CBS 409, 410

(Phys. 4-hr. changed from 5 to 4)
ACCOUNTING (ACC)


LOWER LEVEL COURSES

ACC 201. ELEMENTARY ACCOUNTING I (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 II (3)
PR: ACC 201. Accounting theory and practices for various equity structures.

UPPER LEVEL COURSES

ACC 300. 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 301. INTERMEDIATE ACCOUNTING I (5)
PR: ACC 300 or concurrent registration in ACC 300. Measurement theory and methodology underlying income measurement and reporting of financial position. The study of working capital including cash, time value analysis, receivables, inventories, and current liabilities.

ACC 302. INTERMEDIATE ACCOUNTING II (5)
PR: ACC 301. Continuation of theory and principles underlying financial statements, long-term liabilities, plant and equipment, investments, intangibles, owner's equity, tax allocation, and funds flow analysis.

ACC 401. ADVANCED ACCOUNTING (3)
PR: ACC 302; MTH 211 or College Algebra. 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; GBA 333. 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 primarily applicable to individuals.

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 it applies primarily to business enterprises.

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 301; ECN 331. 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.

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 SENIORS AND GRADUATE STUDENTS

ACC 501. ACCOUNTING CONCEPTS AND METHODOLOGY I (3)
A study of basic accounting principles including the recording of transactions and the preparation and interpretation of financial statements.

ACC 502. ACCOUNTING CONCEPT AND METHODOLOGY II (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; (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 405 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 decision. Tax planning and tax research are emphasized.

ACC 621. MANAGEMENT COST ANALYSIS AND CONTROL (3)
PR: 24 quarter hours of 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 (AFA)

Director & Associate Professor: F.U. Ohaebulam; Assistant Professors: J.W. Dudley, K.R. Glover; Instructor: M.E. Metz

LOWER LEVEL COURSES

AFA 230. INTRODUCTION TO AFRO-AMERICAN STUDIES (4)
Fundamental perspectives on the nature and meaning of the Afro-American experience and the role of Afro-American Studies in articulating major problems in American and world society. (Formerly AFA 130.)

AFA 334. AFRICAN HISTORY SINCE 1850 (4)
Survey of the colonial and post-colonial history of Africa. Emphasis on the impact of European and other alien influences on the continent, emergence of independent African states and post-independence problems of nation building and economic development.

AFA 335-336 AFRO-AMERICAN HISTORY (4,4)
A survey of the Afro-American history in Western Hemisphere. Emphasis on the experience in North America (AFA 335: 1493-1865; AFA 336: 1865-to present.) (Formerly AFA 261-262.)

AFA 337. BLACKS IN AMERICAN POLITICAL PROCESS (4)
An examination of the political experience of blacks in the American political process including their political socialization, and struggle to become effective participants in the American political process.

AFA 341. ARTS AND MUSIC OF THE AFRICAN PEOPLE (4)
An examination of the visual arts — painting, sculpture, architecture and music of African people in the Sub-Saharan Africa, the Caribbean and the United States. Particular attention to how blacks have expressed the meaning, suffering and triumph of their lives through legitimate theatre, visual arts, and musicals and the role of black artists in the historical struggle for black consciousness and liberation.

AFA 343. THE AFRICAN DIASPORA AND PAN-AFRICANISM (4)
An examination of the African Diaspora and the influence of African culture and civilization on the growth and development of world cultures. Emphasis on the extent to which African culture has enriched the development of mankind, the cultural significance of African voyages and migrations to Asia, Europe and the Americas, and the historical quest for racial and continental pan-Africanism including Garveyism.

AFA 428. GOVERNMENT AND POLITICS OF AFRICA (4)
Designed to provide the information and analytical tools necessary to interpret current Sub-Saharan African policies. Survey of political organizations in traditional African societies; politics under colonial rule; the struggle for independence, and post-independence politics.

AFA 431. SOCIAL INSTITUTIONS AND THE GHETTO (4)
A study of social institutions as they relate to the American Black ghetto, with emphasis on social systems operating within and on the ghetto. (Formerly AFA 302.)

AFA 432. BLACK AMERICANS IN THE AMERICAN ECONOMIC PROCESS (4)
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. (Formerly AFA 310)

AFA 438. AFRICA IN WORLD POLITICS (4)
Study of international relations in the new Africa including the relations of the new states with the major world powers and their role in the United Nations.

AFA 440. CONTEMPORARY BLACK PHILOSOPHY (4)
Major themes and participants in the Black liberation movement since 1950. (Formerly AFA 410)

AFA 442. GOVERNMENT AND POLITICS OF WEST AFRICA (4)
In depth study of government, political systems and processes in West Africa including political developments, ideologies, problems and prospects of political and economic development and military regimes in the area.

AFA 443. GOVERNMENT AND POLITICS OF EAST, CENTRAL AND SOUTHERN AFRICA (4)
In depth study of political developments, ideologies and modernization in East, Central and Southern Africa including race relations and white minority rule and Portuguese colonialism in Southern Africa.

AFA 444. EDUCATIONAL DEVELOPMENT IN THE AFRICAN WORLD (4)
An examination of educational systems and experiences of African peoples' cultural past and needs for their future. In tracing the development of education in the African world, close attention will be paid to changing structures and functions of education as manifestations of governmental needs and desires. Similarities and contrasts of African and Afro-American educational patterns will be explored.

AFA 481. RESEARCH AND FIELD STUDIES (1-4)
A course linking the study pursued by the student with research and work projects in the Tampa Black community.

AFA 483. SELECTED TOPICS IN AFRO-AMERICAN STUDIES (1-4)
Topics offered are selected to reflect student needs and faculty interests. In depth study in such areas as the Black Student and the American Educational Process; the Black Experience in the Americas; European Expansion in Africa to 19th century; Contemporary Economic Problems in Africa.

AFA 484. AFRICA AND THE UNITED STATES (4)
A consideration of the nature and character of African cultural survivals in America including an examination of the historical and current political, economic, and cultural relations between the United States and Africa.

AFA 485. DIRECTED READINGS (2-4)
Independent readings in a particular area of Afro-American Studies, selected by student and instructor.

AFA 491. SENIOR SEMINAR (4)
In-depth study of a particular topic in the area of Afro-American Studies. Individual research by students required.

AFA 499. SEMINAR IN TEACHING BLACK STUDIES (4)
An examination of instructional media, resources and approaches relevant to the study and teaching of the black experience.
AGING STUDIES (GERONTOLOGY) (AGE)

Director & Associate Professor: A.J.E. Wilson III; Professor: S.V. Saxon; Associate Professor: W.P. Mangum; Assistant Professor: D. Kenerson; Adjunct: R.L. Davis.

UPPER LEVEL COURSES
AGE 301. INTRODUCTION TO GERONTOLOGY (3)
This course is designed to be an introduction to the study of aging. The aging process is viewed from a multi-disciplinary perspective including the biological, psychological, and sociological aspects of aging.

AGE 315. APPLIED GERONTOLOGY (4)
PR: CI. This course is designed to provide an integration of empirical data in the study of aging with practical experience in working with older people. Students will spend time actually working with older people in an agency or institutional setting and then will use experiences in conjunction with other available data to gain perspective in this field.

AGE 325. CULTURE, SOCIETY AND AGING (4)
This course is designed to allow the student to consider aging within the context of culture and society. Emphasis will be given to cultural attitudes toward aging in the U.S. and to implications of cultural attitudes for human behavior.

AGE 405. SEMINAR IN SELECTED TOPICS IN SOCIAL GERONTOLOGY (3)
PR: CI. This course will provide upper level students with a seminar experience in discussing topics of interest and social relevance in the field of aging. Each student will be required to prepare a seminar paper and present it.

FOR SENIORS AND GRADUATE STUDENTS
AGE 501. PHYSIOLOGY OF AGING (3)
PR: CI. Lectures and discussion concerned with the biological bases of the aging phenomenon as it occurs on the levels of the cells, organs, tissues, and organism.

AGE 502. PSYCHOLOGY OF AGING (3)
PR: CI. Consideration of basic psychological processes as related to the aging process, changes in functioning and perceptual motor and cognitive-areas from the developmental perspective.

AGE 503. SOCIOLOGICAL ASPECTS OF AGING (3)
PR: CI. Examines, within a sociological frame of reference, the inter-relationships between the aged (or aging) and the structure and function of the social system and its major institutionalized subsystems.

AGE 504. AGING AND PERSONALITY (2)
PR: CI. An introduction to personality theory and concepts of adjustment with an overview of counseling techniques and rehabilitative efforts with the aged.

AGE 507. ECONOMICS AND AGING (3)
PR: CI. A study of the basic processes of macroeconomic thought in the modern mixed economy and what influences these processes have on the subject of aging. The course will include discussions on economic issues pertinent to aging such as income maintenance, problems, theories of consumption and income, and labor force problems.

AGE 509. LEISURE FOR THE AGING (2)
PR: CI. This seminar consists of general data and observations on trends and research in the leisure field, directed theoretical analysis of these studies as they pertain to the elderly and contact with progress by visits, interviews, and reports.

AGE 585. DIRECTED READINGS (1-3)
PR: CI. A reading program with topics in gerontology conducted under the supervision of a faculty member.

FOR GRADUATE STUDENTS ONLY
AGE 603. SOCIAL RESEARCH METHODS APPLIED TO GERONTOLOGY (3)
PR: CI. Systematic study of the methods and techniques employed in social, psychological, and health studies of population groups. Directed toward the consumers of research findings — persons whose positions call for the ability to interpret, evaluate, and apply the findings produced by others.

AGE 605. INTERPERSONAL RELATIONS PRACTICUM (4)
PR: CI. A practicum involving students in group and individual settings in interaction with older persons. Content will include implications from interviewing, counseling, and current conceptions of personality in the aged.

AGE 606. INSTITUTIONAL ADMINISTRATION (3)
PR: CI. This course deals with the management problems and practices in the administration of institutions in the field of aging. Consideration is given to the economics of aging, federal and state legislation, the management of people, and fiscal management.

AGE 608. HUMAN RELATIONS IN ORGANIZATIONS (3)
PR: CI. An analytical view of the modern human relations movement with stress on development since the 1930's. Incorporates the philosophy of the behavioral sciences and alternative theories and relates them to the management process.

AGE 610. ADMINISTRATIVE APPLICATIONS OF DEMOGRAPHY (3)
PR: CI. Acquaints the student with various sources of demographic data and its use. Emphasis is placed upon applicability in program planning and student experience in locating, tabulating, and interpreting data from selected publications.

AGE 611. PROJECTS IN AGING I (1-6)
PR: CI. In-depth study of special topics with the objective of identifying problems for research and developing research proposals.

AGE 612. PROJECTS IN AGING II (1-6)
PR: AGE 611 and CI. A continuation of AGE 611.

AGE 691, 692, 693, 694. SEMINAR IN SOCIAL GERONTOLOGY (2)
PR: CI. Designed to give the graduate student an opportunity to integrate concepts within the field of gerontology and relate these to other fields of study. Guest lecturers from a variety of disciplines participate in the seminar.

AGE 695. FIELD PLACEMENT (12)
PR: CI. Internship in an agency or setting. An assignment to an agency or organization engaged in planning or administering programs for older people or in providing direct services to older people (S/U only.)

AMERICAN STUDIES (AMS)

LOWER LEVEL COURSES
AMS 201. ISSUES IN AMERICAN CIVILIZATION (2)
Through lecture and demonstration an examination of such topics as natural environment and the quality of life, Architecture and American society, leisure and technology, jazz music, the role of higher education in America, the American success myth and the status of the arts in America.

UPPER LEVEL COURSES
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.

AMS 313. REGIONALISM, NATIONALISM, INTERNATIONALISM (5)

Heritage of the nineteen twenties and thirties: selected interdisciplinary materials are used to examine the relationships among regionalism, nationalism and internationalism during the twenties and thirties. Emphasis is placed on the measure of cultural nationalism attained by the United States during this period. Elective for non-majors.

AMS 321. ARCHITECTURE AND THE AMERICAN ENVIRONMENT (4)

By means of slides, lectures and discussion the course examines 350 years of American architectural history.

ANTHROPOLOGY (ANT)


LOWER LEVEL COURSES

ANT 201. INTRODUCTION TO ANTHROPOLOGY (4)

A general survey of physical anthropology, archaeology, linguistics, and cultural anthropology.

UPPER LEVEL COURSES

ANT 311. PHYSICAL ANTHROPOLOGY (4)

PR: ANT 201 or CI. The comparative study of human physical variations and origins.

ANT 321. ARCHAEOLOGY (4)

PR: ANT 201 or CI. The comparative study of past cultures and societies.

ANT 331. CULTURAL ANTHROPOLOGY (4)

PR: ANT 201 or CI. The comparative study of cultures and societies.

ANT 371. THE ANTHROPOLOGICAL PERSPECTIVE (4)

Anthropological concepts relevant to contemporary life. Designed for non-anthropology majors. May not be counted for credit toward an anthropology major.

ANT 401. SELECTED TOPICS IN LINGUISTIC ANTHROPOLOGY (3-6)

PR: LIN 301, ANT 201 or CI. A detailed study of current issues such as the relationship of language and culture, ethnographic semantics, or paralinguistic phenomena. May be repeated as topics vary.

ANT 411. SELECTED TOPICS IN PHYSICAL ANTHROPOLOGY (3-6)

PR: ANT 201-311 or CI. A detailed study of current issues such as paleo-pathology, human races, or social biology. May be repeated as topics vary.

ANT 421. SELECTED TOPICS IN ARCHAEOLOGY (3-6)

PR: ANT 201-321 or CI. A detailed study of current issues such as the development of civilization, regional chronologies, or historical archaeology. May be repeated as topics vary.

ANT 431. SELECTED TOPICS IN CULTURAL ANTHROPOLOGY (3-6)

PR: ANT 201-331 or CI. A detailed study of current issues such as socio-cultural change, ethnopsychology, or social structure. May be repeated as topics vary.

ANT 441. REGIONAL ANTHROPOLOGY (3-6)

PR: ANT 201-331 or CI. A survey of cultures and societies in a limited area or region. May be repeated as topics vary: (1) Indians of North America; (2) Cultures of Africa; (3) Cultures of the Pacific; (4) Cultures of Mesoamerica; (5) Specified areas such as Asia, Southeastern U.S. or Florida depending on current interest and staff.

ANT 461. HISTORY OF ANTHROPOLOGICAL THEORY (4)

PR: LIN 301, ANT 311-321-331 or CI. Survey and analysis of the development of theory and method.

ANT 471. METHODS IN ANTHROPOLOGY (3-6)

PR: CI. Study and application of a selected field or laboratory method in anthropology. Prerequisites will depend on area of study and will be determined by consultation with instructor in advance of registration. May be repeated as topics vary: (1) Archaeological Field Methods; (2) Field Methods in Cultural Anthropology (3) Laboratory Methods in Archaeology; (4) Laboratory Methods in Physical Anthropology; (5) Others as specified.

ANT 491. SENIOR SEMINAR IN ANTHROPOLOGY (4)

PR: Senior standing with major in anthropology, or equivalent. A seminar approach to the integration of the fields of anthropology. Designed to help the student refocus on and come to a better understanding of the nature of anthropology.

FOR SENIORS AND GRADUATE STUDENTS

ANT 571. SEMINAR IN ANTHROPOLOGY (3-6)

PR: CI. Topics to be chosen by students and instructor.

ANT 581. INDIVIDUAL RESEARCH (3-6)

PR: CI. Individual guidance in a selected research project.

ANT 585. DIRECTED READING (1-6)

PR: CI. Individual guidance in concentrated reading on a selected topic in anthropology.

FOR GRADUATE STUDENTS ONLY

ANT 601. SEMINAR IN ANTHROPOLOGICAL LINGUISTICS (3)

PR: Graduate standing. One of four core courses required of all students. A critical survey of anthropological linguistics focusing on relevant contributions to applied anthropology. Open to non-majors.
ANT 611. SEMINAR IN PHYSICAL ANTHROPOLOGY (3)
PR: Graduate standing. One of four core courses required of all students. A critical survey of physical anthropology focusing on relevant contributions to applied anthropology. Open to non-majors.

ANT 621. SEMINAR IN ARCHAEOLOGY (3)
PR: Graduate standing. One of four core courses required of all students. A critical survey of archaeology focusing on relevant contributions to applied anthropology. Open to non-majors.

ANT 631. SEMINAR IN CULTURAL ANTHROPOLOGY (3)
PR: Graduate standing. One of four core courses required of all students. A critical survey of cultural anthropology focusing on relevant contributions to applied anthropology. Open to non-majors.

ANT 634. ANTHROPOLOGY TODAY (4)
PR: CI. A graduate level survey of contemporary anthropology primarily intended for graduate students in Social Science Education.

ANT 641. METHODS IN MEDICAL ANTHROPOLOGY (4)
PR: Three of the core courses, or CI. Field techniques, methods of collection, analysis, and interpretation of data. May be repeated up to 8 credit hours as topics vary. Open to non-majors. Lec-lab, field trips.

ANT 644. METHODS IN URBAN ANTHROPOLOGY (4)
PR: Three of the core courses, or CI. Field techniques, methods of collection, analysis, and interpretation of data. May be repeated up to 8 credit hours as topics vary. Open to non-majors. Lec-lab, field trips.

ANT 647. METHODS IN FIELD ARCHAEOLOGY (4)
PR: Three of the core courses, or CI. Field techniques, methods of collection, analysis, and interpretation of data. May be repeated up to 8 credit hours as topics vary. Open to non-majors. Lec-lab, field trips.

ANT 651. SELECTED TOPICS IN MEDICAL ANTHROPOLOGY (4)
PR: Three of the core courses, or CI. Current topical issues and problems in medical anthropology. May be repeated up to 8 credit hours as topics vary. Open to non-majors.

ANT 654. SELECTED TOPICS IN URBAN ANTHROPOLOGY (4)
PR: Three of the core courses, or CI. Current topical issues in urban anthropology. May be repeated up to 8 credit hours as topics vary. Open to non-majors.

ANT 657. SELECTED TOPICS IN FIELD ARCHAEOLOGY (4)
PR: Three of the core courses, or CI. Current topical issues and problems in field archaeology. May be repeated up to 8 credit hours as topics vary. Open to non-majors.

ANT 661. REGIONAL PROBLEMS IN MEDICAL ANTHROPOLOGY (4)
PR: Three of the core courses, or CI. Contemporary problems in medical anthropology in the context of a specific region. May be repeated up to 8 credit hours as topics vary. Open to non-majors.

ANT 664. REGIONAL PROBLEMS IN URBAN ANTHROPOLOGY (4)
PR: Three of the core courses, or CI. Contemporary problems in urban anthropology in the context of a specific region. May be repeated up to 8 credit hours as topics vary. Open to non-majors.

ANT 667. REGIONAL PROBLEMS IN ARCHAEOLOGY (4)
PR: Three of the core courses, or CI. Contemporary problems in archaeology in the context of a specific region. May be repeated up to 8 credit hours as topics vary. Open to non-majors.

ANT 681. GRADUATE RESEARCH (1-15)
PR: Successful passing of comprehensives and approval of a field work proposal by the student's committee. The implementation of a research project including data gathering and analysis, through an appropriate methodological and theoretical framework. May be repeated up to 15 credit hours. Open to majors only.

ANT 699. THESIS (1-6)
PR: Approval by the student's committee. A study in depth in anthropology approved by the thesis committee. May be repeated up to 6 credit hours. Open to majors only.

ARABIC (ARA)—see Modern Languages

ART (ART)


LOWER LEVEL COURSES

ART 201. VISUAL CONCEPTS I (4)
Studio problems supplemented by reading and discussion. Consideration of spatial organization of the two-dimensional surface.

ART 202. VISUAL CONCEPTS II (4)
Studio programs supplemented by reading and discussion. Consideration of three-dimensional organization of space and mass.

ART 301. BASIC SEMINAR (2)
Philosophical dimensions of art. Discussion of purposes of art and the relationship of art to life.

ART 304. DRAWING I (4)
PR: ART 201 and ART 301. Drawing as a means of formal organization. Introduction to intermediate drawing methods and media.

ART 310. INTRODUCTION TO ART (3)
An introductory course for the student who does not intend to major in art. (S/U only.)

ART 311. PAINTING I (4)
PR: ART 201 and ART 301. Intermediate problems in painting with an emphasis on the exploration of methods and media and the development of individual concepts.

ART 321. SCULPTURE I (4)
PR: ART 202 and ART 301. Intermediate problems in sculpture with emphasis on the exploration of materials and media and the development of individual concepts.

ART 331. CERAMICS I (4)
PR: ART 202 and ART 301. Intermediate problems in ceramics with an emphasis on the exploration of methods and media and the development of individual concepts.

ART 340. GRAPHICS I (4)
PR: ART 201 and ART 301. Introduction to the graphics media: Intaglio, Lithography, Silkscreen.

ART 361. PHOTOGRAPHY I (4)
PR: ART 201 and ART 301. Intermediate problems in photography with emphasis on the exploration of materials and media and development of individual concepts.

ART 401. DRAWING II (4)
PR: ART 304. Continued problems in drawing. May be repeated.
Film and Video Arts Sequence

ART 365. CINEMATOGRAPHY II (4)
PR: ART 301. Intermediate problems in cinematography with emphasis on the exploration of materials and media and development of individual concepts.

ART 464. INTRODUCTION TO THE PERSONAL FILM (4)
PR: ART 365. Comparison of philosophical and technical distinctions between the personal film and theatrical or commercial release.

ART 465. CINEMATOGRAPHY II (4)
PR: ART 365. Continued problems in cinematography. May be repeated.

ART 467. SOUND TECHNIQUES (4)
PR: ART 365. The recording and editing of sound for film. Collaboration with other departments, particularly Music and Theatre, is encouraged. To be taken concurrently with ART 465 or ART 565 whenever possible.

ART 482. VIDEO ARTS I (4)
PR: ART 201 and ART 301 and CI. A course designed to acquaint the student with the use and maintenance of primary portable equipment and introduction to the design and realization of creative TV presentation as an art form.

ART 483. VIDEO ARTS II (4)
PR: ART 482. An elaboration of portable recording techniques for use in individual art projects.

ART 484. SEMINAR IN VIDEO ARTS (4)
PR: ART 201 and ART 301. An examination of various aspects of transmission of visual images as they relate to the concerns of artists.

FOR SENIORS AND GRADUATE STUDENTS

Admission to all 500-level studio courses by Consent of Instructor.

ART 501. DRAWING (4)

ART 511. PAINTING (4)
PR: ART 411. Advanced problems in the various painting techniques. Emphasis on individual creative expression. May be repeated.

ART 521. SCULPTURE (4)
PR: ART 421. Advanced problems in the various techniques of sculpture. Emphasis on individual creative expression. May be repeated.

ART 531. CERAMICS (4)
PR: ART 431. Advanced problems in the various ceramic techniques, including throw and glaze calculation. May be repeated.

ART 541. LITHOGRAPHY (4)
PR: ART 441. Advanced problems in various lithographic techniques. Emphasis on individual creative expression. May be repeated.

ART 542. INTAGLIO (4)
PR: ART 442. Investigations into more complex intaglio processes including photoengraving and color printing procedures. Emphasis on personal conceptual development in graphic media. May be repeated.

ART 543. SILKSCREEN (4)
PR: ART 443. Advanced problems in the various silkscreen techniques. Emphasis on individual creative expression. May be repeated.

ART 561. PHOTOGRAPHY (4)
PR: CI. Advanced work in photography and related media leading to development of personal/expressive statements. May be repeated.

ART 570. CRITICAL STUDIES IN ART HISTORY (4)
PR: CI. Specialized intensive studies in art history. Specific subject matter varies. To be announced at each course offering. May be repeated.

ART 573. SEMINAR IN THE HISTORY OF ART HISTORY (4)
PR: Four courses in Art History at the 400 level, CI. An examination of the origins of Art History as a discipline and the changing nature of Art History from Vasari to the present.

ART 581. RESEARCH (1-6)
PR: CC. May be repeated.
ART 591. TECHNIQUES SEMINAR (2)
PR: ART 201, ART 202, ART 301 and Cl. Concentration in specialized technical data and process. May be repeated.

Film and Video Arts Sequence
ART 562. ADVANCED EDITING TECHNIQUES (4)
PR: ART 465. Focus on advanced techniques and theory of editing for the film artist. May be repeated.
ART 563. ADVANCED FILM TECHNIQUES (4)
PR: ART 465. Description and demonstration of special film manipulation techniques for the artist. Optical printing, infrared film, computer filmmaking, polyvision, television manipulated film. Students will create original experimental works. May be repeated.
ART 564. ANATOMY OF THE PERSONAL FILM (4)
ART 565. CINEMATOGRAPHY (4)
PR: ART 465. Advanced studio work using black and white, color and sound as technical and aesthetic factors in visual, artistic productions. May be repeated.
ART 566. ANATOMY OF THE COLLABORATIVE FILM (4)
PR: ART 465. Analysis of aesthetic and other selected aspects of film produced through collaborative efforts. May be repeated.
ART 567. SEMINAR IN THE PERSONAL FILM (4)
PR: ART 464, ART 465 and ART 566. Discussion of techniques, approaches and motivations open to and pursued by established film artists. May be repeated.
ART 568. SELECTED TOPICS IN THE HISTORY OF FILM (4)
PR: ART 569. In depth investigation of a selected period, development or school in the history of film as art. May be repeated.
ART 569. PURE CINEMA AS AUTONOMOUS VISUAL EXPRESSION (4)
PR: ART 461 or Cl. Consideration of historical development in cinematography emphasizing uses of special technical and visual possibilities unique to the aesthetics of the film art. May be repeated.
ART 582. VIDEO ARTS III (4)
PR: ART 483. An experimental approach to video-image thinking and the uses of video for the artist, demonstrating advanced special video techniques. May be repeated.

FOR GRADUATE STUDENTS ONLY
ART 601. DRAWING (4)
PR: Cl. May be repeated.
ART 611. PAINTING (4)
PR: Cl. May be repeated.
ART 621. SCULPTURE (4)
PR: Cl. May be repeated.
ART 631. CERAMICS (4)
PR: Cl. May be repeated.
ART 641. LITHOGRAPHY (4)
PR: Cl. May be repeated.
ART 642. INTAGLIO (4)
PR: Cl. May be repeated.
ART 643. SILKSCREEN (4)
PR: Cl. May be repeated.
ART 661. PHOTOGRAPHY (4)
PR: Cl. May be repeated.
ART 665. CINEMATOGRAPHY (4)
PR: Cl. May be repeated.
ART 670. ART HISTORY (4)
PR: Cl. May be repeated.
ART 681. RESEARCH (1-5)
PR: Cl. May be repeated.
ART 682. GRADUATE SEMINAR (2)
PR: Cl. Advanced course in the theoretical and conceptual foundations of the visual arts. The specific structure and content to be determined by the instructor. Must be repeated for a minimum of four hours.
ART 683. GRADUATE SEMINAR: DIRECTED TEACHING (2)
PR: Cl. Students will collaborate with faculty, teaching in areas of their concentration.
ART 684. GRADUATE SEMINAR: DOCUMENTATION (2)
PR: Cl. An advanced seminar focused on the problems of documenting in verbal form the development of a body of work in the visual arts.
ART 699. THESIS: PRESENTATION OF WORK (1)
PR: Consent of Graduate Committee. The final formal presentation of a body of works completed during the student's program.

ASTRONOMY (AST)

(See also the sections entitled Physical Sciences and Natural Sciences)

Chairman: H. K. Eichhorn-Von Wurmb; Professors: J. H. Hunter Jr., S. Sofia, R. E. Wilson; Associate Professors: E. J. Deviney Jr., C. A. Williams; Assistant Professor: H. Smith Jr., (visiting); Planetarium Director: J. A. Carr.

LOWER LEVEL COURSES
AST 203. DESCRIPTIVE ASTRONOMY I (5)
History of astronomy, celestial phenomena, timekeeping, astronomical instruments, properties of light, contents and elementary dynamics of the solar system. Descriptive approach with a minimum of mathematics. No credit for astronomy majors.
AST 204. DESCRIPTIVE ASTRONOMY II (5)
Distances, fundamental properties and evolution of stars; the sun as a star, unusual stars (exploding stars, pulsating stars, etc.); the nature of the Galaxy and other galaxies, cosmology. Descriptive approach with a minimum of mathematics. No credit for astronomy majors.
AST 271. ILLUSTRATIVE ASTRONOMY (4)
Constellations, use of small telescopes, etc., apparent motions of celestial objects, comets and meteors, seasons and weather. Current events in the space program. Planetarium and open sky demonstrations. Lecture-laboratory. No credit for astronomy majors.

UPPER LEVEL COURSES
AST 301. INTRODUCTORY ASTRONOMY I (5)
PR: MTH 212 or MTH 302 or Cl. Aspects of sky, coordinate systems, timekeeping, celestial phenomena, nature and properties of light, astronomical instrumentation, nature and dynamics of planets, satellites, comets, asteroids, etc. A quantitative first course for science and math majors.
AST 302. INTRODUCTORY ASTRONOMY II (5)
PR: MTH 212, AST 301 or Cl. Distances of stars, spectral classification, stellar atmospheres, stellar structure and evolution, binary stars, variable stars, star clusters, interstellar medium, the nature and dynamics of the Milky Way and other galaxies, cosmology. A quantitative introduction to stellar and extragalactic astronomy for science and math majors.
AST 311. ASTRONOMICAL LABORATORY I (1)
CR: AST 301, required of majors, open to non-majors. Exercises in connection with AST 301. Use of small telescopes, introduction to the use of small calculators.
AST 312. ASTRONOMICAL LABORATORY II (1)
CR: AST 302, required of majors, open to non-majors. Exercises in connection with AST 302. Use of small telescopes, introduction to the use of small calculators.

AST 351. HISTORY OF THE SCIENCE OF ASTRONOMY (5)
To familiarize seriously interested students with the history of Astronomy and the influence of this discipline on the development of human knowledge.

AST 371. CONTEMPORARY THINKING IN ASTRONOMY (5)
PR: Junior or senior standing or CI. Current concepts of astronomy and space science of general interest; background facts; artificial satellites, space probes; surface conditions of planets and evolution of the stars; cosmology. No credit for astronomy majors or mathematics majors.

AST 413. GEOMETRY AND KINEMATICS OF THE UNIVERSE (4)
PR: CI. Astronomical coordinate systems and their mutual relationships, navigation, time.

AST 443. STELLAR ASTROPHYSICS (5)
PR: AST 302 or CI, MTH 303. The physical characteristics of stars, their measurement, and their distribution. Analysis of stellar radiation. Double stars, associations, clusters, galaxies.

AST 481. UNDERGRADUATE RESEARCH (1-6)
PR: Senior or advanced junior standing and CI; Participation in professional research with a view to publication of results. May be repeated. (S/U only.)

AST 491. ASTRONOMY SEMINAR (1)
PR: Senior or advanced junior standing. May be repeated twice. (S/U only.)

AST 521. INTRODUCTION TO CELESTIAL MECHANICS (5)
PR: AST 302 or CI, MTH 302 and some knowledge of differential equations, or CI. The two-body problem, artificial satellites, elements of perturbation theory.

AST 522. BINARY STARS (4)
PR: AST 302 or CI, MTH 302 or CI. Principles used to find the properties of astrometric, eclipsing, spectroscopic and visual binaries.

AST 533. STELLAR CONSTITUTION AND EVOLUTION (4)
PR: AST 443 or CI, PHY 405. CR: MTH 405. Internal constitution of stars, physics of gas spheres, energy generation in stars, theories of stellar evolution.

AST 536. INTRODUCTION TO RADIO ASTRONOMY (4)
PR: AST 302 or CI, MTH 303. Radio telescopes; principles and applications. Main results in planetary, solar, galactic and extra-galactic radio astronomy. Radio galaxies and quasars.

AST 583. SELECTED TOPICS IN ASTRONOMY (1-6)
PR: Senior or advanced junior standing or CI. Intensive coverage of special topics to suit needs of advanced students.

FOR GRADUATE STUDENTS ONLY

AST 611. POSITIONAL ASTRONOMY (6)
PR: AST 413 or CI. The accurate determination of relative and absolute star positions and related problems.

AST 621. CELESTIAL MECHANICS (6)
PR: AST 521 or CI. Planetary theory, lunar theory, Hamiltonian systems, canonical variables, restricted three-body problem, artificial satellite theory, equilibrium and resonance. Certain topics will be emphasized according to the needs of the students.

AST 631. STELLAR ATMOSPHERES (4)
PR: AST 443 & MTH 406 or CI. Basic observational data. Thermodynamics of the gaseous state. Elements of spectroscopy. The transfer equation (continuum and lines). The problem of calculation of atmospheres.

AST 661. PHOTOMETRY (4)
PR: AST 302 or CI. MTH 305. Theoretical, observational and instrumental concepts required in astronomical photometry.

AST 681. GRADUATE RESEARCH (1-15)
PR: CI. May be repeated. (S/U only.)

AST 683. SELECTED TOPICS IN ASTRONOMY (1-6)
PR: CI.

AST 689. DIRECTED TEACHING (3-9)
Not applicable toward thesis degree requirements. Supervised teaching for graduate teaching assistants in elementary and/or laboratory courses. A formalized, structured activity wherein a faculty member, by discussion and assignments, considers the principles, rationale, and modus operandi of elementary college courses. Designed to train teaching assistants and to provide help and training to those graduate students who plan to follow a college teaching profession. (S/U only.)

AST 691. GRADUATE SEMINAR (2)
PR: CI. May be repeated. (S/U only.)

AST 699. MASTER'S THESIS (1-9)
PR: CI. (S/U only.)
BIO 255. SEX, REPRODUCTION, AND POPULATION (4)
The application of basic biological principles from subject areas to relevant problems and topics through the consideration of scientific and popular literature. For non-majors credit only. Qtr. I-IV (Formerly CBS 207)

BIO 256. EVOLUTION (4)
The application of basic principles of evolution with an emphasis upon man through the consideration of scientific and popular literature. For non-majors credit only. Qtr. I-IV (Formerly CBS 256)

BIO 257. READING AND RESEARCH (4)
Individual reading, classroom criticism, and evaluation of selected contemporary books reflecting biological principles. For non-majors credit only. Qtr. I-IV (Formerly CBS 257)

UPPER LEVEL COURSES

BIO 315. HISTOLOGICAL TECHNIQUES (5)
PR: BIO 201-203. Theory and practice of tissue fixation, embedding, sectioning, and staining; chromosomal squash preparations; nuclear isolation techniques; photomicrography. Lec.-lab.

BIO 331. GENERAL GENETICS (4)
PR: BIO 201-203. Introduction to genetics including the fundamental concepts of Mendelian, molecular, and population genetics. Lec. Qtr. I, II, III.

BIO 345. MAN'S BIOLOGICAL ENVIRONMENT (4)
PR: BIO 201-203. A biological consideration of man's deteriorating relationship with his environment. Emphasis on pollution, pesticides, and population. Qtr. II.

BIO 372. MAN, MICROBE, AND MOLECULE (4)
Origin of life, control of diseases, environmental quality, and the use of microorganisms as tools in searching for molecular explanations of living phenomena. For non-majors credit only. Qtr. II & IV (Formerly BOT 372)

BIO 401. CELL BIOLOGY I (5)
PR: CHM 331, 332, 333, 334, and BIO 331. A discussion of the concept and significance of the cell to biology; biological molecules and metabolic processes within the cell; cellular energy conversion systems; and control of cellular metabolism. Qtr. I, II, III. (Formerly ZOO 421)

BIO 402. CELL BIOLOGY II (5)

BIO 412. INTRODUCTION TO TROPICAL BIOLOGY (5)
PR: BIO 201-203 or CI. The tropical environment and its effect on plant and animal communities. Plant and animal interactions and man's impact on the environment.

BIO 431. EXPERIMENTAL GENETICS (4)
PR: BIO 331 or CI. Experimental analysis of genetic systems. Lec.-lab.: 2 hr. lect.; 2-3 hr. labs.

BIO 445. PRINCIPLES OF ECOLOGY (4)
PR: BIO 201-203. An introduction to the basic principles and concepts of ecology at the ecosystem, community, and population level of organization. Lec.-disc. Qtr. I, II, III.

BIO 465. ORGANIC EVOLUTION (4)
PR: BIO 331 or CI. An introduction to modern evolutionary theory. Lectures on population genetics, adaptations, speciation theory, phylogeny, human evolution, and related areas. Qtr. I (even-numbered years).

BIO 481. UNDERGRADUATE RESEARCH (1-6)
PR: CI. Individual investigation with faculty supervision. (Formerly BOT 481, ZOO 481.) (S/U only).

BIO 483. SELECTED TOPICS IN BIOLOGY (1-4)
PR: CI.

BIO 485. RESEARCH METHODS IN BIOLOGY I (2)
PR: CI. A laboratory course for advanced students to become acquainted with contemporary biological research instrumentation and techniques.

BIO 486. RESEARCH METHODS IN BIOLOGY II (2)
PR: CI. See BIO 485.

BIO 491. SEMINAR IN BIOLOGY I (1)
PR: CI. Senior or advanced junior standing. May be repeated once. (S/U only). (Formerly BOT 491, ZOO 491)

FOR SENIORS AND GRADUATE STUDENTS

BIO 510. CYTOLOGY (4)
PR: BIO 201-203. Survey of the structure and function of cytoplasmic and nuclear components of plant and animal cells. Lec.-lab. (Formerly BOT 510)

BIO 515. SUBCELLULAR CYTOLOGY (4)
PR: BIO 201-203. A review of biophysical techniques used in biology to include an introduction of X-ray diffraction, bright field, phase, ultra-violet, interference, and electron microscopy. The course will consist of three hours of lecture and one three-hour lab for demonstration of techniques. Lec.-lab.

BIO 522. NEUROPHYSIOLOGY (4)
PR: ZOO 421. A comparative analysis of the physiochemical basis and evolution of nervous systems and sensory mechanisms. Lec.-lab. Qtr. I.

BIO 532. MOLECULAR GENETICS (4)
PR: BIO 331. Detailed examination of DNA, RNA and protein synthesis; the effects of mutations on proteins, cellular control; selected aspects of viral, bacterial, and fungal genetics. Lec.-lab. Qtr. II. (Formerly BOT 532)

BIO 535. EVOLUTIONARY GENETICS (4)
PR: BIO 331 or CI. Examination of factors such as mutation, migration, natural selection, and genetic drift which modify the genetic structure of populations.

BIO 583. SELECTED TOPICS IN BIOLOGY (1-4)
PR: CI. Each topic is a course in directed study under supervision of a faculty member.

FOR GRADUATE STUDENTS ONLY

BIO 601. HISTORY OF BIOLOGY (3)
PR: CI. The historical development of biology with emphasis on the origin of important theories and principles.

BIO 612. CHROMOSOME STRUCTURE AND CHEMISTRY (4)
PR: BOT 510, BIO 512. Introduction to the molecular organization of the Eukaryotic chromosome.

BIO 615. ULTRASTRUCTURE TECHNIQUES IN ELECTRON MICROSCOPY (6)
PR: BIO 201-203, BIO 515 or CI. Discussion of theory and techniques in electron microscopy. Emphasis on preparation of biological specimens, electron microscopic optics and use of the electron microscope. Lec.-lab. (Formerly BOT 615)

BIO 616. BIOMETRY (4)
PR: MTH 211-213 or CI. An introduction to statistical procedures for research in the biological sciences. Experimental design, analysis of data, and presentation of results are emphasized. (Formerly ZOO 616)

BIO 636. POPULATION BIOLOGY (4)
PR: BIO 535, BIO 616 or CI. Introduction to the theory of population dynamics with emphasis on the genetic and ecocological components of population growth, natural selection, and competition between species. Lec.

BIO 651. MARINE PLANKTON SYSTEMATICS (4)
(Also listed as OGY 651, q.v.).

BIO 653. MARINE PLANKTON ECOLOGY (4)
(Also listed as OGY 653, q.v.).

BIO 681. GRADUATE RESEARCH (1-9)
PR: CI. (S/U only). (Formerly BOT 681, ZOO 681)

BIO 683. SELECTED TOPICS IN BIOLOGY (1-6)
PR: CI. (Formerly BOT 683, ZOO 683)

BIO 689. DIRECTED TEACHING (3-9)
Not applicable toward thesis degree requirements. Supervised teaching for graduate teaching assistants in elementary and/or laboratory courses. A formalized, structured activity wherein a faculty member, by discussion and assignments,