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Accent on Learning, 1963

University of South Florida

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the university
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1963-64

ACCENT ON LEARNING

GENERAL CATALOG

OF THE

UNIVERSITY OF SOUTH FLORIDA

1963-64

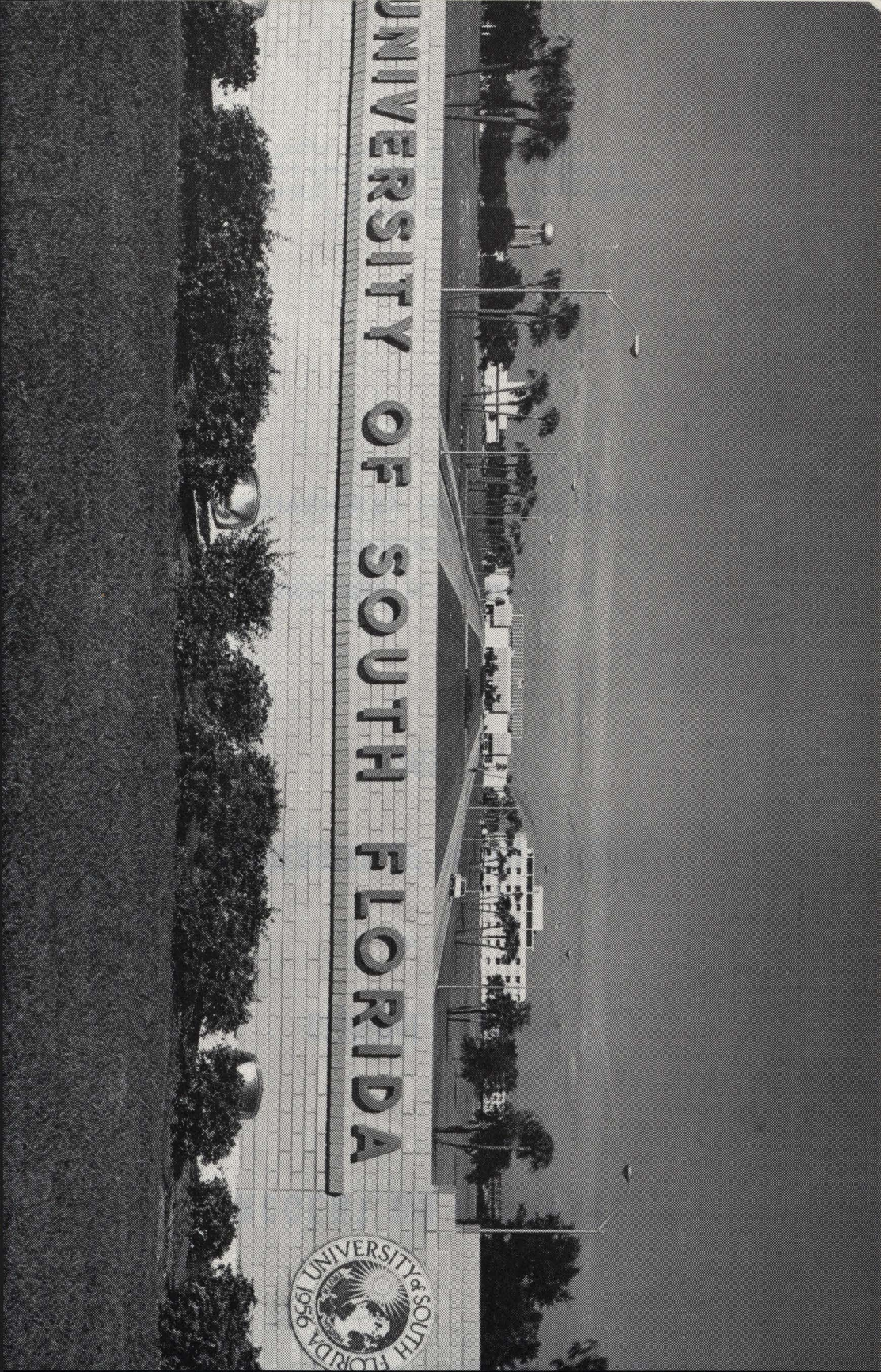
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UNIVERSITY OF SOUTH FLORIDA



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April 5, Thursday
 April 11, Saturday
 April 12, Sunday
 April 13, Monday
 April 14, Tuesday

Class and exam
 Final examinations begin
 Transfer II class
 All grades in Registrar's Office

THE TRIMESTER SYSTEM

Florida's state university system, of which the University of South Florida is a part, recently adopted an important revision in its calendar of operation. Beginning in the fall of 1962, a trimester system of year-round operation replaced the traditional system of two semesters and a summer term. In essence, three trimester terms of 15 weeks each were established to replace two 16-week semesters and one eight-week summer term. Class periods have been lengthened from 50 minutes to 55 minutes each, and the amount of credit earned in a trimester is equal in all respects to that formerly earned in a semester.

The purpose of the trimester plan is to equalize enrollment throughout the year, thus providing more uniform and complete use of available facilities. It also permits students to accelerate their college work. The time formerly required to complete a typical four-year (eight-semester) college program can now be reduced by one-third for students who attend on a year-round basis.

The first, or fall, trimester (I) begins shortly after Labor Day each year and ends just before Christmas. The second, or winter, trimester (II) starts early in January and ends after the middle of April. The third, or summer, trimester (III) starts near the first of May and ends before the middle of August. The exact dates, of course, will vary from year to year. This calendar provides vacation time for four weeks in August and early September, two weeks at Christmas and one week in April.

Students who do not wish or cannot afford to attend the year around may find it more satisfactory to stay out during the fall or winter trimester. Some students will still no doubt find it necessary or desirable to drop out during the summer, but will not wish to discontinue their studies as early as April. To meet the differing needs of students during the summer months, Trimester III includes two types of programs: courses which run through the entire trimester, and courses which operate at double speed through the second half of the trimester (III B).

Thus, a student who is unable to attend for the entire trimester may take courses during the second half. Trimester III B has a comprehensive program, and is of special interest to elementary and secondary school teachers who are not free to pursue their studies until their teaching duties end in June. Entering freshmen and transfer students may also find this a good time to begin their studies.

Since all of the University's buildings, including residence halls, are air conditioned, warm weather is not a deterrent to summer attendance.

ACADEMIC CALENDAR—1963-64

TRIMESTER I

August 9, Friday	Last day for degree-seeking students to apply for Trimester I.
September 3, 4, 5, 6 Tuesday-Friday	Registration of cleared students by appointment.
September 9, Monday	Classes begin; \$5 late fee for persons completing registration on or after this date.
September 11, Wednesday	Last day to register or to change classes.
September 27, Friday	Last day to drop a class without penalty. After this date progress in dropped class will determine grade recorded. Last day to remove "X" grade (or to apply to remove CB 100 or 200 "X" grade) of preceding term.
October 7, Monday	Last day to apply in Registrar's Office for degree to be earned at end of Trimester I.
November 28, 29 Thursday and Friday	Thanksgiving Holiday.
December 13, Friday	Classes end.
December 14, Saturday	Final examinations begin.
December 19, Thursday	Trimester I ends.
December 20, Friday	All grades due in Registrar's Office.

TRIMESTER II

December 17, Tuesday	Last day for degree-seeking students to apply for Trimester II.
January 2, 3, 4 Thursday-Saturday	Registration of cleared students by appointment.
January 6, Monday	Classes begin; \$5 late fee for persons completing registration on or after this date.
January 8, Wednesday	Last day to register or to change classes.
January 24, Friday	Last day to drop a class without penalty. After this date progress in dropped class will determine grade recorded. Last day to remove "X" grade (or to apply to remove CB 100 or 200 "X" grade) of preceding term.
February 3, Monday	Last day to apply in Registrar's Office for degree to be earned at end of Trimester II.
February 10, Monday	Gasparilla Day Holiday.
April 9, Thursday	Classes end.
April 11, Saturday	Final examinations begin.
April 16, Thursday	Trimester II ends.
April 17, Friday	All grades due in Registrar's Office.

TRIMESTER III, III B

April 10, Friday	Last day for degree-seeking students to apply for Trimester III.
April 22, 23, 24 Wednesday-Friday	Registration of cleared students by appointment.
April 27, Monday	Classes begin; \$5 late fee for persons completing registration on or after this date.
April 29, Wednesday	Last day to register or to change classes for Trimester III.
May 15, Friday	Last day to drop a Trimester III class without penalty. After this date progress in dropped class will determine grade recorded. Last day to remove "X" grade (or to apply to remove CB 100 or 200 "X" grade) of preceding term.
May 25, Monday	Last day to apply in Registrar's office for degree to be earned at end of Trimester III.
May 29, Friday	Memorial Day Holiday.
May 30, Thursday	Last day for degree-seeking students to apply for Trimester III B.
June 11, 12 Thursday and Friday	Registration of cleared students by appointment for Trimester III B.
June 15, Monday	Trimester III B classes begin; \$5 late registration fee for persons completing registration on or after this date.
June 17, Wednesday	Last day to register or to change classes.
June 24, Wednesday	Last day to drop Trimester III B class without penalty. After this date progress in dropped class will determine grade recorded.
July 2, Thursday	Last day to remove "X" grade (or to apply to remove CB 100 or 200 "X" grade) of preceding term.
July 3, Friday	Independence Day Holiday.
July 30, Thursday	Trimester III classes end.
August 1, Saturday	Trimester III examinations begin.
August 1, Saturday	Trimester III B ends.
August 5, Wednesday	Trimester III ends.
August 6, Thursday	All final grades due in Registrar's Office.

TRIMESTER I, 1964

September 8, Tuesday, Classes begin.

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All members of the University of South Florida's academic staff, including teaching, research, administrative and professional personnel, are listed below in alphabetical order. The listing includes name, highest degree, institution conferring the degree, field and current rank, as of January, 1963.

- Adams, John B., Ph.D. (Chicago), Assistant Professor, Anthropology.
 Adams, Mildred D., Ph.D. (Columbia), Instructor, English (part-time).
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 Barker, Mary Lou, M.S. (Columbia), Head Catalog Librarian, Library.
 Battenfeld, David H., Ph.D. (Stanford), Associate Professor, Humanities.
 Battle, Jean A., Ed.D. (Florida), Dean, College of Education; Coordinator, Summer Sessions; Coordinator, Graduate Residence Center.
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 Beecher, Alvah A., M.M. (American Conservatory of Music), L.H.D. (Hon.), Professor, Music; Director, Division of Fine Arts.
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14 ACADEMIC STAFF

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16 ACADEMIC STAFF

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- Sand, Louise, Ph.D. (North Carolina), Associate Professor, Foreign Languages.
- Sarett, Alma J., Ph.D. (Northwestern), Associate Professor, Speech.
- Schwartz, Julia L., M.S.L.S. (Western Reserve), Assistant Reference Librarian, Library.
- Scrivner, August W., D.Ed. (Indiana), Associate Professor, Education.
- Scroggins, Albert T. Jr., Ph.D. (Missouri), Associate Professor, Journalism.
- Sellers, E. Guy Jr., M.Ed. (Florida), Instructor, Education.
- Shannon, Robert L., Ed.D. (Florida State), Associate Professor, Education.
- Slater, Merle V., M.A. (Florida), Assistant Registrar and Director of Records.
- Smith, Elton E., Ph.D. (Syracuse), Assistant Professor, English.
- Smith, Roy A., M.A. (Vanderbilt), Lecturer, Mathematics.
- Smith, Samuel B., Ph.D. (Vanderbilt), Assistant Professor, History.
- Sokolosky, Anatole, LL.D. (Univ. Vitautas the Great, Lithuania), Assistant Professor, Foreign Languages.
- Solomons, Thomas W. G., Ph.D. (Duke), Assistant Professor, Chemistry.
- Spain, Frank H. Jr., Ed.D. (Florida), Registrar.
- Sperry, Gale L., Ph.D. (Minnesota), Associate Professor, Music.
- Stanton, Edgar E. Jr., Ph.D. (Florida State), Associate Professor, Humanities.
- Stelzner, Hermann G., Ph.D. (Illinois), Assistant Professor, Speech.
- Stewart, Clifford T., Ph.D. (Denver), Assistant Professor, Psychology; Director, Evaluation Services.
- Stewart, Herbert H., Ed.D. (Columbia), Assistant Professor, Education.

- Still, Ruth L., M.A. (Columbia), Instructor, Music (part-time).
- Stovall, Thomas F., Ph.D. (Peabody), Associate Professor, Education.
- Sweigert, Ray L., Ph.D. (Iowa), Lecturer, Physics.
- Trent, Joseph F., B.S. (U.S. Military Academy), Teaching Associate, English.
- Urbanek, Raymond A., Ed.D. (Kansas), Assistant Professor, Education.
- Valentine, Virginia W., M.A. (Southern Methodist), Teaching Associate, English.
- Valette, Rebecca M., M.A. (Colorado), Instructor, Foreign Languages.
- Wagner, Gerard A., M.A. (Southern Mississippi), Instructor, Speech.
- Wakefield, Donald S., Ed.D. (Tennessee), Assistant Professor, Marketing and Office Administration.
- Ward, Louise, M.S.L.S. (Emory), Serials Librarian, Library.
- Warner, Robert A., Ph.D. (Yale), Chairman and Professor, American Idea.
- Watkins, Armin J., Mus.D. (Indiana), Associate Professor, Music.
- *Webber, Irving L., Ph.D. (Louisiana State), Associate Professor, Sociology.
- Wehr, Richard W., M.Ed. (Pittsburgh), Assistant Professor, Physical Education.
- Whaley, Russell G., B.A. (Yale), Assistant Professor, Theatre Arts.
- Wharton, James E., LL.B. (Stetson), Lecturer, Business Administration (part-time).
- Whitaker, Robert D., Ph.D. (Florida), Assistant Professor, Chemistry.
- Wilkes, William L. Jr., Ph.D. (Southern California), Assistant Professor, Humanities.
- Williams, Charles F., M.S. (Miami, Fla.), Assistant Research Professor, Human Behavior.
- Williams, Walter E., M.A. (Miami, O.), Instructor, Mathematics.
- Winthrop, Henry, Ph.D. (George Washington Univ.), Associate Professor, Social Science.
- Woolfenden, Glen E., Ph.D. (Florida), Assistant Professor, Zoology.
- Wright, Peter C., M.A. (Columbia), Assistant Professor, American Idea.
- Wunderlich, Herbert J., Ed.D. (Stanford), Dean, Student Affairs.
- Yates, Robert C., Ph.D. (Johns Hopkins), Professor, Mathematics.
- Young, JoAnne E., M.Ed. (North Carolina), Assistant Professor, Physical Education.
- *Zaitz, Anthony W., Ph.D. (Wisconsin), Associate Professor, Speech.
- Zetler, Robert L., Ph.D. (Pittsburgh), Professor, English; Director, Division of Language and Literature.

* Leave of absence 1962-63



I. GENERAL INFORMATION

HISTORY

The University of South Florida was founded December 18, 1956, by the State Board of Education, following more than two years of preparatory study directed by the State Legislature, the Board of Education and the State Board of Control. It is the newest state university in the nation, the first to be totally planned and constructed in this century, and it represents the first step in a broad and comprehensive expansion of the State University System of Florida resulting from a continuing study of the state's current and projected needs. Since its creation, a second new university has been planned, the Florida Institute for Continuing University Studies has been started and a third new four-year institution has been projected. By 1970, Florida will have six universities, the continuing studies institute and more than 30 two-year community colleges in operation within its system of public higher education.

On September 26, 1960, the University of South Florida opened with some 2,000 freshmen in its charter class, and each year since then its enrollment has increased by about 1,000 as new classes were added. Its full four-year program is now in operation, and the first formal commencement will be held during the 1963-64 school year.

THE CAMPUS

On a 1700-acre campus eight air miles northeast of downtown Tampa, the University is ideally located for steady growth and development in the heart of an expanding metropolitan area having close to a million people in a 30-mile radius. The campus is midway between U.S. Highways 41 and 301 on State Highway 582, and Interstate 75, now under construction, will pass two miles to the west.

The physical plant of the University, now including 13 buildings, is currently valued at more than \$16 million. The buildings are of uniform architectural design and are completely air-conditioned. More than \$10 million in new buildings are expected to be completed or under construction by 1965. Major buildings now in use are:

The Administration Building, housing administrative and business offices and a number of special service units of the institution;

The Library, a five-story structure designed for 250,000 volumes in open stacks;

The University Center, with student and faculty offices, meeting rooms, recreation areas and classrooms, as well as a cafeteria, a bookstore and a post office;

The Theatre, seating 550 persons for cultural events and serving also as a lecture and teaching auditorium;

The Chemistry Building, with classrooms and laboratories for the physical sciences and offices for faculty;

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

The Humanities Building, with separate wings for humanities, art and music; and

Fincher Ave.

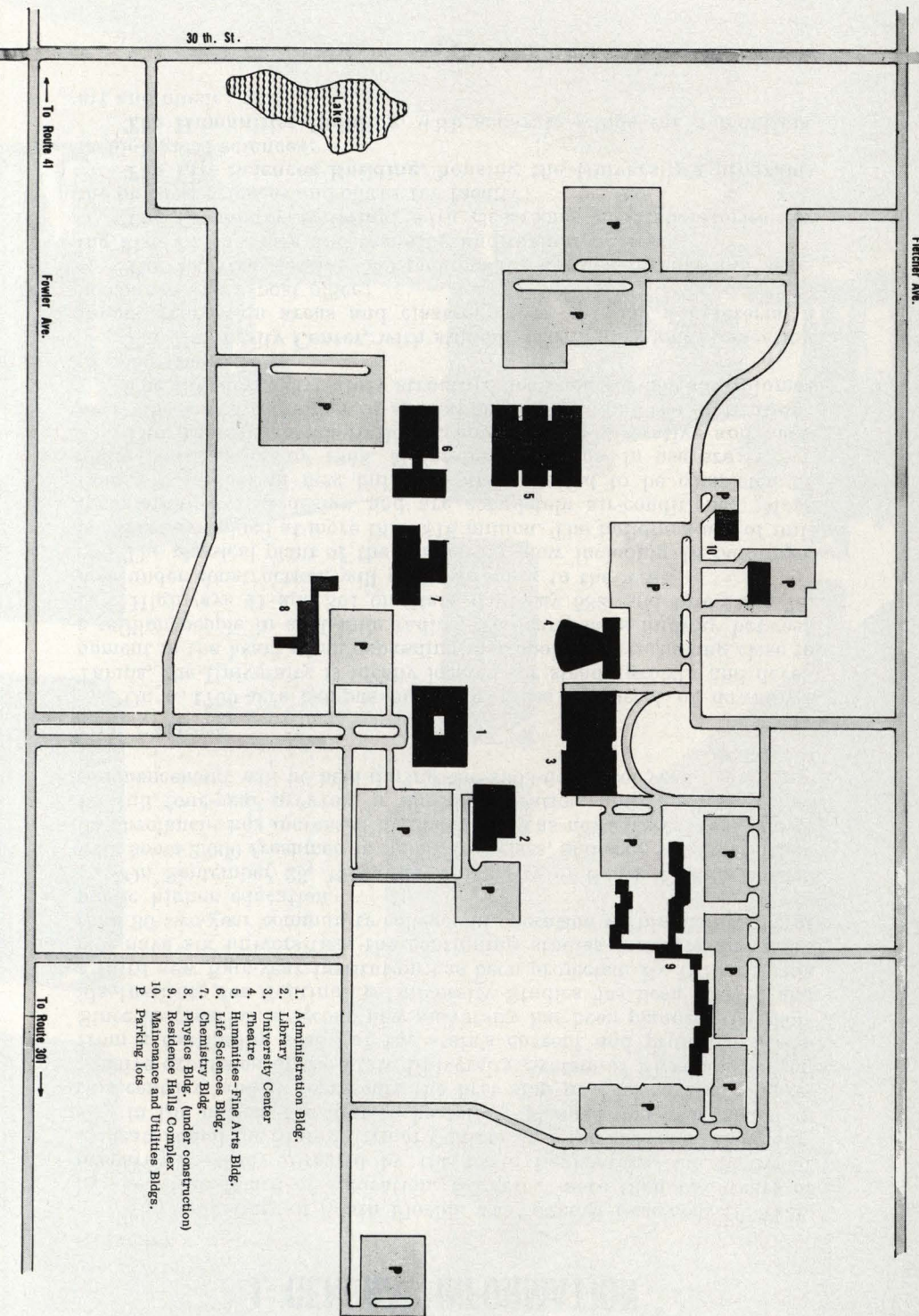
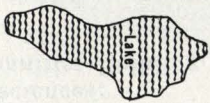
30 th. St.

← To Route 41

Fowler Ave.

To Route 301 →

1. Administration Bldg.
 2. Library
 3. University Center
 4. Theatre
 5. Humanities-Fine Arts Bldg.
 6. Life Sciences Bldg.
 7. Chemistry Bldg.
 8. Physics Bldg. (under construction)
 9. Residence Halls Complex
 10. Maintenance and Utilities Bldgs.
- P Parking lots



Three residence halls, housing more than 1300 students and providing central dining, recreational and service facilities.

The Physics Building, to house physics and astronomy, is under construction.

INTERNAL ORGANIZATION

The University of South Florida is organized internally in four colleges, with supporting services designed for this basic pattern. The four colleges are Basic Studies, in which all freshmen and sophomores enroll and from which a minimum of 36 credit hours must be earned during the first two years; Business Administration, which offers majors in such fields as economics, accounting, marketing and administration; Education, which provides teacher training in all major teaching fields; and Liberal Arts, which has programs within the major areas of fine arts, natural sciences, social sciences and languages-literature.

One degree—bachelor of arts—is offered uniformly by all the University's colleges, with major programs available in some 25 different areas.

The University's teaching faculty of more than 200 persons represents all the major areas of higher learning, and about 65 per cent of them hold doctoral degrees. The faculty has been assembled from more than 100 institutions throughout the United States and abroad, and 50 or more new members will be added each year as the University expands. An increasing volume of research and publication is developing rapidly as the teaching program progresses.

For administrative purposes, the University is organized into the three broad areas of academic affairs, student affairs and business affairs. The administrative officers who head these three units serve with the President as the Executive Committee, the principal policy-making and advisory body of the University. The President is responsible to the State Board of Control for internal policy and procedure of the University. In addition to the Executive Committee, advice and assistance to the President in the determination of policy is given by the University Senate, which has elected representation from all areas of the University community, including the student body.

THE FOUNDATION

Since the University has no alumni, friends of the institution have incorporated the University of South Florida Foundation, a non-profit organization which gives support in a variety of ways. Membership in the Foundation is open to all persons interested in the welfare and development of the University.

PURPOSES AND GOALS

A university is defined as an institution of higher learning consisting of several schools or colleges and offering programs in the liberal arts as well as in a number of professional areas. It is, however, 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.

It is not, however, a trade school where the detailed techniques of a trade can be learned by practice. It deals with professional areas more in theory than in practice, providing the broad background and understanding necessary to the development of specific skills. In this way it develops the intellectual judgments necessary to deal with the constantly changing problems of a profession.

A university should not be regarded simply as a place to prepare for a profession, important as this may be. One of its most important functions is to provide all its students with a better understanding of life in a rapidly changing world. Man is surrounded by a natural environment and confronted by rapidly increasing knowledge of that environment. These are matters of human affairs which he needs to know about as an educated citizen and as a professional person. Hence, a university has an important obligation to provide in its educational program for all students those common elements which make for more responsible and responsive living.

A university is also a servant of the society which supports it, and at the same time it is one of the leaders of that society. It is the medium through which the greatest wisdom of the past and the living spirit of the present are passed on to new generations of young people to be used by them as leaders in the further advances of society toward goals of better and finer living.

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

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

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

The faculty has been carefully chosen for its training, competence and ability to teach. In an unusual sense it is a team. The faculty has already shown its outstanding ability to carry on creative work and

significant research and to provide opportunities for able students to learn the meaning of, and assist in, such work as part of the process of education.

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

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

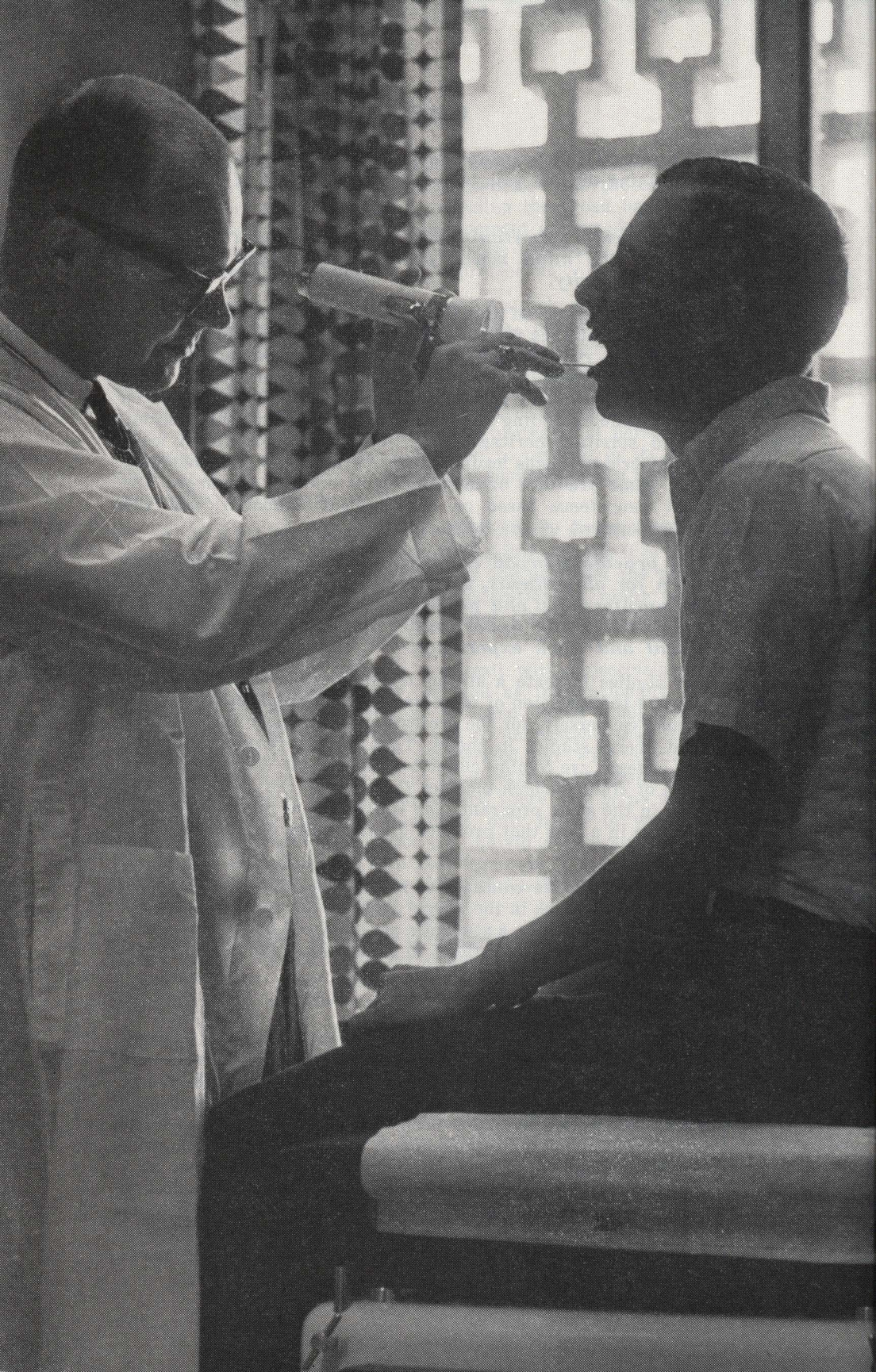
IV. To provide a broad cultural and basic educational pattern for all students, together with programs of liberal, pre-professional and professional studies, and to supplement these with opportunities for independent development and work experience.

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

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

A LOOK AT THE FUTURE

The University of South Florida's location in a large and expanding 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. It is estimated that more than 10,000 students will be enrolled by 1970. Proposals have already been made to the Board of Control for establishment of new programs in engineering, medicine and other fields. Construction will continue at a rapid pace each year for several years to come. New faculty are joining the University staff at a steady rate. In every respect, the University of South Florida is a vital part of the state's inevitable growth, and it is destined to become a large, multi-purpose university.



II. STUDENT WELFARE

In concerning itself with the total growth and development of its students, the University of South Florida gives attention not only to the intellectual aspects of this growth but to the physical, social, emotional and spiritual aspects as well. To help its students acquire a maturing sense of values, a sound intellectual competence and an understanding of the responsibilities which accompany these, the University vests in numerous of its offices and agencies concern for the welfare of the students.

STUDENT PERSONNEL

The Office of Student Personnel is concerned with the implementation of the personnel service program for students. Orientation of new students, residence hall programs, loans, student activities, student organizations, class attendance, disciplinary action and personal counseling are major functions of Student Personnel. The University provides the leadership and professional services through Student Personnel for maintaining the educational philosophy of this program.

DEVELOPMENTAL CENTER

The Developmental Center provides services for students desiring professional assistance in the areas of reading, vocational guidance, personal counseling, tutoring, speech and hearing. These services are available to assist students in evaluating and remedying problems which interfere with efficient learning and satisfying participation in campus life.

The Reading Service provides diagnosis and evaluation as well as developmental exercises and techniques for improvement. In addition, a one-trimester non-credit course in developmental reading is offered. Through this program students have the opportunity to reach maximum level reading effectiveness with improved comprehension and retention.

The Speech and Hearing Service offers diagnostic and therapeutic sessions for students whose speech or hearing interferes with effective communication. The summer counseling conferences include screening in both speech and hearing.

Counseling Services are available for students requesting help in career planning and in dealing with personal problems. Through testing and interview the counselors assist any student to evaluate his personal aptitudes for his educational and career goals. Any student may ask for help in the center when he feels that increased understanding of himself and of his relations with others would lead to more confident and satisfactory living and learning.

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

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Application for any of these services of the Developmental Center may be made by any student at any time and as often as desired. Regular registration procedures will be followed for specific courses such as developmental reading.

STUDENT HEALTH SERVICE

Health services are provided for students through a Health Center on campus and through a voluntary health insurance plan.

The Health Center provides the services of a full-time physician and 24-hour nursing care throughout the school year. Commonly used prescription medications are dispensed by the Health Center to students paying the health fee. Infirmary care is made available to full-time students with minor illnesses which preclude class attendance and emergency care is given all students. Off-campus hospital and medical care will be the financial responsibility of the individual student or his family except the University will pay for expenses up to \$100 per student per year when approved by the University physician.

A low-cost major medical and hospital insurance plan is available to all students to supplement the above program. The plan provides for insured coverage of more serious medical problems which cannot be cared for on campus. Since the Health Center and the health insurance plan provide complementary services, all students are encouraged to give this insurance coverage careful consideration.

Before registration each student must present a signed doctor's certificate concerning his medical history.

HOUSING

Living conditions suitable for study often affect the quality of academic work. The provision of adequate living conditions for students is accordingly a responsibility to be shared by students, their parents and the University.

Students whose family residence is outside the commuting area of the University, who are not planning to reside with their parents or guardians, are expected to live in University residence halls up to the limit of accommodations. Excepted from this residence requirement are those married and living with their spouses, those over 25 years of age and those who are divorced.

Should space not be available on campus, students are to live in other housing acceptable to both the University and their parents. Students not accommodated on the campus or living at home should arrange through the Housing Department to rent rooms in private homes in the vicinity of the University. All students, married or single, living off campus are expected to live with relatives or in housing listed by the Housing Department. Single students under 25 years of age may not rent facilities off campus without the written approval of the Housing Department after a personal interview with a member of the Student Personnel staff.

Accommodations listed by the University will meet normal colle-

giate standards. Rental arrangements may best be made after personal inspection of facilities and conference with the householder before school opens. Fall trimester arrangements may be made during the summer.

Students previously living in residence on the campus are given room assignment preference if they return the following term.

University residence halls are now available for both men and women students. Air-conditioned rooms for two students each are furnished with beds, dressers, mirrors, desks, desk lamps, drapes and chairs. Each student assigned a room should bring his own pillow and may obtain pictures, rugs, bed spreads and other items after arrival at the University. Members of the Student Affairs staff live in the residence hall and are concerned particularly with the students in residence there.

Students may apply for housing on campus only after they have applied for admission to the University.

FOOD SERVICE

All students in residence halls on the campus receive three meals a day in the food center. The cost is included in the total charge for room and board. A food service boarding plan, with three meals a day, is available to those living off campus. A snack bar, open during the day and evening, provides sandwiches and fountain service. 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 BOOKSTORE

Students may purchase books, school supplies, sundries, stationery and art, engineering and other equipment in the University Bookstore. Such items as pillows, bedspreads, blankets, bed lamps and other residence hall needs may be purchased in the University Bookstore Annex in the residence halls area. Students who attend summer counseling conferences may purchase their textbooks at that time.

FINANCIAL AIDS

The student financial aids program at the University of South Florida is intended to assist qualified students to obtain a university education when they otherwise might lack financial resources.

Scholarships are available, suited to student financial need and academic promise. Work, book and tuition, Cuban and Foundation financial assistance are available through the Financial Aids Office. The registration fee work scholarships involve about four hours work on campus per week.

Students with a minimum of 24 hours of academic credit and a grade average of 2.0 or better may apply for a Work-Study team. Further information on the Work-Study Cooperative Program is given elsewhere in this catalog.

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National Defense Education Act student loans permit entering freshmen, transfer students and regular students to borrow up to \$5000, repayments beginning one year after the borrower ceases to be a student with a rate of 3 per cent interest, payable within 10 years.

Scholarship and loan applications for the fall trimester should be filed by February 1. Applications should be made to Executive Secretary, Financial Aids Committee, 1053 Administration Building, University of South Florida, Tampa.

The following scholarships, with their minimum value given in parenthesis, are currently available to qualified students:

Ernest Atkins Scholarship (\$300), Brandon Women's Service League Scholarship (\$200), John Stewart Bryan Memorial Award Scholarship (\$500), Pauline Bush Scholarship (\$300), Chi Omega Scholarship (\$226), Elizabeth Cone Book Scholarship (varies), Ione Lister Simmons Creative Writing Scholarship (varies) Eleanor Gilbert Scholarship (\$200), General Telephone Scholarships (two, \$226 each), Graham Jones Paper Company Scholarships (two, \$300 each), Knight and Wall Scholarship (\$301), Love Memorial Scholarship (varies), Lovett Scholarship (\$120), Maas Brothers Scholarship (\$301), State Teaching Scholarships (number varies, \$200), USF Work Scholarships (number varies, \$113), Wellswood Civic Club Scholarship (\$113), Winn-Dixie Stores Foundation Scholarship (\$375).

Details on specifications and qualifications for these scholarships are available in the Financial Aids Office.

PLACEMENT SERVICES

The University provides graduate placement services for seniors and alumni and undergraduate placement services for full-time students. These services are coordinated through the Division of Personnel Services.

Graduate placement services assist the University student or graduate in securing positions in industry, commerce or the student's chosen profession; provide prospective employers with information regarding students seeking employment; and arrange interviews with prospective employers. Prior to graduation each student is encouraged to complete placement credentials in the office of Personnel Services. A career carnival will be conducted on campus each year to enable students to become familiar with the operations and employment opportunities of firms throughout the nation.

The University also has a committee on graduate study to help bring to the attention of interested students opportunities available in the form of scholarships, fellowships and assistantships in various graduate schools. The University has other committees on pre-professional preparation for such fields as law, medicine, dentistry, engineering and the ministry.

Undergraduate placement services for part-time positions are available to full-time students at the University. On-campus positions are limited and usually require special skills. Students seeking on-

campus employment should make application to the Division of Personnel Services and be approved for work by the Office of Student Personnel. A 2.0 average is required. Wages vary with the type of work to be performed. The Division of Personnel Services maintains listings and detailed information regarding available part-time employment both on and off the campus.

EXTRA-CLASS LIFE

Experiences which develop in students a firm and enlightened belief in democracy, an understanding of its methods and a sense of personal responsibility are essential for a free society. The social experiences of working in extra-curricular activities provide valuable personal understanding, emotional maturity, recreation and social skills. Out-of-class activities of the University are related to these ends. Student activities, clubs and organizations are incorporated in the University's total educational program through the staff of Student Affairs and faculty advisement. The University Center and residence halls are particularly concerned with this co-curricular area of student life.

CULTURAL EVENTS

Each trimester a committee of the University arranges a full schedule of concerts, exhibits, plays, lectures, films and forums for the cultural enrichment and entertainment of the University community. These programs consist of performances by individuals and groups within the University, as well as presentations by well-known professionals.

Many of these events are presented both during the day and in the evening, and most are free of charge. Programs on the events calendar are also open to the general public.

Within the Division of Fine Arts there are performing groups in music and theatre arts which draw heavily on student talent; student artists also have opportunities to exhibit their works.

INTRAMURAL AND RECREATIONAL SPORTS

Outside its academic program, 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 all-University events days in addition to basic instructional programs in physical education.

The intramural sports program emphasizes activities that are especially conducive to the Florida climate. Competition is scheduled in such individual sports as swimming, tennis, track, golf, cross country, table tennis, bowling and archery, as well as the team sports of touch football, basketball, volleyball and softball. Competition is scheduled through fraternal societies, residence halls and independent divisions. Team and individual awards are presented. Sports clubs affli-

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ation provides an excellent opportunity to pursue individual interests with like-minded students.

At the University of South Florida it is intended that these activities will be so conceived and executed that they are laboratories of learning and a means of releasing physical and emotional energies. They are planned to give meaning, balance and reinforcement to the curriculum and to be positive factors in the mental, emotional and physical health of students.

THE UNIVERSITY CENTER

Through its committees and staff the University Center provides a social, cultural and recreational program to make leisure activity meaningful. The program is designed to supplement educational experiences by providing opportunities for self-directed activity.

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

The University Center Program Council has as its objective to provide a balanced program of activities reflecting the special social and recreational needs of all students' out-of-class interests. All activities are planned, arranged and directed by student committees. A student may volunteer to serve on such committees as dance, recreation, activities, music, hospitality, talks and topics, public relations, art and exhibits, movies, house functions and special projects.

The University Center also provides many of the personal services and facilities essential to university life outside the classrooms. It has conference and activity areas, lounges, a cafeteria, dining rooms, a snack bar, student organization offices, craft and photography shops, recreation rooms, a ballroom, book lockers, lounges for music, radio and television listening, central duplicating service, a mail center, a bookstore, Student Health Service, a browsing library and various other services, some of these coordinated by the Director of Auxiliaries and some through the University Center Office and Information Desk. Many of the center's facilities and services provide for personal and social needs.

STUDENT ASSOCIATION

The Student Association includes all regularly enrolled students of the University. Each student carrying 12 or more credit hours per trimester is a voting member of the University of South Florida Student Association. Through its councils and elected officers the Association directs, under the supervision of the Dean of Student Affairs, many student activities. Elections for membership on councils, executive positions within councils and the Student Association are held annually.

Each major student activity is represented in the Association by a council which directs and coordinates its activities. Currently there are the Fine Arts Council, Intramural Council, Religious Activities Council, Fraternal Societies Council, Residence Hall Council, Communications Council and the University Center Council. Councils will be formed to represent newly developed activities.

The Student Association is the way in which students participate in the government of University life. In addition, the Student Association elects five student representatives to the University Senate.

CLUBS AND OTHER ORGANIZATIONS

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

RELIGIOUS CLUBS

The University has encouraged student religious organizations to develop centers and associations. Five denominations are building centers on campus. The Episcopalians dedicated their center in the fall of 1962. The Baptists, Christians, Methodists and Presbyterians will follow shortly. The United Campus Christian Fellowship has a center near the campus, and the Catholics also plan to build nearby.

Student religious clubs active on campus include Baptist Student Union, Catholic Student Organization, Canterbury, Christian Life Fellowship, Christian Science Organization, Jewish Student Union, Liberal Religious Forum, Lutheran Club, United Campus Christian Fellowship, Wesley Foundation and Westminster Fellowship.

ART CLUBS

The fine arts center and program of the University have attracted students into the Botega Art Club, Lyre and Aulos and other organizations for theatre, orchestra and band.

COMMUNICATIONS CLUBS AND PUBLICATIONS

The Campus Edition and USF Press Club provide professional experiences for those students interested in journalism. The University has developed a program for campus communications through publications. These publications are all-University in approach and coverage. They are staffed by students under the supervision of a faculty adviser.

The University has an agreement with The Tampa Times, an afternoon daily newspaper, to publish a University of South Florida Campus Edition each Monday classes are in session. Copy for the entire front page plus additional inside copy is prepared during a laboratory period of an appropriate class. Students write, edit and prepare page layouts which go to the Times. The special edition has proven an effective means of newspaper communication on campus.

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Students interested in a yearbook are preparing the University's first. A literary magazine is also planned.

Students interested in campus publications are invited to join the staff of any campus publication. Work on publications offers experience in journalism and is an important student activity on the campus.

INTRAMURALS

Students interested in sports recreation find outlets in archery, judo, nautico, racquet, sailing, sports car and rifle clubs.

SPECIAL INTERESTS

Alpha Epsilon Delta (pre-med), Broadcasting, Business Leaders, Florida Education Association, French Club, Projectionist Club, Psychology Club, Radio Club, Civil War Round Table, Russian Club, Senior Accounting Organization, Speech Association, Veterans Club, Work-Study Co-op Club, Young Americans for Freedom, Young Democrats and Young Republicans all have organized programs for growing student interests.

SERVICE CLUBS

Circle K and Civitan Clubs provide associations for leadership and University service experiences.

FRATERNAL SOCIETIES

Twelve clubs for men and women interested in social or service activities have been formed. These selective membership clubs are open only to students who have completed at least one full trimester at the University and who meet scholarship and other standards of membership. Their programs are coordinated through the Fraternal Societies Council.

RESIDENCE HALLS

Student self-government, self-directed social programs and committee activities provide opportunities for many students to mature socially. Three residence halls housing 1300 students in a complex which includes a food-recreation center provide extensive student organizations and programs for government, recreation and cultural growth.

INTERCOLLEGIATE ATHLETICS

The University of South Florida anticipates entering some intercollegiate sports when it has the necessary finances and facilities to enable its teams to practice and train without interrupting the intramural programs designed for all students, and when it has graduated at least one class and has been accredited. Sports initiated at that time may include those such as tennis, soccer, baseball, golf, crew and swimming.

STUDENT CONDUCT, DRESS AND DISCIPLINE

Honor and conduct codes governing the expectations for students'

social standards have been developed by students, faculty and Student Affairs staff jointly. Social standards boards review violations of these codes. Self-discipline and awareness of social obligation are the objectives of the program.

Students attending the University of South Florida are considered to be responsible young adults working with their faculty colleagues in search of knowledge. It is hoped that rigid regulations of personal conduct will not be necessary, for freedom as an objective of education is difficult without the existence of freedom.

Such freedom must be balanced by individual responsibility and respect for the rights, responsibilities and freedom of others. Students will, therefore, be considered responsible for their own decisions and actions both on or off campus. Failure to assume this responsibility or actions which jeopardize the rights and freedoms of others or the integrity of the University will result in disciplinary review.

Just as the University expects high standards of academic performance, so does it expect high standards of individual conduct. Similarly, it expects dress to be appropriate to the activities in which the individuals are engaged.

Noticeable or gross departures from expected standards of conduct or dress on the part of students will first be considered errors in judgment. Advisers or other officers of the institution will discuss such lapses with the student concerned. Persistent violations of expected standards or established regulations will involve appropriate disciplinary action. The University may deny admission or continued attendance to those whose decisions and actions are contrary to the purposes and procedures of the University.



III. ACADEMIC POLICIES, PROCEDURES AND SERVICES

When students apply for admission to a university, they are asked to have sent a transcript of their previous academic work. When students leave an institution, they may request a transcript of work done there. The transcript from high schools shows courses taken expressed in what are called Carnegie Units. A unit represents one year's work in a course. College or university transcripts show courses taken and credits earned. High school transcripts show rank in high school graduating class which indicates how the student's grades compare with those who are graduated with him. College or university transcripts show grade-point average or ratio, which is a numerical index showing the proportion of A's, B's, C's, D's and F's the student earned. Such records may also show the results of tests students took prior to being admitted to a college or university or other tests required of all students. Such scores are most frequently expressed as percentiles indicating the percentage of all other students taking the test who scored below the student in question.

The University of South Florida requires definite ability and competency 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. Students who lack them are almost sure to encounter serious difficulty. Until such students have corrected some of their academic deficiencies by private study, review work in high school, or perhaps study in a junior college, they are urged not to apply. Whether or not students have a reasonable possibility of being admitted to and succeeding in the University will be appraised by the Registrar. He will admit students who meet the formal requirement of the University for admission. He will suggest other possibilities to those who do not. He will refer borderline decisions to the University Committee on Academic Standards. This committee's decision will be final.

ADMISSION TO THE UNIVERSITY

FRESHMEN

It is recommended that all freshmen who wish to be admitted to the University of South Florida earn at least 14 high school units in the areas of English, mathematics, foreign languages, social studies and natural sciences.

Freshmen enter the University from four principal sources, and special qualifications are established for each. The four are:

1. Graduates of Florida high schools, who must have a favorable character recommendation from officials of their high school, must have an overall average of "C" or better in all academic subjects and must score in the upper 40 per cent (300 or above) on the Florida State-Wide Twelfth Grade Tests.

2. Graduates of high schools outside Florida, who must have a favorable character recommendation from officials of their high school, must have grades placing them in the upper 40 per cent of their graduating class and must have acceptable test scores (examples: 900 or higher on the Scholastic Aptitude Test—450 or higher on the verbal portion).
3. High school graduates by Armed Forces Tests of General Education Development (G.E.D.), who must have a favorable recommendation from their employer, must have an acceptable high school record for the portion attended and must have a minimum individual score (percentile) of 50 and a minimum average of 60 on the G.E.D. test.
4. Early applicants, who wish to enroll prior to high school graduation, must have outstanding high school records (minimum average of 3.5, or B+), must show high performance on tests such as the College Qualification Test and must score a minimum of 425 on the Florida State-Wide Twelfth Grade Tests. Early applicants are interviewed by a number of University officials and are comprehensively tested before their applications are approved.

TRANSFER STUDENTS

Degree-seeking students wishing to transfer to the University must have a minimum average of "C" for all college work previously attempted and must be eligible to return to the last institution in which they were enrolled. Those with less than 60 hours of college credit must meet the University's freshman entrance requirements. Non-degree seeking transfer students who wish to change to a degree-seeking status must first meet the degree-seeking admission requirements or earn a minimum of 15 trimester hours with a minimum average of 2.5 (C+).

After a transfer student has applied to the University and all official records are received directly from each institution involved, his records are evaluated to determine how many of his credits are transferable. Only work on which the student has earned a grade of "C" or better may be transferred, except that all work undertaken at other state universities in Florida is treated in the same manner as work undertaken at the University of South Florida.

The final 60 hours of work taken for the bachelor's degree must be earned in a senior institution, and a maximum of 30 hours of extension and correspondence courses and Armed Forces credit can be applied toward a degree.

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

A transient student interested in enrolling for a summer session or for one term only before returning to his parent institution should write for transient application papers. No evaluation of transferred credit is prepared for transient students.

A transfer student from a state-operated junior college or university may satisfy the basic studies requirements of the University of South Florida by completing (before transfer) the general education program prescribed by that institution. Graduation for those attending a junior college is recommended. Students' general education programs in private colleges and out-of-state schools, and students with incomplete general education programs from state institutions, will be evaluated on an individual basis.

Graduates of accredited junior colleges are not required to take additional work in physical education.

Students already graduated from accredited four-year institutions who apply for admission to work toward another degree will not be required to meet the regular basic studies requirements. The Admissions Office will review the transcripts of such students and, if there are glaring deficiencies, possibly recommend additional work in some areas.

A transfer student who has met the admission requirements of the upper level college of his choice should request an application to that college prior to his first registration.

MATURE STUDENTS

Mature persons (25 or older) may, by providing evidence that they are qualified to do the proposed work, enroll as non-degree students (in day classes or in the evening sessions) without meeting the requirements established for degree programs. They may transfer to degree programs later if their work as non-degree students indicates the likelihood of success. Work taken for credit as a non-degree student may later be counted in a degree program if it is applicable and of satisfactory grade.

EVENING SESSION STUDENTS

While serving degree-seeking and non-degree seeking students, the Evening Sessions of the University of South Florida offer only courses for full academic credit. Any student accepted as a candidate for a degree may enroll in courses offered in the evening which are appropriate to this program. The admissions requirements and achievement levels in the day courses and in the evening sessions are the same. The evening sessions are more fully explained elsewhere in this catalog.

SPECIAL CONSIDERATION

Freshmen or transfers with above average ability who do not meet all the aforementioned requirements may apply for special consideration. The application accompanied by a full letter of explanation and supporting information should be mailed to the Director of Admissions. It should be noted, however, that the regular guidelines are regarded as sound for the student and for the institution. Few exceptions are made.

PROCEDURE FOR APPLYING

Application papers may be requested as early as 18 months prior to anticipated enrollment. Secondary schools in the Tampa Bay area have application forms. Public school teachers wishing courses for certificate extension and other non-degree seeking students who feel that they fall into a special category should indicate the category in their initial inquiry and should inquire about special application forms.

There are definite advantages in applying early. Housing priority is explained elsewhere in the catalog. Each trimester has its own application deadline—usually 30 days prior to the first day of classes for the fall and about two weeks prior to classes for other trimesters. The application will be acknowledged and qualified students will be accepted. Upon receipt of test scores and evidence of completion of high school work, or upon the arrival of the final college transcript, final decisions will be made and the candidate notified.

All academic records must be mailed to the University of South Florida directly from the appropriate institution (i.e., high school record from high school attended; college record from each college attended; G.E.D. test scores from appropriate high school or State Department of Education; U.S.A.F.I. scores from Madison, Wisconsin; S.A.T. scores from high school or central office).

SUMMER COUNSELING CONFERENCES

It is anticipated that new students entering the University in September will attend one of the counseling conferences held each summer. The counseling conference is designed to acquaint students with the University and with each other and to accomplish in an organized and efficient manner those steps necessary to the completion of registration. Counseling conferences are also held for new students entering the University for the winter or summer trimesters.

New students' participation in the counseling program is urged because it assures maximum attention to the curricular and extra-curricular needs of the individual student. Some testing is included in the conference principally for the purpose of providing advisers with information about the student. Such information is necessary to realistic planning and the choice of appropriate courses. The conference also facilitates the transition from high school to college by assisting the student toward an understanding of the objectives of and opportunities in the University community. It further assures a specified period of time for private conference with a faculty adviser with a view to increasing the student's understanding of the programs and courses available through the University.

ORIENTATION TESTING

After admission, all students who are working toward an academic degree must take another battery of tests, the results of which

are to be used in advising them throughout their academic careers. This battery consists of measures of academic aptitude, reading and writing ability and measures of some of the other skills needed by college students. On the basis of these results some students may be advised to enroll for accelerated sections or for independent study; other students may be advised to seek remedial help concerning deficiencies these tests reveal. The battery consists of approximately six hours of testing and is usually taken either in the counseling conferences in the summer for new students or during the orientation week if not taken earlier. Students not enrolled in a degree program will be urged to take the full battery of orientation tests as do matriculated students.

The results of this orientation testing are published for the use of advisers. Students concerned about their performance on these tests may talk with their advisers about the matter.

Non-transfer students who have not taken the Florida State-Wide Twelfth Grade Tests prior to enrollment will be required to take them at a scheduled time during the first trimester in residence.

FEES

The following fee schedule applies to University of South Florida students:

1. Initial application fee (paid only once—not refundable).....	\$ 5.00
2. Registration fee, regular trimester, per credit hour, all students registering for less than seven hours credit.....	9.50
3. Tuition, regular trimester, per credit hour, non-Florida students registering for less than seven hours credit.....	13.00
4. Registration fee, regular trimester, all students registering for seven or more hours credit.....	113.00
5. Tuition, regular trimester, non-Florida students registering for seven or more hours credit.....	175.00
6. Registration fee, one-half trimester, per credit hour, all students registering for less than five hours credit.....	9.50
7. Tuition, one-half trimester, per credit hour, non-Florida students registering for less than five hours credit.....	13.00
8. Registration fee, one-half trimester, all students registering for five or more hours credit.....	60.00
9. Tuition, one-half trimester, non-Florida students registering for five or more hours credit.....	90.00
10. Transcript fee (after first free copy).....	1.00
(Extra copies 50 cents when included in one order)	
11. Applied music fees.....	35.00
12. Late registration fee.....	5.00
13. Audit fees (same rate as if registered for credit)	
14. Room and board (students living on-campus)	
Regular session, I, II and III, September—August.....	976.20
Any two consecutive trimesters.....	650.80
Trimester III only, April—August.....	325.40
Trimester III B only, June—August.....	162.70

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15. Food Service Plan (students living off-campus)	
Trimester I, II and III, each.....	185.40
Trimester III B.....	92.70
16. Cooperative Work-Study Program (for work trimester)	40.00
17. Student deposit (for full-time students).....	15.00

FLORIDA RESIDENCY

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

REFUND OF FEES

Students who find it necessary to withdraw from the University may be permitted to have a refund of fees upon presentation to the University Business Office of an authorization issued by the Registrar's Office. These refunds will be made under the following conditions:

1. No part of the student activity fee will be refunded if the student fails to surrender his identification card;
2. Deductions from authorized refunds will be made for unpaid accounts due the University;
3. The registration, tuition and other instructional fees will be refunded depending upon the date of withdrawal, as follows:
 - a. A full refund will be made if withdrawal is effected on or before the first day of classes in any trimester or summer session.
 - b. A fixed charge of \$5.00 in each regular trimester and \$3.00 in each summer session will be deducted from the total fee refund after the first day of classes, but on or before the final day of late registration.
 - c. A 50 per cent refund of the registration fee will be made if withdrawal is effected after the conclusion of the late registration period but on or before the day which marks the end of the third week of classes in a regular trimester or the first week of classes in Trimester III B.
 - d. No refund will be authorized on withdrawals which take place after the end of the third week of classes in a regular trimester or the first week of classes in Trimester III B.
4. A first payment on room rent and board of \$40.00 for a regular trimester and \$20.00 for the half-trimester sessions is made with

the application for housing on the campus. No refunds will be authorized on this payment after a room space is reserved for a student. Policies and regulations for housing and food service are explained fully in the housing application and brochure.

STUDENT DEPOSIT FEES AND CHECK CASHING SERVICE

At the student's first registration, every full-time student is required to pay a refundable deposit of \$15.00 to cover cost of replacement due to any loss or breakage of University equipment. The student will be required to maintain his deposit at a minimum of \$5.00 and will not be billed during the matriculation period except when the deposit falls below this amount. If the deposit falls below the minimum before the end of attendance at the University, the student will be notified by the University Cashier to bring his deposit up to \$15.00. Failure to comply will deny the student the privilege to re-register.

All deposits will be refunded by check within 30 days after the student's final departure from the University. If the student has registered on a full-time basis, the deposit will be extended for that period. If a student changes from full to part-time, he may apply to the Cashier's Office for a refund of the deposit.

The University will accept personal checks for accounts due the University. Each student is urged to make his own financial arrangements through his choice of commercial banks. The University Cashier or any of the auxiliary services, such as the University Bookstore, will cash personal checks not exceeding \$50.00.

ADVISING

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

Each student entering the University who participates in a counseling conference will have an appointment arranged for him with an adviser who teaches in the area in which the student plans to major. Shortly after the term has begun, new students are assigned faculty advisers in accordance with their stated educational objective. Individual advisee folders are prepared including admission data, test results and other pertinent information and forwarded to the adviser. Students who have not designated an objective are assigned without regard to the adviser's area of specialization.

Provisions are made to allow a change of adviser when a change would appear to be in the student's best educational interest. A change of educational objective is the most common basis for reassignment, but reassignment may be made at any time the student or adviser believes a change is desirable.

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A student must meet at least once each term with his adviser for the purpose of program planning for registration. However, the student is encouraged to visit his adviser whenever he feels in need of help with academic or personal problems. Although the adviser is essentially a resource person for assistance with academic and curricular matters, he can often refer the student to a source of specialized help when the problem is one with which he is not qualified to deal.

When the student is admitted to an upper level program at the beginning of his junior year, his folder is recalled by the Coordinator of Advising in the College of Basic Studies and forwarded to the admitting college or division. The assignment of advisers at the upper level is also made in keeping with the student's chosen major. Coordination of the advising program for freshmen and sophomores is the responsibility of the Coordinator of Student Advising under the Dean of the College of Basic Studies. Responsibility for advising in upper level programs is assumed by the division directors in the College of Liberal Arts and by coordinators designated by the respective deans in the Colleges of Business Administration and Education.

While the University provides extensive advising service to assist students with program planning, the final responsibility for seeing that all requirements are met rests with the student.

It is not necessary that a student have a specific educational goal in mind at the time he enters the University, but the student who has a general goal in mind is well advised to make it known to his adviser at their first meeting. Some courses of study require enrollment in key courses during the first year if the student is not to lose time in his work toward a degree. Both engineering and the medical sciences are curricula which illustrate this point.

SPECIAL ACADEMIC FEATURES

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

CREDIT BY EXAMINATION

Students eligible for a waiver of a basic studies course may, if they wish, apply to take the course by Credit by Examination. If the application is approved and presented at regular registration, they take the final examination with the class. Those making "B" or higher on the examination will receive college credit for the course. Those making "C" are still eligible for waiver but without credit.

Those making "D" or lower lose the waiver privilege and must take the course in class or use the course as the one authorized omission.

INDEPENDENT STUDY

Students wishing to take a course by independent study must submit an application on a form provided by the Registrar prior to the time classes begin. Approval of the adviser, a course representative and the appropriate dean or division director is required.

At the beginning of the trimester, the instructor, in conference with the student, shall specify in writing the work required for satisfactory completion of the course; in all cases this shall include the final examination given to the regularly enrolled students in the course.

Not all courses in the University will be given by independent study. The respective colleges will have jurisdiction to determine which courses may be taken by independent course study.

The regular grading system applies to all independent study registrations. As with credit by examination, the appropriate application for independent study must be completed and approved prior to and presented during regular registration.

ENRICHED SECTIONS

Certain basic studies courses list starred sections in the University Class Schedule. These are sections of the course adapted for particularly capable or particularly well informed students in the subject. Professors in these sections typically cover material more rapidly and bring in considerable outside material not used in the normal sections. Students believing they could profit from enrollment in these starred sections should question their advisers about the possibilities of doing so.

ADVANCED PLACEMENT

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

EXTRA LOADS

The normal load for full-time students ranges from twelve to eighteen hours each trimester. For most students seriously involved in study this is ample. However, some students find they can, with profit, take even heavier loads. To do so they must receive permission of the dean of the college in which they are enrolled and should clearly understand the difficulties they will encounter in taking as many as

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twenty-one hours. For some students, however, an overload is the best way for them to gain maximally from their college education. It should be noted, however, that under the trimester system the carrying of overloads is more difficult than under the semester system.

Registration for more than 18 credits requires approval of the dean or division director of the student's college. A first trimester freshman is only rarely permitted to undertake more than 18 credits. Thereafter, permission may be granted if the student's grade point is 3.0 or higher. Freshmen and sophomores who wish to carry more than 18 credits should be referred to the Dean of Basic Studies or the Coordinator of Advising.

HONORS

The University of South Florida, emphasizing as it does solid academic achievement, is developing ways of recognizing distinguished student achievement. Each trimester an honors list is prepared showing students who earned a grade-point average of 3.5 or higher for that trimester, and students who maintain this level of accomplishment are recognized each fall at an honors convocation. Honor societies are also being organized for outstanding students.

THE ALL-UNIVERSITY BOOK

All students enrolled in the University in a program leading to a degree are expected to participate in the All-University Book Program. This consists of reading a book each trimester which will be selected and announced by an all-University committee. Students will normally purchase their own copies of these books although the Library will maintain some copies of them.

Since all students, regardless of the particular courses they might be taking, will have read the same book each trimester, instructors of any course may refer to the book and ask questions about it in their classes.

GRADES AND EXAMINATIONS

There will be a final examination for every course offered by the University. These will be given during a regularly scheduled examination period. Final examinations may not be given at any other time except in those courses the very nature of which makes other arrangements necessary.

Courses which meet only at night will normally have the final examinations scheduled at night. Courses which meet during the daytime but which have evening sections will normally be scheduled for final examinations during the daytime. Students should therefore be prepared to make any necessary arrangements to meet their final examination schedule.

There will be a common trimester final examination for each 100 and 200 level course in the College of Basic Studies, prepared by the Office of Evaluation Services. While the nature of this final examina-

tion will vary with the nature of the particular course, final examinations will count for 50 per cent of the student's final grade.

Mid-trimester grades will be made out and reported in Trimesters I and II in all 100- and 200-level courses. Copies of these grades will be sent to the parent or guardian of all students under 21 years of age and of all students 21 or older who still list the home of their parent or guardian as their official residence. Married students living with their spouses, regardless of their age, will be the sole recipient of such grade reports. Instructors will be encouraged to test students frequently and to indicate to them the progress they appear to be making.

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

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

An X grade may be used for any authorized failure to meet the requirements of a course. An X grade resulting from any cause other than a 100 or 200 level basic studies final must be removed within three weeks of the next trimester the student is enrolled. Permission to remove an X resulting from a basic studies final must be secured from the Dean of Basic Studies within the first three weeks of the next enrollment and the exam completed at the end of the trimester for which permission is granted. Failure to meet applicable conditions will change the "X" to "F". Until removed, the "X" is computed in the grade point ratio as "F".

A "Y" grade is used chiefly in the College of Basic Studies and is a failing grade. It is used when the instructor believes that regardless of the grade a student earns on a final examination he should fail the course. A "Y" grade insures this failure. It is viewed as final and is recorded as "F".

A "W" indicates withdrawal without penalty from the course. A student may drop a course and receive a grade of "W" during the no-penalty period for the first three weeks of classes in a full trimester or for the first eight days of classes in Trimester III A or III B. After the no-penalty period and until the last full week before final examination, a student may drop courses with or without penalty. If the student is doing passing work at time of withdrawing from the course, he will receive a "W" grade; if he is doing failing work, he will receive an "F" grade. If a student drops from a course during the last week before final examinations or during the final examination period, he will receive an automatic "F" for that course.

The University has a system of grade points used in computing grade point ratios. The range extends from "A" equals 4 to "F" equals

0. Grade point ratios are computed by multiplying the number of credits assigned to each course by the point value of the grade given. The total of the credit points for all courses taken divided by the total number of credit hours earned equals the grade point ratio. For example, a student taking five three-credit courses who earned two A's and three B's would have a grade point ratio of 3.4.

If a student repeats a course for any reason, his grade point ratio will include each grade received. For example, if a three-hour course is repeated, it is computed as six trimester hours attempted.

ACADEMIC STANDING

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

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

Any student is not in good standing whenever his cumulative grade point ratio falls below 1.5 and his attempted hours are less than 30, or below 1.7 when his attempted hours are between 30 and 59 or below 2.0 when he has attempted more than 59 credit hours. Such a situation occurs generally because the student lacks the maturity, diligence or motivation to realize the necessity for adequate scholarly effort. Whenever a student falls into this status, he will be placed on warning and a notification to this effect will be sent to him. The student will be required to meet with his faculty adviser for additional assistance in identifying and correcting his difficulties.

A transfer student who was not in good standing at his prior institution but who for special reasons has been admitted to the University will be placed immediately on warning for a trial period.

All students who do not raise their grade point ratio to a level of good standing within the trimester in residence after being placed on warning shall be placed on final warning.

Whenever a student is placed on final warning, a notification of this will be sent to the student's parents or guardian unless the student is 21 years of age or older and is living independently of his parent or guardian. The student will be required to meet with his faculty adviser for additional assistance, and must forego holding any executive or committee office in any student or campus organization, and

forego participation in any student or campus organization which represents the University. The permanent academic record of the student's progress will show that he was placed on final warning and he must earn at least a 2.0 average regardless of trimester hours attempted during his next trimester in residence. Failure to do so implies that the student has disqualified himself from continuous attendance at the University and that he must wait at least one full trimester before becoming eligible to be considered by the Academic Standards Committee for readmission to the University.

DISQUALIFICATION AND READMISSION

A disqualified student seeking to gain readmission must apply to the Registrar.

If the student attends another college or university during this intervening period, he will be classified as a transfer student and his admission will be based on his total educational record. In rare and exceptional cases a disqualified student may petition the Academic Standards Committee for earlier readmission when it can be clearly demonstrated that circumstances beyond the student's control accounted for his academic problems.

A student who fails to qualify for admission to upper level work after attempting 90 credits will normally disqualify himself from further attendance at the University and thus not become eligible for readmission.

Any student who is readmitted to the University following disqualification will be placed immediately in a final warning status.

LEAVES OF ABSENCES

Any student in a warning or final warning status may be asked to take a mandatory leave of absence of one or more full trimesters before resuming his studies. At the end of the mandatory leave of absence period the student must petition the Academic Standards Committee for readmission to the University.

Any student may be urged to take a leave of absence if his teachers and advisers believe such an action will assist the student.

The administration of the system of warning status, final warning status, disqualification, mandatory leave, leave of absence and academic dismissal is the responsibility of the Registrar. He will work closely with other University officials and faculty advisers in these matters.

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

CLASS STANDING

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

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Freshman: up to 29 trimester hours

Sophomore: 30 to 59 trimester hours

Junior: 60 to 89 trimester hours

Senior: 90 or more trimester hours

The classification of special student is given to those who are not enrolled in a program leading to a degree and who have accumulated fewer than 30 trimester hours. Special students who accumulate 30 or more hours are advised to enroll for a degree program.

ADMISSION TO THE UPPER LEVEL

Applications for admission to an upper level college or program of the University are filled out during registration or in the Registrar's Office, and acceptance or non-acceptance is given by the college concerned. Admission is not automatic.

Generally, a student will be eligible for admission to an upper level college when he has completed the lower division requirements of the College of Basic Studies, demonstrated the required proficiency in four areas of physical education and completed at least 60 trimester hours with at least a 2.0 ratio. A student with 54 hours and a ratio of 2.0 or better may be admitted with special permission of the dean of the college involved.

In addition, students must meet the specific admission requirements of the college to which they are applying. These requirements are shown elsewhere in this catalog and should be verified with the college before application is made.

Students transferring into upper level college programs from other institutions must meet the same standards and requirements as those whose first two years were taken at the University of South Florida.

The state of Florida is planning on inaugurating an experimental testing program in the spring of 1964. The purpose of this program is to develop examinations that will be given to all sophomores in state-supported colleges and universities. Scores will be used initially for purposes of advising.

GRADUATION REQUIREMENTS

While each college sets specific requirements for graduation, the general University requirements must be met by every student upon whom a degree is conferred.

These general requirements specify that a student must earn at least 120 trimester 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 40 of his trimester credit hours must be for upper division level work (courses numbered 300 or above).

In addition to specific requirements of their major and of the college in which they are enrolled, candidates for graduation must also pass the senior seminar offered by the College of Basic Studies, take

the Graduate Record Examinations Aptitude Test and be recommended for graduation by the dean of their college.

All students must complete at least the last 30 hours of their undergraduate credit on the campus to qualify for a University of South Florida baccalaureate degree.

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

While every effort will be made to give each student appropriate advice in meeting major and graduation requirements, the final responsibility for meeting these rests with the student. He should study the catalog carefully and seek advice when in doubt.

GRADUATION WITH HONORS

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

AVAILABILITY OF COURSES AND PROGRAMS

The University does not commit itself to offer all of the courses, programs and majors listed in this catalog unless there is sufficient demand to justify them. Some courses, for example, may be offered only in alternate trimesters or years, or even less frequently if there is little demand. Some of the less popular majors may not become available until later in the University's development. Students wishing such majors may take what is offered here and major in some closely related field or transfer to an institution which offers the desired program.

NOTICE OF CHANGE IN STATUS

Notifications regarding change of address, change of citizenship, change of name, change in degree status, change in marital status, intent to enroll in another college (dual enrollment), intent to apply for upper level work, intent to drop or add courses or to withdraw from the University and intent to file (upon withdrawing) for the return of the \$15.00 breakage fee should be filed in the Registrar's Office.

FLORIDA CHRISTIAN COLLEGE EXCHANGE

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

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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.

ACCREDITATION

The University of South Florida is an established institution in the Florida state university system. It is fully accredited by the Florida State Department of Education for the preparation of teachers, and credits earned at the University are readily transferrable to other institutions in the system. The Southern Association of Colleges and Schools, official accrediting body for educational institutions in Florida, cannot by its regulations grant final accreditation to the University until it has graduated several classes; however, the association recognizes the University's unique status as a new institution. It recently created a special category of recognition for new institutions which meet all standards for which they are eligible but have not been in existence long enough to graduate their first classes of students. The University of South Florida will be eligible to apply for this recognition as a new institution late in 1963, and it will be eligible to apply for formal accreditation by 1965. In the meanwhile, the University has encountered few problems in having its students accepted for transfer to graduate and professional schools throughout the nation.

SELECTIVE SERVICE AND V.A. CERTIFICATIONS

From time to time, in addition to regular transcripts, the student may need special "student status" certifications from the Registrar.

If a student is eligible for draft, he may request from the Office of the Registrar that an Undergraduate College Student Certificate (SSS 109) be sent to his Selective Service Board. This official form certifies the scholastic status of the student. Submission of this form does not constitute a request for deferment under the provisions of Selective Service regulations. It is recommended that the student not request this form from the Registrar's Office until his Selective Service Board asks for it.

The University of South Florida is approved for the education and training of veterans under the Veterans Readjustment Assistance Act of 1952 (Public Law 550) and all other laws. To be eligible for P.L. 550 benefits, active duty in the armed forces prior to January 31, 1955, is required. The War Orphans Educational Assistance Act of 1956 (Public Law 634) provides educational benefits to the children of veterans who have died as a result of a "disease or injury incurred or aggravated in the armed forces during World War I, World War II, or the Korean Conflict." Inquiries relating to veterans education should be addressed to the Veterans Administration, Regional Office, P.O. Box 1437, St. Petersburg, Florida. Once approved by the Veterans Administration, (Form VA 22-1993 or 22-5493 received) contact should be made with the Office of the Registrar.

ACADEMIC SERVICES

A number of University offices and programs provide valuable supporting services to the academic program. Among these are the following:

DATA PROCESSING

The Data Processing Division provides centralized record keeping and other services for the Finance and Accounting Division, the Registrar's Office and a number of other campus offices. The division has IBM 1410 equipment providing computing and data processing facilities for research purposes. Faculty research can be conducted with the assistance of these facilities.

EDUCATIONAL RESOURCES

The Division of Educational Resources is responsible for a variety of all-University services. This division purchases, rents, catalogs, maintains and distributes the widest possible variety of instructional materials to assist faculty, staff and students in the realization of their educational goals. The following services are offered:

Radio. WUSF is an FM radio station operating on 89.7 mg. This station is available to disseminate University information, rerun major lectures, broaden the University's cultural offerings and actively participate in the teaching program. The station is also used as a laboratory for students interested in broadcasting and some students are involved in the daily operation of the station. This station is located on the ground floor of the Library.

Television. A closed-circuit system of direct cable connections to various buildings on campus is currently available. This system is available for direct teaching, educational enrichment, special events, and as a laboratory for students with special interests in broadcasting. Student assistants are used in almost all phases of the television operation. Both the studio and the central distribution center are located on the ground floor of the Library.

Audio-Visual. Audio-visual equipment and instructional materials for the classroom, University events and other functions are procured through this department. Operators for equipment are supplied when necessary, and some equipment is available on a loan basis. Public address systems, tape recorders and projectors of all kinds are available. There is production service for audio tapes and synchronized sound/picture presentations of various kinds.

Graphics. A variety of graphic services are available upon request for use in the classroom as well as the overall University program. Overhead transparencies, reproduction processes, original art work, posters, signs and art layouts for publication and printing are offered.

Photography. University photographs for publication as well as internal use can be requested. The service includes motion picture

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production in both 16mm and 8mm, enlarging and reduction of materials, the production of filmstrips and 2 x 2 slide duplication.

Instructional Materials Center. The center is responsible for acquiring, cataloging and maintaining a library of instructional materials including films, filmstrips, tapes, records, maps and slides. These materials are available to the faculty and staff for academic purposes. Certain records, filmstrips and other materials are loaned to faculty, staff and students for independent study and recreational purposes.

THE LIBRARY

It is important that a library should take into account not alone the books on its shelves but 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 is interested that students come to regard books as a way of life and that they use the Library regularly. It is the Library's aim that students should buy, read and discuss books and feel bereft when deprived of books. The University expects students to become thoroughly familiar with the University Library book collection, to master the techniques of using it, and before graduation, to achieve a familiarity with books which will carry over into later life.

The Library has about 60,000 volumes, and these holdings are being increased at the rate of approximately 20,000 volumes each year. The Library also subscribes to about 1400 journals. These resources provide a beginning toward library service for the University community.

The Library collection is made available to readers by means of an open stack system. The Library's basic policy is to encourage users to become familiar with many kinds of books by browsing through the stacks. There are reference librarians to assist in bibliographical searches or in locating material. Specialized areas include a browsing area in the first floor lobby, special collections area (including a Florida collection) and an art gallery.

WORK-STUDY COOPERATIVE PROGRAM

The Work-Study Cooperative Program of education has as its objective a balanced education where work experience is an integral part of formal education, and theory is blended with practice. In addition to regular classroom and laboratory exercises, it acquaints the student with the world of work and a professional environment. Students become acquainted with professional skills while obtaining their academic training. The ultimate objective of the program is to bring business, industry and governmental agencies close to the educational program of the University and have the graduates absorbed into permanent employment of the Southeast's leading employers.

The Work-Study program is particularly designed for recent high school graduates rather than older more mature students with considerable work experience. It also requires students of demonstrated academic ability. A student must have a minimum of 24 hours of academic work completed with a grade point average of 2.0 or better before being assigned to a team.

All University of South Florida cooperative programs are four years in length except in the field of engineering, which is a five-year program. Following two trimesters on campus the student is assigned to a team and alternates between trimesters of work (paid employment) and trimesters of study until he reaches the senior level, when he returns to the campus to complete his academic requirements.

The University will assign students to work relevant to their educational and professional goal. Usually students are first placed on those jobs of an employer where they learn the fundamentals. They may then advance in the type of work they do from work period to work period. During the early years of the program most of the cooperative employers will be in Florida, many in the Tampa Bay area. Many types of enterprises have joined the University as cooperative employers. Some of the first to welcome the program included public utilities, financial institutions, chemical plants, department stores, hospitals, school systems, the construction industry and the National Aeronautics and Space Administration. This latter agency has taken a number of teams at the George Marshall Space Flight Center at Huntsville, Ala., the Launch Operations Center at Cape Canaveral, Fla., and the Manned Spacecraft Center, Houston, Tex.

Students are encouraged to make application for placement in the program during their first trimester on campus even though they must complete at least 24 hours of academic work before being assigned to an employer.

Work-Study students are encouraged to take one course during each work period. This may be a regular course taken by class attendance or by independent study, a course from the extension division of the Florida Institute for Continuing University Studies, or a Special Problems course in an area appropriate to the student's major interests. Most of these Special Problems courses carry a course number of 481. They may be repeated and credit may vary from one to three hours per trimester, the amount to be determined at the time of advising. Students should file an application for dual enrollment with the Registrar prior to enrolling in any FICUS courses.

The registration fee for the work period is \$40.00 and covers the fee for one three-hour course, the student health program, student publications and privileges enjoyed by other full-time students. Transfer students are welcome to select the program and should make application during their first trimester at the University of South Florida.



IV. ACADEMIC PROGRAMS

The University of South Florida programs are presently conducted through four colleges. The College of Basic Studies provides the basic general education needed by all students. The College of Business Administration offers professional courses appropriate for its general field, as does the College of Education. The College of Liberal Arts offers courses in the arts and sciences, including a variety of professional and pre-professional programs. Each of these colleges has its own requirements and standards. However, all share University-wide emphases and common requirements for graduation. All presently offer only one degree, the Bachelor of Arts, although other degrees may be offered in the future.

Each college has prepared its course offerings with strong undergraduate programs clearly in mind. While there is a reasonable variety of courses in each of the major subjects, highly specialized courses such as are appropriate in graduate school are not yet offered. Students are urged to make their college education a broad one, reserving intensive specialization until they are on a job or have gone on to graduate or professional school. To insure that this happens, the University has established the policy that no major may require more than 40 credit hours in any one subject and each student must qualify in at least 60 credit hours outside the division of the major. Students taking more than 40 credit hours in one subject must take them in excess credits beyond the minimum required for graduation.

Each college accepts the idea that a college education begins with a broad base of general courses, proceeds to more specialized work and ends with a formal effort to bring together the many separate threads of an education into a significant pattern. Thus all students enroll first in basic studies courses, then in courses in the college where they wish to concentrate, and finally in a senior integrating seminar. It is hoped that students will constantly attempt to synthesize their education as they move along and that they will have had considerable experience by the time they reach their senior seminar.

None of the colleges is organized by subject matter departments such as are found in many colleges and universities. The decision to use more comprehensive units was based on the belief that students should be encouraged to take courses in a number of related subjects rather than to concentrate all their energies on one or a few subjects alone. Thus each student may, if he wishes, graduate with either a subject major, a divisional major or with a major embracing courses in several different divisions, or even colleges.

SUMMER SESSIONS

The Summer Sessions (Trimester III B) are an integral part of the academic program of the University of South Florida. Most summer courses are identical with those offered at other times during the academic year and are taught by the regular University instructional

staff or by outstanding visiting teachers. In addition to these regular courses there are various workshops, institutes and conferences conducted by specialists.

While the Summer Sessions may serve as a continuation of the third trimester of the academic year for regular students, these courses and programs have an added emphasis for in-service teachers and for beginning freshmen just graduated from high school.

THE EVENING PROGRAM

The Evening Program of the University of South Florida is designed to meet educational needs of people within commuting distance. Course offerings have been created to provide community service and to meet the cultural and professional needs of persons otherwise occupied during the day but who wish to spend leisure time in organized study. For these people, the Evening Program provides work toward a university degree or offers selected courses for personal or professional advancement.

The admission requirements for the Evening Program are the same as those for other students. Evening students must complete an application for admission to the University of South Florida and present all material required and described earlier in Section III.

Students admitted to the Evening Program may select courses to fit their needs without necessarily meeting prerequisites. However, students who do waive these requirements must possess sufficient background and experience to compensate for them. The student and his adviser should determine the need for prerequisites and the level of courses in which he will enroll.

The Office of the Coordinator of the Evening Program is open each evening classes are in session. Other administrative offices of the University are open only during normal operating hours of the day. Students are free to consult with the coordinator of the program on any evening or during the day on any problems or questions that may arise.

Courses of the Evening Program normally meet two times per week on alternating days, i.e., Monday and Wednesday or Tuesday and Thursday. The courses of the Program contain the same material and requirements as their equivalents offered during the day. Each student will be expected to meet the same standards of performance and pass the same examinations full-time day students are required to complete. Grades and progress will be based on the same system applicable to full-time students.

The faculty of the Evening Program consists of faculty members who also teach courses offered during the day. They also serve as advisers for part-time students. Students will be assigned to advisers shortly after admission to the University and will continue with the assigned adviser so long as they remain students at the University and the relationship remains satisfactory. Advisers are assigned on the basis of the educational objectives of the student. Any change in

advisers will be accomplished through the Coordinator of the Evening Program.

Students may enroll in courses offered by any of the colleges of the University. As a general rule, part-time students attending night classes are encouraged to take no more than two courses. No student may enroll in more than three courses in any one trimester.

Students seeking degrees through the Evening Program must meet the same degree requirements as full-time day students. These requirements are set forth under the appropriate college.

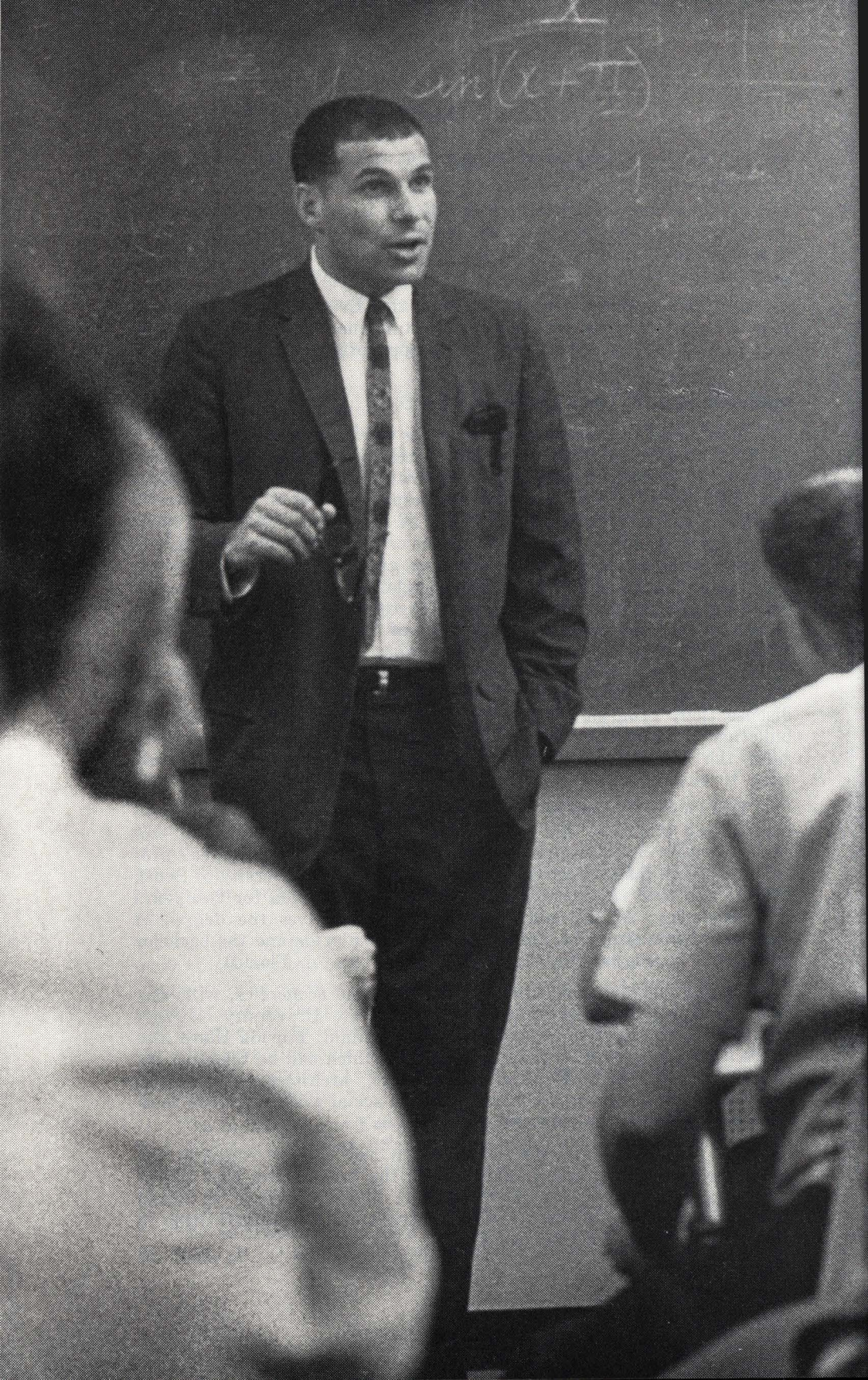
PRE-PROFESSIONAL PROGRAMS

In addition to the vocational training which students can complete at the University of South Florida, programs are provided which are basic to completing a vocational preparation at another institution. The University offers curricula to prepare students for entrance directly into such professional schools as medicine, dentistry, veterinary medicine, law or theology. Whether or not a student entering one of these programs will stay four years at the University of South Florida or will transfer before the completion of four years depends on which professional school he elects to attend. Some medical schools accept outstanding students at the end of the junior year, but most require a bachelor's degree before admission. The same differences are found in law schools and other professional institutions. Students who are planning to enter one of these pre-professional curricula should discuss their program with their adviser, should read carefully the bulletins of institutions to which they might transfer, and should consider the specific branch of professional education they ultimately wish to enter.

The University offers two preparatory programs for prospective engineering students. One is a two-year program from which a student transfers to an engineering school. The other is a five-year program in which the student takes three years at the University of South Florida and then transfers to the University of Florida for two years of engineering. At the end of this time he receives the degree of bachelor of arts from the University of South Florida and the bachelor of science in engineering from the University of Florida.

Similar combinations are possible for home economics, with students finishing their degree from Florida State University or other institutions having a home economics curriculum. Florida State also offers a degree in nursing, the first part of which can be taken at the University of South Florida. Agriculture, architecture, forestry, health services, pharmacy, library work and social work are other vocations in which joint programs are possible.

The prospective student interested in any career requiring collegiate education may safely take at least the first part of that education at the University of South Florida without danger of losing substantial numbers of credits when he transfers to the institution in which he will complete his work.



COLLEGE OF BASIC STUDIES

INTRODUCTION

The College of Basic Studies provides that part of a formal university education which should be common to all graduates of the University of South Florida. All students enter the college as freshmen and must complete its requirements before entering one of the other colleges of the University.

Lower division courses are offered by the college in seven areas. Completion of six credits each in six of these areas satisfies the lower division basic studies requirement. Ordinarily, a student would enroll in three basic studies courses in each of his first four trimesters, completing his program with introductory courses from the other colleges. Which area to omit is to be decided by each student, in conference with his adviser; a suggested guide is to omit the area in which competence is greatest or the one most closely related to a proposed major. Students may, of course, take all seven courses for credit.

WAIVER

Some entering students have already achieved competence in one or more areas of the basic studies. These students may request a waiver of one or more of the basic studies requirements. Applications for waiver must be completed in the Registrar's Office during the first trimester the student is in attendance at the University. Routine approval will be granted when applications meet the following conditions: (1) a score of 425 or higher on the Florida State-Wide Twelfth Grade Tests; (2) a grade of "C" or better in each of three or four years of relevant high school work. Requirements specific to the area in which waiver is requested are as follows:

Functional English:	No waiver available.
Human Behavior:	Evidence of competence acquired elsewhere.
Natural Science:	Three or more years of high school science, including biology, chemistry and physics.
Functional Mathematics:	Three or more years of high school mathematics, including two years of algebra and one semester each of geometry and trigonometry.
Functional Foreign Languages:	Three or more years of one foreign language.
American Idea:	Four or more years of high school social studies, including one year of world history and one year of American history.
Humanities:	Evidence of competence acquired elsewhere.

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Lower division basic studies requirements may be satisfied by independent study or credit by examination, according to the procedures described in Section III of this catalog.

PLACEMENT OF STUDENTS IN LANGUAGE CLASSES

The appropriate placement of students in language courses is often a difficult matter calling for consultation with a member of the language staff. The general placement rule that one year of high school language is equivalent to one trimester of college language can be applied in most cases. If the student has any doubt as to which class he should enter, he must either consult his adviser, who will find detailed information on this matter in the Manual for Faculty Advisers, or consult with a member of the language staff.

ADVANCED BASIC STUDIES MAJOR

Students who wish to take a major in advanced basic studies must take all eight 300-level courses offered by the college, plus the Senior Seminar and 12 or more upper level credits in one sequential program approved by the dean.

BASIC PHYSICAL EDUCATION

The required program in Basic Physical Education is planned to build on the prior knowledge and experience of students. Those who have already obtained the necessary knowledge and all or part of the skills required may meet these requirements by proficiency examination or evidence of adequate prior experience. For others not so prepared, appropriate courses are offered.

The four-trimester requirement in Basic Physical Education must include: (1) Functional Physical Education, (2) aquatic sports, (3) individual and dual sports and (4) an activity elected from any area.

Functional Physical Education (PE 101) is a prerequisite to all areas except aquatics, and must be met through regular class enrollment or authorized independent study. Students enrolled in PE 101 scoring less than the 25th percentile in the motor fitness test will be required to take special conditioning. Medically limited students will be assigned to an appropriate activity course or courses on the basis of their limitations.

Normally a student will register for one of the required areas during each of his first four trimesters. PE 101 may be taken either term of his first two trimesters of the freshman year, but must be taken during that year. Three of the requirements must be completed before a student can be admitted to an upper level and the fourth before he attains senior status.

The Basic Physical Education requirements will be waived for any student who has reached his 25th birthday at the time of his first enrollment. This does not prohibit such students from electing to take

physical education. Prior military service is not a substitute for the requirements of physical education. Physical education proficiencies and enrollment in appropriate physical education courses will be established individually for handicapped students by a joint decision of the Director of Physical Education and the Director of the Student Health Center.

For the three required areas other than PE 101, requirements may be met by whichever of the following methods are deemed most suitable to the student and staff:

1. By proficiency examination. Proficiency examinations may be attempted prior to or concurrently with PE 101. Students may not attempt a proficiency examination in any activity for which they are currently enrolled. There is no penalty for failing proficiency tests, and they may be retaken. Proficiency examinations are not available for every activity listed in the curriculum. There are two parts to the proficiency examination: (1) a written test covering rules, history, strategy and basic fundamentals and (2) a skill test in the chosen activity administered only to those who have successfully passed the written portion. The level of competency needed for successful completion of the written and skill tests is basically that of a student who has taken the course and received a grade of "B" or better.
2. By presenting evidence of adequate prior experience. If evidence presented indicates a fairly high degree of skill in a designated area, the student is not required to take a proficiency examination. Current life saving certificates, membership on swimming teams, city, state or national ratings, established handicaps, two high school or collegiate varsity awards are examples of evidence necessary to meet the Basic Physical Education requirement by prior experience.
3. By enrolling in one aquatics activity, one individual or dual sport and one elective from any area and receiving a passing grade.

No credit points are given for Basic Physical Education.

For programs in professional physical education see the College of Education.



COLLEGE OF BUSINESS ADMINISTRATION

INTRODUCTION

The College of Business Administration places emphasis upon its students acquiring knowledge about, and a better understanding of, the challenge and opportunities of the rapidly changing environment in which students will work or operate a business.

Procedures and practices used efficiently today could become obsolete even before the student graduates. Therefore, it is more important that the student learn principles inherent in a subject he studies and to use these effectively under different circumstances than to be concerned with memorizing fixed information.

With this goal in mind, the college seeks to meet the following principles:

1. To prepare students for a succession of jobs rather than their first job or for top management.
2. To give the student a broad foundation in general and liberal education, a thorough grounding in basic business courses, some technical competence in at least one significant area of business and the ability to apply these to major practical business problems.
3. To strengthen students' powers of imaginative thinking, creative independent analysis and sensitiveness to social and ethical values.
4. To instill in each student a desire for learning that will continue after he has graduated and taken his place in the business community.
5. To convey to each student the spirit of pioneering, risk and adventure long a unique characteristic of the American business scene.

ADMISSION REQUIREMENTS

Students will be admitted to the College of Business Administration who have fulfilled the following requirements:

1. Successful completion of at least six of the seven lower level courses in the College of Basic Studies.
2. Satisfactory completion of the four required physical education competencies.
3. Completion of 60 or more trimester hours with a grade point ratio of 2.0 or higher.
4. Satisfactory completion of the foundation courses Elementary Accounting (AC 201-202) and Economic Principles (EC 201-202). Provisional admission is possible in some instances.

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REQUIREMENTS FOR GRADUATION

	Trimester Hours
Basic Studies	36
College of Basic Studies Senior Seminar	3
Electives outside Business and Economics	21
Business Core	
Elementary Accounting	6
Economic Principles	6
Business and Economic Statistics I	3
Intermediate Economic Theory	3
Business Law	3
Principles of Finance	6
Principles of Management	3
Principles of Marketing	3
Senior Seminar in Business Administration	3
Courses in Business or Economics depending on the major (Transfer students must complete at least six of these credit hours at USF.)	15
Business electives not in student's major field	9
	<hr/>
Total trimester hours required for graduation	120

Candidates for graduation must also take the Graduate Record Examinations Aptitude Test.

The only exceptions to these requirements are those allowed students in the Business Teacher Education Program.

CURRICULA AND PROGRAMS

1. ACCOUNTING

Major Requirements—AC 301, 302, 401 and two of the following: AC 323, 411, 421, 423, 431. (AC 323, 411, 421 and 423 are all required to qualify for CPA examination.)

Business Electives—GA 362, OA 451 and one other business course.

General Electives—These 21 hours must be taken outside the College of Business Administration. It is strongly recommended that all accounting students take SH 201.

Recommended Courses in College of Basic Studies—CB 101-102, 103-104, 109-110, 201-202 and two of the following: CB 105-106 or 107-108, 111-118, 203-204.

2. ECONOMICS

Students may concentrate in General Economics, Labor and Industrial Relations or International Business and Economics.

Major Requirements—EC 323, 401 and three other courses in desired concentration as follows:

General Economics—one of the following: EC 405, 433, 437; and two additional economics courses to be selected.

Labor and Industrial Relations—EC 311, 313, 411.

*International Business and Economics—EC 351, 451 and FI 351.

Business Electives—Three courses in College of Business Administration.

General Electives—These 21 hours must be taken outside the College of Business Administration. A course in philosophy is recommended.

Recommended Courses in College of Basic Studies—CB 101-102, 103-104, 109-110.

3. FINANCE

Major Requirements—FI 351, 411, 421, 431 and EC 323.

Business Electives—Three courses in College of Business Administration.

General Electives—These 21 hours must be taken outside the College of Business Administration. It is strongly recommended that all finance students take SH 201.

Recommended Courses in College of Basic Studies—CB 101-102, 109-110.

4. MARKETING

Major Requirements—MK 311, 315, 411, 415, 489.

Business Electives—Three courses in College of Business Administration of which two must be chosen from the following: EC 101, 323, 341.

General Electives—These 21 hours must be taken outside the College of Business Administration. It is strongly recommended that all marketing students take SH 201.

Recommended Courses in College of Basic Studies—CB 101-102, 103-104, 109-110.

5. OFFICE ADMINISTRATION AND BUSINESS TEACHER EDUCATION

Major Requirements—OA 143, 251, 253, 351, 361, 451. Office Administration students may substitute other courses in business or some other college for OA 143, 251, 253. Business Teacher Education students may substitute electives in general education or liberal arts (i.e., speech, Introduction to Teaching, etc.) for OA 251, 253. In lieu of OA 251, 253 and 351, OA students

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may take the following: GA 341, 343 and one business elective. Introductory Typewriting is a non-credit course. Typewriting proficiency is required to enroll in Advanced Typewriting.

Business Electives—BTE students have no business electives. OA students have six hours of such electives which may be chosen from the following: OA 353 or 461 and AC 305 or other business elective.

General Electives—Students taking the Office Administration Program have 23 hours of electives which must be taken outside the College of Business Administration. Those taking BTE have eight hours of such electives and these must be in general education to comply with state certification regulations.

Professional Education—Students taking the BTE program must take the following courses to meet state certification requirements: ED 205, 343, 401, 402, 403, 499.

Recommended Courses in College of Basic Studies—CB 101-102, 103-104, 105-106 or 107-108, 109-110, 201-202, 203-204.

6. PERSONNEL AND GENERAL ADMINISTRATION

Major Requirements—GA 341, 343, 431, 445, plus one other course to be selected. Students desiring a concentration in General Administration must complete two of these courses: PA 421, FI 411, MK 311, instead of GA 343 and 445.

Business Electives—EC 311, 313 and AC 305 or 421.

General Electives—These 21 hours must be taken outside the College of Business Administration. Six hours of psychology or sociology are recommended. It is strongly recommended that all personnel and general administration students take SH 201.

Recommended Courses in College of Basic Studies—CB 101-102, 103-104, 107-108, 109-110, 105-106 or 203-204, 111-118 or 201-202.

7. DISTRIBUTIVE EDUCATION

Major Requirements—MK 311, 315, 411, 415.

Business Electives—None.

General Electives—Nine hours. Six hours of these electives must be in general education to comply with state certification regulations.

Professional Education—Students must take the following courses to meet state certification requirements: ED 205, 401, 402, 403, 443, 499.

Recommended Courses in College of Basic Studies—CB 101-102, 103-104, 109-110.

***8. PRODUCTION AND QUANTITATIVE ANALYSIS**

Major Requirements—PA 351, 421, 423, 451, plus one other course to be selected.

Business Electives—EC 431, AC 305 or 421 and one other business course.

General Electives—These 21 hours must be taken outside the College of Business Administration. Ten hours of geometry and calculus is required. It is strongly recommended that all production and quantitative analysis students take SH 201.

Recommended Courses in College of Basic Studies—CB 101-102, 103-104, 107-108, 109-110, 105-106 or 203-204, 111-118 or 201-202.

*Courses and programs marked with an asterisk may not be offered in the 1963-64 academic year.

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COLLEGE OF EDUCATION

INTRODUCTION

A good teacher is first a dedicated person who believes that civilization cannot long exist without enlightenment. He possesses knowledge of his subject and the fundamental concepts underlying the process of learning, thus enabling him to lead his pupils to seek and love truth. An educational program to produce such a teacher must synthesize subject matter and process it into a balanced whole. The University of South Florida teacher education program is based on this philosophy. The University follows an all-University 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. It is the task of the College of Education to give leadership to the entire teacher education program, including subject matter and process.

ADMISSION REQUIREMENTS

While each student admitted to the University is expected to have the qualifications to graduate, this does not necessarily mean that he is expected to have the qualifications to become a teacher. The College of Education, therefore, carefully selects its students from its applicants.

All students entering the teacher education program are enrolled in the College of Education during their junior and senior years. Prospective secondary teachers follow joint programs involving both the College of Education and the College of Business Administration or the College of Liberal Arts.

Students should apply to the College of Education for admission to the teacher education program at the beginning of the second trimester of their sophomore year, and at that time they should arrange to meet testing and interview requirements. If accepted, they will be admitted in the first trimester of their junior year. Acceptance is one phase of a continuous and cumulative selection process which continues throughout the internship program.

Admission to the College of Education will require:

1. Completion of a formal application.
2. Completion of requirements of the College of Basic Studies and a minimum grade point average of 2.0.
3. Clearance by medical center.
4. Approval by speech and hearing clinic.
5. Demonstrated proficiency in spoken and written grammar.
6. Satisfactory scores on a battery of tests and inventories.
7. Interviews conducted by a College of Education faculty member (a minimum of three conferences with each student). If further testing (psychological, physical or academic) is judged desirable, the student will be directed to appropriate agencies of the University.

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8. Written recommendation by the College of Education faculty member who conducted the interview.
9. Successful completion of the sophomore course, Human Development and Learning.
10. The approval of the Committee on Admissions of the College of Education. (When applications from prospective secondary teachers are considered the committee is enlarged to include a representative from the major teaching field.)

ADMISSION TO PROFESSIONAL LABORATORY EXPERIENCES

The required professional laboratory experience in the teacher education program consists of four phases: (a) school classroom observations as an integral part of each professional education course, (b) a 10-day experience in a public school observing and participating in pre-school planning and in the beginning of classes, (c) a minimum of three hours per week for one trimester as an aide to a teacher, either in the public schools or at the University and (d) a six-hour credit experience as an intern (student teacher) during the latter half of the senior professional education block.

An intent to intern should be filed immediately after being admitted to the teacher education program. In order to schedule the opening-school experience and to issue internship applications it is necessary that this intent be filed during the school year prior to these experiences.

Special requirements for participation in the internship experience are:

1. Filing of an application to intern.
2. Admission to the teacher education program.
3. Successful opening-school experience.
4. Successful teacher-aide experience.
5. Satisfactory credit in pre-intern professional education courses.
6. Completion of at least three-quarters of teaching specialization.
7. Three letters of recommendation from faculty members, including one in the professional education area and one in the specialization area.
8. Overall 2.0 grade point ratio.

COLLEGE REQUIREMENTS FOR GRADUATION

A student to be certified by the College of Education as having completed its requirements must have earned 120 trimester hours with a grade point average of "C" or better. He must also have completed the major requirements in an approved teaching program, taken the Graduate Record Examinations Aptitude Test and passed the senior seminar in the College of Basic Studies. A minimum of nine credits in professional courses and 12 credits in specialization courses must have been earned in residence.

RECOMMENDATION FOR FLORIDA STATE CERTIFICATION

The Dean of the College of Education has the responsibility of recommending for Florida state teacher certification any applicant who graduates from the University of South Florida. The decision on whether to make the recommendation will be on the basis of the applicant's character, academic proficiency, commitment to teaching, emotional stability, personal and social qualities and his demonstrated teaching ability during the internship period. Before recommending teacher certification, the dean will consult with various faculty members who have taught the student at the University of South Florida.

A person who has previously earned a bachelor's degree and has decided to complete his teacher education program at the University of South Florida is required to take a minimum of 27 trimester hours in residence. Twelve of these 27 hours must have been satisfactorily completed prior to enrollment in the 15-hour internship block.

TEACHER EDUCATION CURRICULA AND PROGRAMS

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

1. GENERAL PREPARATION (45 CREDITS)

Elementary teacher candidates must take CB 101-102, 103-104, 109-110, 201-202, 203-204, 401 and either 105-106 or 107-108. ED 101 and six hours of a functional foreign language are strongly recommended. If substitutions are made they must be part of a planned program.

Secondary and K-12 teacher candidates have the same general preparation requirements as prospective elementary teachers, except the student may take either mathematics or foreign language, although both are strongly recommended.

2. PROFESSIONAL EDUCATION PREPARATION (21 CREDITS)

Both elementary and secondary candidates must take ED 205, 401-402, 403 and 499. Elementary candidates must also take ED 440, and secondary candidates must take three hours in methods of teaching their major subject(s) from within the block of courses numbered ED 441 through ED 463.

3. SPECIALIZATION PREPARATION

Requirements in the area of specialization depend upon the subjects a student will specialize in and the level (elementary or secondary) at which he wishes to teach.

Elementary teacher candidates must have ED 205 as a pre-requisite. They must take 27 hours of elementary specialization courses taught in three areas of nine trimester hours each. These areas are (1) Aesthetic and Recreational Learnings (art, music and physical education—ED 303, 305 and 307), (2) Communication Arts (reading, language and literature—ED 309, 311 and 313) and (3) Environmental Concepts and Understandings (arithmetic, science and social studies—ED 315, 317 and 319). Students register for these courses in nine-trimester blocks, thereby avoiding unnecessary duplication and approaching the subjects both as separate entities and as interrelated disciplines.

Each elementary education major must also choose, with the assistance of his adviser, a teaching specialization in depth. This should include a minimum of 18 trimester hours in an area of concentration that will be helpful to an elementary school teacher.

Kindergarten through twelfth grade teacher candidates must meet certification requirements for teaching at any grade from kindergarten through the senior year of high school. These students can satisfy the specialization requirements in any one of three areas:

1. **ART EDUCATION.** Required courses are AR 101-102, 201-202, 271, 311, 321, 331, 341 and 373; ED 379; FA 301-302 and 491; and six hours of electives in art history, for a total of 46 hours.
2. **MUSIC EDUCATION.** Programs in both instrumental and vocal music are offered in this area.

Instrumental music students must take MU 101-102 and 201-202; FA 301-302 and 491; ED 431, 432 and 433; four credits of study with the minor instrument; three credits of work in ensemble; and 12 credits of study with the major instrument, for a total of 49 credits.

Vocal music students must take MU 101-102, 121, 201-202, 231 and 431; FA 301-302 and 491; ED 435, 437 and 439; and three credits of work in ensemble, for a total of 49 credits.

3. **PHYSICAL EDUCATION.** All physical education majors are expected to participate in intramural sports and the physical education majors club.

Men students must take the following non-credit basic physical education courses: PE 101, 119, 150, 152, 160, 168, 169, 170 and either 132, 134 or 136. Women students must take PE 101, 118, 120, 150, 152, 160, 166, 168, 170 and either 132, 134 or 136.

The professional physical education requirements are as follows for all students: ED 301 and 307; ZO 271; and EP 203, 217, 301, 323, 353, 354, 361, 451 and 455, for a total of 31 hours. In addition, men students must take EP 321, 331, 332 and 357, for a total of 10 hours, and women students must take EP 333, 334, 342 and 359, for a total of 10 hours. Electives for physical education majors include EP 341 and 460.

Secondary school teacher candidates generally are required to meet specialization requirements in broad subject fields or in sub-

ject 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 any one of eight areas:

1. **BUSINESS EDUCATION.** To qualify to teach business education, students must take the Business Core of 36 trimester hours, as listed in the graduation requirements of the College of Business Administration. They must also take OA 143, 251, 253, 351, 361 and 451, for a total of 16 hours. OA 251 and 253 may be replaced, with special permission, by electives in general education or liberal arts (e.g., speech, Introduction to Teaching).
2. **DISTRIBUTIVE EDUCATION.** To qualify in the area of distributive education a student must take the Business Core of 36 trimester hours as listed in the graduate requirements of the College of Business Administration. He must also take MK 311, 315, 411 and 415, for a total of 12 hours, plus an additional nine hours of electives, six of which must be in general education or liberal arts.
3. **ENGLISH.** Certification for high school teaching in English can be earned by satisfying specialization requirements in one of three curricula: English-Journalism, English-Speech or English-Modern Foreign Language. Because high school English teachers are expected to serve as advisers in oral or written English activities, the prospective teacher of English who does not have a foreign language specialty should study carefully either the English-Journalism or English-Speech certification programs.

English-Journalism students must take SH 201, 203, 221 and 321; ED 449; EN 201, 203, 205, 207, 221 or 341, 391, 411, 417 and 491; three hours of literary criticism; and three hours of advanced writing, for a total of 48 credits.

English-Speech students—those who plan to teach in high school and those who plan to do graduate work in preparation for college teaching—must take the following 51 hours: EN 201, 203, 205, 207, 221, 411 and 417; SH 201, 203, 221, 361 or 365; TA 101; six hours of electives in literature; six hours of electives in speech; and either SH 491 or EN 491.

English-Modern Foreign Language students must take 27 hours in English and speech and 24 hours in one foreign language above the basic courses, for a total of 51 hours. The required courses are: EN 201, 203, 205, 207, 221 and 411; SH 201, 203 and 221. The requirements in language (Spanish, French, Russian or German, whichever is chosen) are nine hours of literature in the language, nine hours of advanced courses selected by an adviser in the language, three hours of advanced composition and grammar in the language and three hours of advanced conversation and pronunciation in the language. Native speakers should substitute a literature course in the language for the course in advanced conversation and pronunciation.

tion. Recommended electives in this curriculum are EN 417, LI 301 and 317, GN 413 and RN 415. Because this program gives certification in both English and a language, students must take a course in the methods of teaching each. One of the methods courses should be taken during the trimester of internship and the other should be taken the preceding trimester.

4. **FOREIGN LANGUAGE.** Students seeking certification to teach foreign languages can satisfy specialization requirements in two modern languages or in a modern language and Latin, or in Latin and English.

Two-language students must complete the Basic Studies language requirements, or their equivalent. In the major language (French, German, Italian, Russian or Spanish) the student must earn an additional 24 trimester hours, and in the minor language the student must earn an additional 18 trimester hours. The major language requirements are courses numbered 301, 303, 305, 306, 307 and nine hours of advanced courses selected by an adviser in the appropriate language; the minor language requirements are courses numbered 301, 303, 305, 306, 307 and three hours of advanced work in a course selected by the language adviser. Native speakers must substitute an additional literature course for 303. Recommended electives include EN 335-336 and 337, HU 323-324 and courses in history, literature and social sciences applicable to the language concerned.

Latin-modern language students who have had the first year of college Latin or two years of high school Latin must complete 27 trimester hours in Latin and 18 in the modern language of their choice. The Latin requirements are: LA 221-222, 311, 313, 411, 413 and 481; LI 301 and 303. The modern language requirements are courses numbered 301, 303, 305, 306, 307 and three hours of work in an advanced course selected by an adviser in the language. Recommended electives include EN 335-336, HU 323-324, AR 301 and HI 321.

Latin-English students must complete programs of 27 trimester hours each in both Latin and English. Since the student will be certified in two fields, he must take a methods course in both, one during the trimester of internship and the other the preceding trimester. Requirements in English are EN 201, 203, 205, 207, 221 and 401; SH 201, 203 and 221. Requirements in Latin are LA 221-222, 311, 313, 411, 413 and 481; LI 301 and 303. Recommended electives are EN 335-336 and 337; RL 417, GN 413, RN 415, HI 321, AR 301 and HU 323-324.

5. **MATHEMATICS.** Certification can be earned in mathematics alone, or in combination with physics. The combination program is listed under the heading of Science. Specialization requirements in mathematics are MA 101, 203, 204, 205, 309, 321, 323 and eight hours of electives, for a total of 32 trimester hours.

6. **SCIENCE.** Specialization requirements can be met in a program of general science. In addition, options are offered within the

three science specialization programs of biology-chemistry, chemistry-physics and physics-mathematics. The options place emphasis on one or the other of the two principal disciplines in the program.

Note: Students who have previously taken CP 201 and CH 202 are not required to take CH 211-212. Students who have previously taken CP 201 and PH 202-204 are not required to take PH 205-207 and 206-208. Students who have previously taken CP 201, PH 211-213 and PH 212-214 are not required to take PH 221-223 and 222-224.

Biology-chemistry students who wish to emphasize biology must take BZ 201 and 331, BO 202, ZO 202, eight hours of electives in biology, CH 211, 212, 231 and 321, for a total of 41 trimester hours.

Biology-chemistry students emphasizing chemistry must take CH 211, 212, 321, 331 and 332, four hours of chemistry electives, BZ 201, BO 202, ZO 202 and four hours of electives in biology, for a total of 41 trimester hours. The election of GY 201-202 or an astronomy course, in addition to this program, will also qualify a student for a general science certificate.

Chemistry-physics students who wish to emphasize chemistry must take CH 211, 212, 321, 331, 332, five hours of electives in chemistry, PH 205-207, 206-208, 301, 341, 342 and 401, for a total of 41 credits.

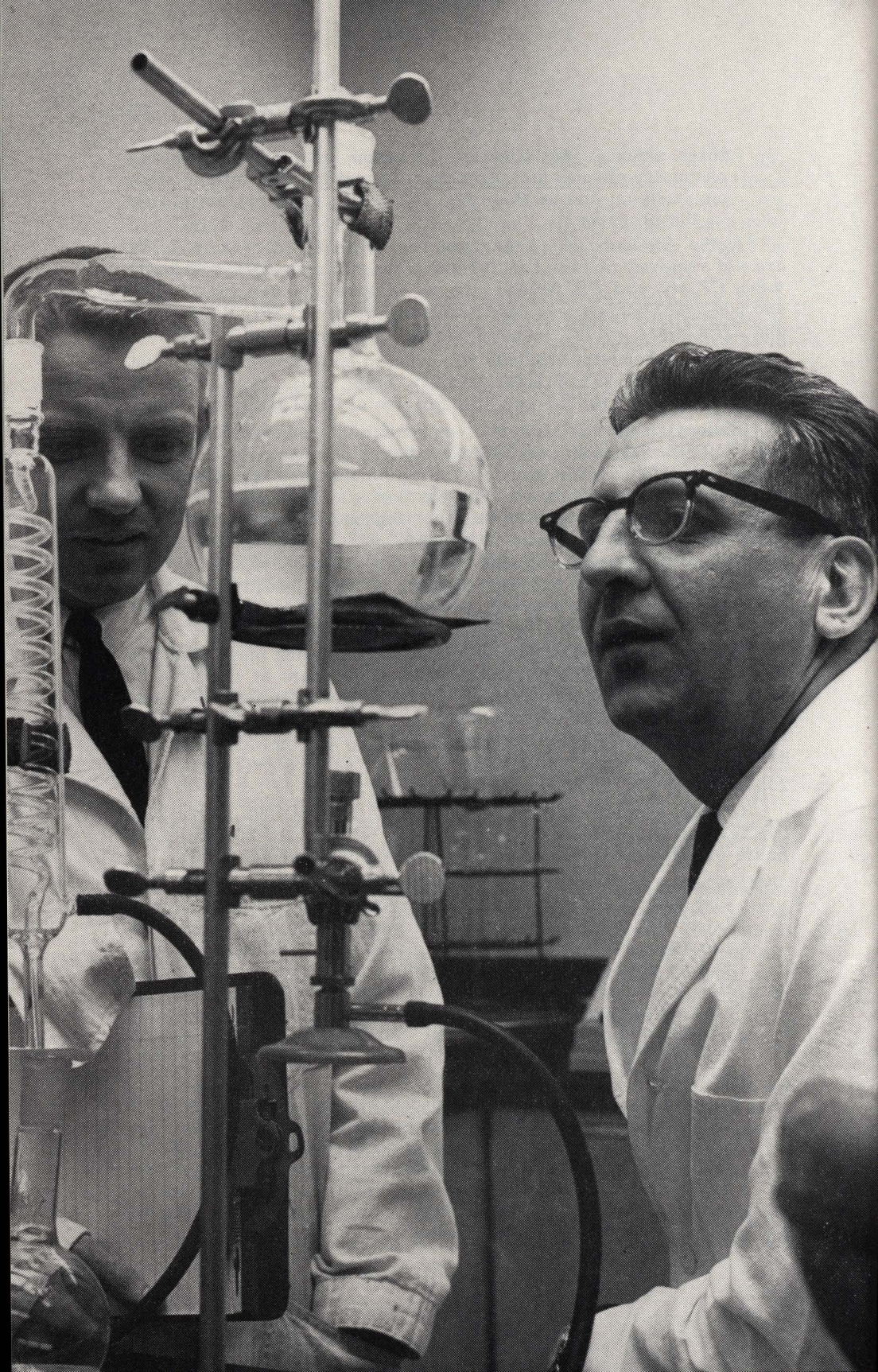
Chemistry-physics students emphasizing physics must take PH 205-207, 206-208, 301, 341, 342 and 401, eight hours of electives in physics and CH 211, 212, 321 and four hours of electives in chemistry, for a total of 41 credit hours.

Physics-mathematics students must take PH 221-223, 222-224, 301, 341, 342 and 401, seven hours of electives in physics, MA 101, 203, 204 and 205, for a total of 41 credit hours.

General science students must take BZ 201, BO 202 or ZO 202, CH 211 and 212, PH 205-207 and 206-208, GY 201, AS 201 and four hours of electives in science, for a total of 36 trimester hours.

7. **SOCIAL SCIENCE.** It is recommended that all prospective social studies teachers meet the minimum requirements of the broad major outlined below. The student who desires to meet the major requirements of a single discipline, such as history, can do so through a careful planning of electives. Specialization in social science requires 47 hours, and students in the area should have these courses: HI 111-112, 121-122 and 338; GE 301 and 103 or 251; PS 201 and 203; EC 201 and 101 or 202; SO 221, 231 or 255; SS 361; and nine hours of electives in upper division social science.

8. **INDIVIDUAL MAJORS.** With special permission of the Dean of the College of Education, individual teaching majors may be planned in one or more teaching subjects to satisfy the specialization requirements. When this permission has been granted, the student must meet the subject-area requirements of the major in the College of Liberal Arts in addition to the Florida Teacher Certification requirements.



COLLEGE OF LIBERAL ARTS

INTRODUCTION

The College of Liberal Arts, as one of the four colleges of the University, continues the general and liberal education begun in the College of Basic Studies. Here the student may explore further his vocational interests and develop a breadth of knowledge and precision of intellect so necessary for responsible leadership in our society.

More specifically, the college seeks:

1. To help students to continue the exploration of new subjects affording fresh ideas and talents enriching to life.
2. To enable students to try out several subjects as a means of determining the wisest vocational choice.
3. To give sufficient development within the chosen vocational field that the student will be prepared to obtain a job upon graduation or move successfully into a graduate or professional school.
4. To collaborate with the other colleges of the University in providing liberal courses to reinforce required training in those professional schools.
5. To cultivate independent thinking, creative imagination and value commitment in order that students may become constructive leaders in their chosen activities.

ENTRANCE TO THE COLLEGE

Students may enter the Liberal Arts College after two years (at least 54 credits) in the College of Basic Studies or by transfer from another institution. The general education requirements should have been completed and the student should have at least a "C" average on all previous college work. Occasional students admitted without this "C" average will automatically be on warning status.

A student, once admitted, is expected to declare his major and will be counseled in his selection of courses by an adviser from that field. He will then plan the remainder of his college program to fulfill his educational needs and satisfy requirements for the degree. He will be enrolled in one of the divisions of the college, and the director of that division will generally supervise his progress.

Any student of the University may take courses in the Liberal Arts College even though not officially admitted. Freshmen and sophomores may wish to take liberal arts courses in addition to their basic studies program. Similarly, students in other colleges or adults in the community will elect liberal arts courses of particular interest.

GRADUATION REQUIREMENTS

The college offers one degree: Bachelor of Arts. These require-

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ments are referred to in the opening pages of this bulletin but are briefly summarized here:

1. 120 credits with at least a "C" average (2.0) in work done at the University of South Florida. At least 40 of the 120 credits must be in courses numbered above 300.
2. General education requirements of at least 36 credits fulfilled in the College of Basic Studies or elsewhere, plus the Basic Studies Senior Seminar.
3. Completion of a major in a subject or an integrated major involving several subjects. There must be at least a 2.0 average in this major. To insure breadth of experience and to refrain from undue specialization, a student may apply toward graduation a maximum of 40 credits in a subject and must earn 60 credits outside the division of his major.
4. Completion of the Graduate Record Examinations Aptitude Test.
5. A student must earn the last 30 credits in residence before receipt of a bachelor's degree at the University of South Florida.

ORGANIZATION AND SPECIAL FEATURES

The Liberal Arts College is organized into four divisions for the administration of staff and courses: Fine Arts, Language-Literature, Natural Science and Social Science.

The college, like the total University, is concerned for the broad development of students' knowledge. Thus, it offers several integrated courses and limits work in any one field. At the same time, the student must learn to work independently. The college emphasizes also individual projects in many courses, laboratories, field studies and the opportunity to earn credit through independent study and examination.

It is important that the student develop basic skills for research and creative scholarship; hence the provision of senior seminars and special courses on research methodology. These skills are important for the critical appraisal of scholarly work even though the student might not go on to graduate study. There is opportunity from time to time for students to collaborate with their professors on research projects and in rendering essential intellectual services to the community.

CURRICULA AND PROGRAMS

DIVISION OF FINE ARTS

The Division of Fine Arts serves a three-fold purpose of providing courses 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 training for those highly talented in the fine arts, (2) to offer guid-

ance and training for those preparing for teaching and (3) to provide curricular studies and extra-curricular activities for general University students.

The division offers broad courses in art, music and theatre arts with specific curricular offerings in (1) visual arts, (2) commercial art, (3) dramatic arts and (4) music arts. Special programs designed for the preparation of public school teachers include (1) art, grades 1-12, (2) general vocal music, grades 1-12 and (3) general-instrumental, grades 1-12. Allied courses are listed under the Humanities major.

Placement-proficiency examinations are required of all new registrants in music courses. Scheduling of these examinations is made through the Office of the Division of Fine Arts.

VISUAL ARTS

The Visual Arts curriculum is designed for students interested in continuing their art education in graduate school with the objective of college teaching in art history or in one of the studio arts.

The Visual Arts curriculum for painting requires successful completion of AR 101, 102, 201, 202, 311, 321, 331, 341 and 411; FA 301, 302 and 491, for a total of 34 trimester hours. A minimum of 40 hours in art and a minimum of 24 hours outside the Division of Fine Arts must be part of the total program. The student may elect to emphasize painting, sculpture or art history by selecting the appropriate art area sequence of courses.

The Art Education curriculum is listed under the College of Education.

MUSIC ARTS

The Music Arts curriculum is designed for those gifted in performance on some instrument or in voice, whose ultimate goal may be that of artist or studio teacher. Requirements for a major in piano are listed here; those seeking majors in other instruments or voice should substitute the appropriately numbered music courses. Piano students: MU 101, 102, 201, 202, 221 (eight credits), 301, 302, 421 (eight credits), 471 and three credits in ensemble; piano proficiency examination; FA 301, 302 and 491, for a total of 49 trimester hours. A minimum of 24 hours outside the Division of Fine Arts must be part of the total program.

The Music Education curricula are listed under the College of Education.

THEATRE ARTS

Students desiring to concentrate in performance or technical theatre must take TA 101, 111, 221, 331, 333, 335, 337, 401, FA 301, 302, 491 and at least four of the following, depending upon their choice of major concentration: TA 311, 312, 313, 321, 322, 323 and 351, for a total of 45 trimester hours. A minimum of 24 hours outside the Division of Fine Arts must be part of the total program.

Combined majors are offered in two areas. Students wishing to concentrate in Theatre Arts-Speech must take TA 101, 111, 221, 315 and two courses from among TA 331, 333, 335 and 337; SH 201, 203, 221, 321, 311 or 315, and 491. Students wishing to concentrate in

Theatre Arts-Broadcasting must take the same Theatre Arts courses as Theatre Arts-Speech majors, plus SH 201, 203, 221, 241, 347 and 441.

DIVISION OF LANGUAGES AND LITERATURE

FOREIGN LANGUAGE

Language studies in the College of Liberal Arts fall into three general groupings: (1) linguistics, providing instruction in language structure and development; (2) classical languages and literature, providing instruction in Latin; and (3) modern foreign languages and literature, providing instruction in French, German, Spanish, Italian and Russian.

These programs are designed to meet the needs of students who desire basic competency in a language and an expanded understanding of foreign culture and literature in the original. 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 employment.

Those planning to teach a foreign language in elementary or secondary school must take an education course dealing with methods of teaching a language.

Major Requirements

Major programs are offered in French, German, Spanish, Italian, Latin and Russian, and in combinations of any two of these.

Modern language majors are required to take at least two of the three literature survey courses numbered 305, 306 and 307 in their chosen language. These courses must be taken prior to or concurrently with any advanced literature courses which deal with the same period. One of the three courses may be omitted by passing an examination on the material covered in the course. This exam must be passed before the student takes any advanced course stemming from the omitted course.

Modern language majors must complete at least 30 trimester hours in the chosen language beyond the Functional Language courses. Among these 30 hours must be the following:

For French majors: FR 301, 303, 305-306-307 (at least two of these), 421-422, 441-442 and 491.

For German majors: GN 301-303, 305-306, 413, 491 and 492.

For Spanish majors: SP 301, 303, 305-306-307 (at least two of these), 423-424, 441-442 and 491. Native speakers should omit 303 and take two electives from the following: SP 313-314, 401, 425, 445 and 451. Non-native speakers should elect at least one of these.

For Italian majors: IT 301, 303, 305-306-307 (at least two of these), 411, 412 and 491.

For Russian majors: RN 301, 303, 305-306-307 (at least two of these), 451 and 452.

Latin majors must take these 30 trimester hours: LA 221-222, 311, 313, 411, 413 and 481; LI 301 and 303; and HI 321. In addition, the student with the help of his adviser should select 12 further

credit hours, among which EN 335-336 and AR 301 or HU 323-324 are particularly recommended.

Combined majors are offered in any two modern languages or in Latin and any modern language. For a major in two modern languages, a student must take the courses numbered 301, 303 and 305-306-307 in each of two languages, and an additional nine hours in one of the languages. For a major in Latin and a modern language, a student must take LA 311, 313, 411, 413 and 481; LI 301 and 303; and courses numbered 301, 305-306-307 in the modern language, plus three additional hours in the modern language.

Minor Requirements

The minimum requirements for a minor in a foreign language are courses in the language numbered 301, 303, 305-306-307, plus three more hours to be chosen with an adviser. In German three additional hours must be chosen. Native speakers must substitute a literature course for 303.

ENGLISH

Major Requirements

A major in English requires a sequence of courses within four periods of English and American literature. The Student takes four general courses, each intended to mirror, through major literary works, the economic, social, political, scientific and religious thought of one period. Normally, the student will then choose a course numbered in the 300 group to obtain a more detailed and more critical view of writing within a particular period. He next will pursue his chosen subject further through the junior and senior colloquiums, adding a course dealing very specifically with one or more of the great figures of the period. Thus, the courses build upon one another.

All English majors, except those interested in a broader field than the early and middle English periods, must take EN 201 or HU 323-324. All majors must also take EN 203, 205, 207, 331, 391, 411, 491 and one course in writing above the freshman level. All told, at least 30 trimester hours of instruction in literature and composition above the freshman level must be completed. Recommended electives for English majors include HI 111-112 and 231-232, LI 301-303, EN 417, advanced courses in Speech and reasonable mastery of a foreign language.

PHILOSOPHY

The philosophy program includes five areas of study: logic and scientific method, history of philosophy, theory of knowledge, theory of reality and theory of values. Majors in philosophy must complete at least 30 trimester hours in the program, including PY 203 and at least six credits at the 400 level.

SPEECH

The Speech curriculum provides courses for all students interested in increasing their understanding and skills of oral communication, and offers major programs in general speech, rhetoric and public

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address, and broadcasting. In addition, two combination major programs are available: an English-Speech program, designed primarily, though not exclusively, for those preparing to teach in the secondary schools; and a Speech-Theatre Arts program offered jointly by the Language-Literature and Fine Arts divisions.

A major in Speech requires a minimum of 27 credits; the combination English-Speech program requires 48 credits in English and Speech, and three credits in Theatre Arts; and the joint Speech-Theatre Arts program requires 36 credits, divided equally between Speech and Theatre Arts courses.

Speech 201 and 203 are required of all majors; Speech 491 is required of Speech and Speech-Theatre Arts majors, and of English-Speech majors interested primarily in Speech.

General Speech sequence: SH 201, 203, 221, 363, 491 and 12 credits of Speech electives.

Rhetoric and Public Address sequence: SH 201, 203, 363, 465, 491 and 12 credits of Speech electives, nine of which must be in rhetoric and public address or discussion.

Broadcasting sequence: SH 201, 203, 221, 241, 491 and 12 credits of Speech electives, nine of which must be in broadcasting.

English-Speech sequence: SH 201, 203, 221, either 361 or 365, and six credits of Speech electives; EN 201, 203, 205, 207, 221, 411, 417 and six credits of English electives; either SH 491 or EN 491; and TA 101.

Speech-Theatre Arts sequence: SH 201, 203, 221, 321, 491 and one 300 or 400 level elective in Speech; TA 101, 111, 221, 315 and any two courses chosen from 331, 333, 335, 337.

DIVISION OF NATURAL SCIENCES

The Natural Sciences Division offers courses in astronomy, botany, chemistry, engineering, geology, mathematics, physics and zoology. They are designed for students planning on scientific or technical careers or with considerable interest in science. Students seeking a general understanding of science but not technical competence will normally wish to take the Basic College courses in biological science, physical science and functional mathematics.

Candidates for a degree in science as preparation for employment or admission to graduate school will typically major in one of these sciences. Those seeking to transfer to another university to complete a course in engineering, agriculture, home economics, pharmacy or one of the medical professions may begin their science work here and then transfer to another institution.

Requirements for Admission to Science Programs

Before enrolling in a science sequence, the student must take an examination of his proficiency in mathematics and science. Typically the level of understanding expected is that achieved in the Basic College courses in functional mathematics and the physical or biological

sciences, or a corresponding training of two or three years in high school in the relevant areas.

It is recommended also that the science major shall take a course in the reading of scientific materials in German, Russian or French or have a reading proficiency in one of these.

ASTRONOMY

A major in astronomy will normally include a minimum of 24 trimester hours in the discipline, including AS 201-202, eight hours of astronomy electives and at least two of the following: AS 311, 321, 331 and 341. In addition, the program must include MA 203, 204, 205 and 301, PH 221-223 and PH 222-224. The student will choose, in consultation with his astronomy adviser, additional courses from astronomy, physics, chemistry and mathematics that support his major interest in the field of astronomy. Selection of a foreign language, preferably French, German or Russian, is also strongly recommended.

Note: Students who have previously taken CP 201, PH 211-213 and PH 212-214 are not required to take PH 221-223 and 222-224.

BOTANY

This program is designed to provide training for those interested in scientific or technical careers in the plant sciences. Required courses are BO 202, 312, 321, 491 and BZ 201 and 331. Nine elective credits must be selected from BO 311, 318, 346, 481 and BZ 345, 351. Students must take an additional 30 credits in the Natural Science Division including ZO 202, CH 211-212 and 331-332 (CH 231 with consent of botany adviser may be taken in lieu of 331-332). Mathematics background must include CB 109-110 or equivalent with additional courses if possible. Selection of a foreign language, preferably French, German or Russian, is also strongly recommended.

Students are advised to enroll in BZ 201 and CH 211 during the freshman year and to seek completion of basic studies science requirements by waiver or credit by examination. Prospective majors must seek early curriculum counseling from the botany program chairman.

Note: Students who have previously taken CP 201 and CH 202 are not required to take CH 211-212.

CHEMISTRY

A chemistry major must include the following chemistry courses: CH 211, 212, 321, 331-332, 341-342, 411 and a chemistry elective at the 400 level. Other required courses include MA 203-204-205 and either PH 221-223, 222-224 or PH 205-207, 206-208. The required courses should be strengthened by appropriate mathematics and science electives. Selection of a foreign language, preferably German, French or Russian is also strongly recommended.

Note: Students who have previously taken CP 201 and CH 202 are not required to take CH 211-212. Students who have previously taken CP 201 and PH 202-204 are not required to take PH 205-207 and 206-208. Students who have previously taken CP 201, PH 211-213 and PH 212-214 are not required to take PH 221-223 and 222-224.

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GEOLOGY

A major in geology will normally consist of a minimum of 32 hours in geology including GY 201, 202, 301, 311, 331, 333 and 10 elective credits in geology. In addition, the program must include CH 211-212; PH 205-207, 206-208; and MA 101. The student will choose, in consultation with his geology adviser, such additional courses from astronomy, biology, botany, chemistry, mathematics and physics that support his major interest within the field of geology. Selection of a foreign language, preferably French, German or Russian is also strongly recommended.

Note: Students who have previously taken CP 201 and CH 202 are not required to take CH 211-212. Students who have previously taken CP 201 and PH 202-204 are not required to take PH 205-207 and 206-208.

MATHEMATICS

Majors must have 32 credit hours in mathematics including MA 101, 203, 205, 309 and 321. Electives should be chosen as to the student's preference to do technical work in industry, to prepare for graduate study in mathematics, or to teach in secondary school. Recommendations appropriate to these three vocations are respectively:

Technical work in industry	MA 301, 305, 306, 345, 347, 401, 421 and 422;
Preparation for graduate study	MA 305, 306, 413, 414, 423, 424, 431 and 432.
Teaching in secondary school	MA 145, 323, 345, 423 and 431.

PHYSICS

Majors must have one year of general physics, consisting of either PH 211, 212, 213 and 214 or PH 202, 204 and 215; PH 307, 311, 341 and 411, plus one advanced laboratory. Additional physics courses sufficient to total 28 credits are required. The student will also take MA 203, 204, 205, 301; CP 201 and CH 202. PH 205-207 and 206-208 may be taken as alternatives to CP 201 and PH 202-204; PH 221-223 and 222-224 may be taken as alternatives to CP 201, PH 211-213 and 212-214.

Note: Students who have previously taken CP 201 and CH 202 are not required to take CH 211-212. Students who have previously taken CP 201 and PH 202-204 are not required to take PH 205-207 and 206-208. Students who have previously taken CP 201, PH 211-213 and PH 212-214 are not required to take PH 221-223 and 222-224.

Students registering for a physics course which has an associated laboratory must also register for the laboratory or obtain written permission from the dean of their college to register for the course only. A student may present for graduation no more than 10 credits in physics courses numbered below 300. Selection of a foreign language, preferably French, German or Russian is also strongly recommended.

ZOOLOGY

This program is designed to provide a broad but thorough training for those interested in scientific or technical careers in zoology and related fields. Required courses are: ZO 202, 311, 312, 321, 346 and 491, BZ 201, 331 and 345 for a total of 30 hours. Students must take an additional 30 credits in the Natural Science Division, including BO 202, CH 211, 212 and 331-332. (CH 231 with consent of zoology adviser may be taken in lieu of 331-332). Mathematics background must include CB 109-110 or equivalent with additional courses if possible. Selection of a foreign language, preferably German, French or Russian is also strongly recommended.

Students are advised to enroll in BZ 201 and CH 211 during the freshman year and to seek completion of basic studies science requirement by waiver or credit by examination. Prospective majors should seek early curriculum counseling from the zoology program chairman.

Note: Students who have previously taken CP 201 and CH 202 are not required to take CH 211-212.

ENGINEERING

The University of South Florida and the University of Florida offer joint programs in a number of fields of engineering under the 3-2 Plan.

Under this plan, a student attends the University of South Florida for six or seven trimesters and the University of Florida four or five trimesters. Upon satisfactory completion of the program, the student is eligible to receive the bachelor's degree from the College of Liberal Arts at the University of South Florida and the appropriate bachelor's degree from the College of Engineering at the University of Florida.

Undergraduate programs are available in aerospace, agriculture, chemical, civil, electrical, industrial, mechanical and metallurgical engineering, and in engineering science.

While there are some variations in the several programs, they are identical for the first two years. The variations occur in the third year to meet special requirements at the University of Florida.

The following items should be carefully noted by each student:

1. The Basic College requirements of six courses are to be met. Normally a student well prepared from high school may waive or be exempted by examination, or by independent study, from two of these courses: CB 105-106, 107-108 and 109-110.
2. The programs outlined do not permit variations other than those possible through elective hours.
3. Students in all areas of engineering may enroll in the Work-Study Cooperative Program. Even though the student transfers to the College of Engineering at the University of Florida at some point in his program, he will keep his same team assignment with his employer.
4. It is essential that courses in non-technical fields in liberal arts

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and in basic studies be taken so that a student's program contains a minimum of 60 hours outside the Division of Natural Sciences, including any waived hours in the Basic Studies College.

5. Normally the student would receive both degrees at the completion of the full program. However, a student may receive the A.B. degree from the University of South Florida as soon as he completes the requirements for that degree by transferring the appropriate credit from his work at the University of Florida to the University of South Florida.
6. At least 24 hours of 300 number courses or higher should be transferred from the University of Florida to satisfy major requirements for engineering in the Natural Sciences Division.

The recommended program for the first two years of engineering study includes: EG 141, 142, 261, 262, MA 101, 203, 204, 205, CH 211-212 and PH 221-223 and 222-224.

PRE-MEDICINE

Students planning to go to medical school should contact a pre-medical adviser upon entering the University. The pre-medical curriculum is designed to fulfill course requirements for medical school and, with a separately designated major, to qualify students for the bachelor's degree at the University of South Florida. Pre-medical students should be acquainted with the specific entrance requirements of the medical school to be attended so that unusual prerequisites may be completed.

Good academic performance and strong recommendations favor admission into medical schools. Accordingly, quality of college work and liaison with the pre-medical adviser are of great importance. The general curriculum which pre-medical students should complete includes English, mathematics, zoology, chemistry, physics and courses in the humanities and related areas.

DIVISIONAL MAJOR

A divisional major is designed to serve students desiring a broad background, such as science teachers and pre-professional students. It is not necessarily an adequate preparation for entrance into a graduate program in one of the natural sciences. Minimum requirements for the major are listed below, but prospective teachers should also consult the College of Education section of this catalog for information about certification requirements in the science field. Major requirements in the Division of Natural Sciences are 24 trimester hours in the discipline of concentration, six hours in a second discipline, six hours in a third discipline and four hours of electives.

DIVISION OF THE SOCIAL SCIENCES

The social sciences are concerned with man, his development, problems and institutions. They help the student to understand the world around him and to become a more intelligent citizen. In addition,

the social sciences can prepare a student for employment in business, government and social service professions, either upon graduation or upon completion of additional graduate study.

For convenience, the social sciences are divided into a number of disciplines or fields, each approaching the subject in a particular way. The major requirements of each discipline are indicated below.

Since most modern social problems are complex, requiring analysis from several vantage points, a number of integrated courses are provided to afford the student a rounded view of the problem and alternative solutions. These social science division courses are offered primarily for juniors and seniors.

Major Requirements

Students may major in the total Division of Social Science or in any one of the several fields. The divisional major includes at least 45 credits in the division and a minimum of 15 credits in a single program, with considerable distribution among the other programs in the division. Most of the work must be chosen from 300-400 level courses with at least 9 credits in social science integrated courses.

ANTHROPOLOGY

Majors must have at least 27 trimester hours in the discipline, including AN 201 and 491, with the remaining 21 hours chosen from anthropology and anthropogeography courses.

ECONOMICS

The economics program is offered in conjunction with the College of Business Administration. Requirements are EC 201-202, 301, 401, AC 201-202, 301-302 and MA 345. In addition, the student must take three of the following courses, including at least one of the first three: EC 401, 405, 411, 311, 313, 323, 331 and 411.

GEOGRAPHY

Majors must have at least 28 trimesters hours, including GE 103, 251, 461 and 491. The remaining 12 hours should be chosen from geography, anthropogeography, BZ 345, GY 211, GY 333 and SO 363.

HISTORY

A minimum of 30 credits is required for a major. From Part I, requirements are HI 111-112 and either HI 121-122 or 231-232; from Part II, at least 12 credits, including HI 321 or 323; from Part III, HI 485 and 491, taken during the senior year. Two years of a foreign language, study in the history of western philosophy and GE 251 are recommended. Credit cannot be received for both HI 122 and 232, or for both HI 121 and 321.

POLITICAL SCIENCE

Majors must have at least 27 trimester hours, including PS 101, 201, 203, 323 and 491.

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PSYCHOLOGY

Majors must complete at least 30 credits in the field, including PC 101, 211, 212, 231, 301, 331, 491, two other psychology courses and SS 201. Functional Mathematics and Biological Science are recommended in the College of Basic Studies. Otherwise, students majoring in psychology are encouraged to complete a varied undergraduate program.

SOCIOLOGY

Majors must have at least 27 credits in the field, including SO 201, 361, 491 and SS 201.

PRE-LAW

The University of South Florida offers a program of pre-legal study designed to meet the needs of undergraduate students who are planning to pursue a career in the law. A broad liberal education of high quality is the foremost goal of this program. The American Association of Law Schools suggests that each student preparing for law school should acquire the following basic skills: (1) effective expression, both written and oral, in the English language; (2) critical understanding of the political, economic and social institutions of society; (3) practice in the use of creative and analytical reasoning in a variety of problem solving situations.

All students wishing to major in pre-legal studies should consult the Coordinator of Student Advising for assignment to a pre-law adviser.

INTERDISCIPLINARY AND INTEGRATED PROGRAMS

HUMANITIES

The Humanities program is an interdivisional offering in the College of Liberal Arts. Its courses integrate materials from the divisions of Fine Arts and Language-Literature. Humanities courses at the 300 level are open for election to students in any major program who have completed CB 203-204.

Requirements for a major in Humanities are 24 credits of humanities courses at the 300 level, HU 491 and 493 and three credits in a creative or performing art. Majors will normally elect a strong concentration in one area of Fine Arts or Language-Literature. Electives in the divisions of Social Science and Natural Science should complement or extend the study of relationships emphasized in the Humanities.

INTERNATIONAL AND AREA STUDIES

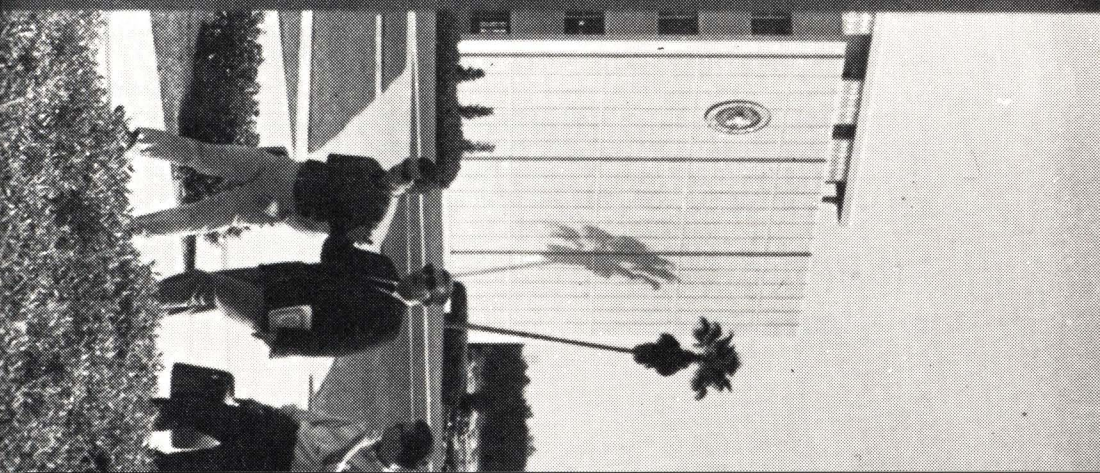
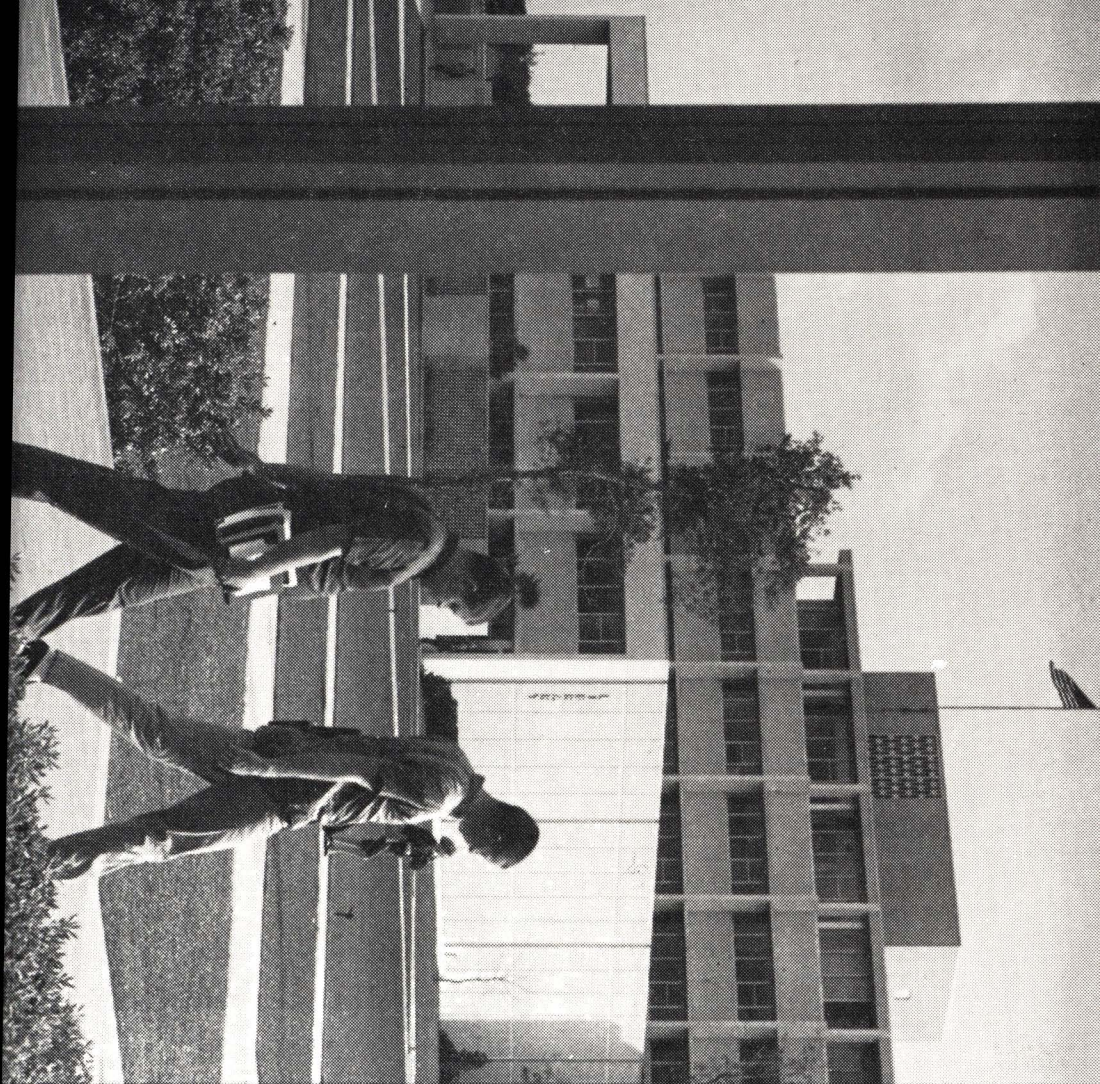
Programs are offered for degrees in International Studies, Latin American Studies and Afro-Asian Studies. Majors in all three programs must have the following courses: AN 201, EC 201-202, GE 251, HI 311, PS 101, SS 449 and two of these: HI 351, PS 461, SS 311 and 361. Twelve hours of a language above the 100 level also is re-

quired; this requirement may be met by satisfactory completion of a proficiency examination.

International Studies majors must also take PS 331 and 333; two courses from among SS 341, 343, 345 and 347; and one of the following: AG 301, 303 and 305. These SS and AG courses must be selected to avoid duplication. Language credit may be in any modern foreign language.

Latin-American Studies majors must satisfy the language requirement in Spanish and must also take AG 301, SS 341, HI 351, a 300-level humanities course and one of the following: AN 481, GE 481, HI 381, PS 481 or SP 381.

Afro-Asian Studies majors must satisfy the language requirement in either French or Russian and must also take AG 303, HI 371, HU 331-332 or AR 403, and two of the following: SS 343, 345 and 347.



COURSE DESCRIPTIONS

All courses offered for credit by the University of South Florida are listed here in alphabetical order according to their prefix, as listed below. The course descriptions include the prefix, the course number and the number of credits given for each course.

The University does not commit itself to offer all of these courses in any given trimester or academic year. Students should consult the class schedule each trimester to see precisely what courses are being offered before they prepare their class schedules.

AC — ACCOUNTING	HU — HUMANITIES
AG — ANTHROPOGEOGRAPHY	IT — ITALIAN
AN — ANTHROPOLOGY	LA — LATIN
AR — ART	LI — LINGUISTICS
AS — ASTRONOMY	MA — MATHEMATICS
BO -- BOTANY	MK — MARKETING
BZ — BOTANY-ZOOLOGY	MU — MUSIC
CB — BASIC STUDIES	OA — OFFICE ADMINISTRATION
CH — CHEMISTRY	PA — PRODUCTION AND QUAN- TITATIVE ANALYSIS
CP — CHEMISTRY-PHYSICS	PC — PSYCHOLOGY
EC — ECONOMICS	PE — PHYSICAL EDUCATION
ED — EDUCATION	PH — PHYSICS
EG — ENGINEERING	PS — POLITICAL SCIENCE
EN — ENGLISH	PY — PHILOSOPHY
EP — PROFESSIONAL PHYSICAL EDUCATION	RL — ROMANCE LANGUAGES
FA — FINE ARTS	RN — RUSSIAN
FI — FINANCE	SH — SPEECH
FR — FRENCH	SO — SOCIOLOGY
GA — PERSONNEL AND GENERAL ADMINISTRATION	SP — SPANISH
GE — GEOGRAPHY	SS — SOCIAL SCIENCES
GN — GERMAN	TA — THEATRE ARTS
GY — GEOLOGY	WS — WORK-STUDY
HI — HISTORY	ZO — ZOOLOGY

ACCOUNTING

PREFIX: AC

Instructional staff: W. Danco, W. Deyo, W. R. Garrett, L. Jurgensen, G. McClung, R. Neel.

AC 201. ELEMENTARY ACCOUNTING (3)

Basic theory and procedures of recording and reporting financial activities.

AC 202. ELEMENTARY ACCOUNTING (3)

Prerequisite: AC 201. Accounting theory and practices for various equity structures. Special problems of payrolls, taxes, departments and branches.

AC 301. INTERMEDIATE ACCOUNTING (3)

Prerequisite: AC 202. Advanced theory and procedures of recording and reporting activities affecting working capital and non-current assets.

AC 302. INTERMEDIATE ACCOUNTING (3)

Continuation of AC 301 with concentrated study of activities in fixed assets, long-term debt and corporate capital. Intensive treatment of analytical processes.

AC 305. MANAGERIAL ACCOUNTING (3)

Prerequisite: AC 202. The utilization of accounting information by management in costs, budgeting, tax reporting, research, auditing and other analyses.

AC 323. GOVERNMENTAL AND INSTITUTIONAL ACCOUNTING (3)

Prerequisite: AC 202. Procedures for fund accounting. Preparation and administration of budgets, compiling and using significant reports.

AC 401. ADVANCED ACCOUNTING (3)

Prerequisite: AC 302. Special problems of accounting in partnerships, sales procedures and fiduciaries.

AC 402. ADVANCED ACCOUNTING (3)

Prerequisite: AC 302. Continued study of special problems, including consolidations, foreign branches and subsidiaries, governmental units and actuarial science.

AC 411. FEDERAL TAXES (3)

Prerequisite: AC 202. Detailed theory and practice in federal income, estate and gift taxation with emphasis on income taxation of individuals. Code and regulations.

AC 412. FEDERAL TAXES (3)

Prerequisite: AC 411. Theory and practice of taxation of partnerships and corporations. The revenue system, tax savings and problem research.

AC 421. COST ACCOUNTING (3)

Prerequisite: AC 202. Principles and practices of process, job-lot and standard cost accounting and their relation to budgetary control.

AC 423. AUDITING (3)

Prerequisite: AC 302. Principles and procedures of internal and public auditing. The ethics, responsibilities, standards and reports of professional auditing.

AC 431. CONTROLLERSHIP (3)

Prerequisite: Consent of instructor. The theory and practice of the functions, techniques and problems of the financial officers of business organizations.

AC 433. C.P.A. REVIEW (3)

Prerequisite: Consent of instructor. Offered evening only. A coaching course for students of professional accountancy with comprehensive study of C.P.A. examination problems.

ANTHROPOGEOGRAPHY**PREFIX: AG**

Instructional staff: J. Adams, R. Fuson, S. Messing.

AG 301. ANTHROPOGEOGRAPHY: MIDDLE AND SOUTH AMERICA (3)

The geography and ethnology of the native cultures of Middle and South America, with emphasis on the high civilizations (Maya, Inca and Aztec) and present Indian populations.

AG 303. ANTHROPOGEOGRAPHY: AFRO-ASIA (3)

The geography and ethnology of the Afro-Asian tribal societies. Emphasis is placed on present neolithic cultures.

AG 305. ANTHROPOGEOGRAPHY: OCEANIA (3)

The geography and ethnology of the native cultures of the Pacific.

AG 307. ANTHROPOGEOGRAPHY: THE INDIANS OF NORTH AMERICA (3)

The geography and ethnology of the North American Indians.

ANTHROPOLOGY

PREFIX: AN

Instructional staff: J. Adams, chairman; S. Messing.

AN 201. INTRODUCTION TO ANTHROPOLOGY (3)

The study of man as a biological, social and cultural being.

AN 301. PERSONALITY AND CULTURE (3)

A study of the effect of cultural institutions on the formation of personality and of the ways in which such personality is, in turn, expressed in cultural institutions.

AN 321. ARCHAEOLOGY (3)

The methods and aims of archaeology and a survey of world pre-history.

AN 331. ETHNOLOGY (3)

The methods and aims of ethnology, and a survey of the histories and distribution of the folk cultures of the world.

AN 361. THE LITTLE COMMUNITY (3)

A general consideration of the little community in various societies, emphasizing the several conceptual frameworks through which it may be viewed.

AN 481. INDIVIDUAL RESEARCH (3)

Prerequisite: Consent of instructor. Individual instruction covering field techniques in obtaining relevant data from informants. Topics will vary to fit student needs.

AN 491. SENIOR SEMINAR IN CONTEMPORARY ANTHROPOLOGY (3)

Prerequisite: Consent of instructor. Reading and analysis of major contributions to anthropological thought viewed in historical perspective. Application of anthropology to problems in underdeveloped areas.

ART

PREFIX: AR

Instructional staff: H. Covington, chairman; W. Christian, E. Cox, W. Houk.

AR 101. VISUAL FUNDAMENTALS (3)

Introduction to problems in drawing techniques and media.

AR 102. VISUAL FUNDAMENTALS (3)

Prerequisite: AR 101 or consent of instructor. Introduction to problems primarily in two-dimensional design.

AR 201. VISUAL FUNDAMENTALS (2)

Prerequisite: AR 101 and AR 102. Further exploration of drawing techniques and media.

AR 202. VISUAL FUNDAMENTALS (2)

Prerequisite: AR 201 or consent of instructor. Further exploration of two and three-dimensional design.

AR 271. LETTERING (3)

Basic problems in the design and execution of lettering in the fundamental Roman and sans-serif letter forms.

AR 301. ANCIENT AND CLASSICAL ART (3)

The art of Egypt, Mesopotamian Valley, Greece and Rome.

AR 303. MEDIEVAL AND RENAISSANCE ART (3)

Early Christian, Romanesque and Gothic art in Europe, Byzantine and Italian, Northern Renaissance and Baroque.

The following four courses are introductions to specialized problems in the various media. Special stress placed upon techniques and materials.

AR 311. PAINTING TECHNIQUES (3)

Prerequisite: AR 202 or consent of instructor.

AR 321. SCULPTURE TECHNIQUES (3)

Prerequisite: AR 202 or consent of instructor.

AR 331. CERAMIC TECHNIQUES (3)

Prerequisite: AR 202 or consent of instructor.

AR 341. GRAPHIC TECHNIQUES (3)

Prerequisite: AR 202 or consent of instructor.

AR 373. JEWELRY AND CRAFTS (3)

Introductory course in the design and execution of jewelry and craft objects.

AR 401. 19TH AND 20TH CENTURY ART (3)

European art from neo-classicism to contemporary.

AR 403. ORIENTAL ART (3)

The art of India, China and Japan.

AR 411. PAINTING (3)

Prerequisite: AR 311. May be repeated. Advanced problems in the various painting techniques. Emphasis on individual creative expression.

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AR 421. SCULPTURE (3)

Prerequisite: AR 321. May be repeated. Advanced problems in the various techniques of sculpture. Emphasis on individual creative expression.

AR 481. DIRECTED STUDIES IN ART HISTORY (2-6)

Individual study.

ASTRONOMY

PREFIX: AS

Instructional staff: E. Reuning, chairman.

AS 201. INTRODUCTORY ASTRONOMY (4)

Aspects of the sky, the earth's motion and time-keeping, the moon, eclipses, astronomical instruments, motions and physical features of planets, comets and satellites. Lecture and lab.

AS 202. INTRODUCTORY ASTRONOMY (4)

Prerequisite: AS 201. The stars, stellar atmospheres and interiors, interstellar matter, the local and exterior galaxies, cosmology. Lecture and lab.

AS 311. INTRODUCTION TO ASTROPHYSICS (4)

Prerequisites: AS 202, MA 204, PH 211-213 or PH 221-223.

Corequisite: MA 205. Laws of radiation, spectrum formation, stellar atmospheres and interiors, radiative transfer, stellar models and evolution.

AS 312. MATHEMATICAL ASTRONOMY (4)

Prerequisites: AS 202, MA 204, PH 211-213 or PH 221-223.

Corequisite: MA 205. Spherical trigonometry; astronomical coordinate systems; refraction, aberration, precession; derivation of Kepler's laws.

AS 331. PRACTICAL ASTRONOMY AND ASTRONOMICAL INSTRUMENTS (4)

Prerequisites: AS 202, MA 204, PH 211-213 or PH 221-223.

Corequisite: MA 205. Elementary celestial navigation; time, longitude and latitude determination; principles of geodesy; astronomical photography. Lecture and lab.

AS 341. GALACTIC AND EXTRAGALACTIC STRUCTURE (4)

Prerequisites: AS 202, MA 205, PH 211-213 or PH 221-223.

Corequisite: MA 301. Stellar populations; clusters; distribution and composition of interstellar matter; nebulae; scattering and absorption.

AS 481. SENIOR RESEARCH (1 TO 3)

Prerequisite: senior or advanced junior standing and instructor's con-

sent. Participation in professional research with a view to publication of results.

AS 483. SELECTED TOPICS IN ASTRONOMY (1 TO 3)

Prerequisite: senior or advanced junior standing and instructor's consent. Intensive coverage of special topics to suit needs of advanced students.

AS 491. ASTRONOMY SEMINAR (1)

Prerequisite: senior or advanced junior standing and consent of instructor. Can be repeated once.

BOTANY

PREFIX: BO

Instructional staff: R. Long, chairman; O. Lakela, E. Pickering, J. Ray.

Integrated courses in botany-zoology listed under BZ.

BO 202. PLANT KINGDOM (4)

Prerequisite: BZ 201. The plant divisions, their anatomy, morphology, physiology and interrelationships, with emphasis upon evolutionary development. Lecture and lab.

BO 311. PLANT MORPHOLOGY (4)

Prerequisite: BO 202. Comparative morphology, development, reproduction and phylogeny of the plant groups. Field and laboratory examinations of selected forms. Lecture and lab.

BO 312. SYSTEMATIC BOTANY (4)

Prerequisite: BO 202 or consent of instructor. Identification and classification of the more interesting vascular plants of Florida; angiosperm evolution; principles of taxonomy. Conducted largely in the field.

BO 318. MYCOLOGY (3)

Prerequisite: BO 202. Taxonomy, morphology and physiology of fungi with special emphasis on plant pathogens and related microorganisms; antibiosis; industrial fermentations. Lecture and lab.

BO 321. INTRODUCTION TO PLANT PHYSIOLOGY (4)

Prerequisites: BO 202, CH 331-332 or CH 231. Fundamental activities of plants: absorption, translocation, transpiration, metabolism, growth and related phenomena. Lecture and lab.

BO 346. PLANT ECOLOGY (2)

Prerequisite: BZ 345. Field and laboratory studies of Florida plant communities in relation to climatic, physiographic, edaphic and biotic factors. Lab only.

BO 481. SENIOR RESEARCH IN BOTANY (1 TO 3)

Prerequisite: senior standing or junior standing with consent of instructor. Individual investigations with faculty supervision.

BO 483. SELECTED TOPICS IN BOTANY (1 TO 3)

Prerequisite: Consent of instructor. Each topic is a program in directed study under supervision of a faculty member.

BO 491. SEMINAR IN BOTANY (1)

Prerequisite: senior or advanced junior standing and consent of instructor. Can be repeated once.

INTERDISCIPLINARY BOTANY-ZOOLOGY**PREFIX: BZ****BZ 201. FUNDAMENTALS OF BIOLOGY (4)**

Prerequisite: Proficiency tests in mathematics and science. Emphasis of fundamental properties of plant and animal life beneath the organismic level. Lecture and lab.

BZ 316. CYTOLOGY AND MICROTECHNIQUE (3)

Prerequisite: BO 202. Structure and function of cytoplasmic and nuclear components of cells; fixation, embedding, sectioning and staining techniques; preparation of a microslide collection suitable for teaching purposes.

BZ 331. GENETICS (4)

Prerequisite: BO 202 or ZO 202. Principles of Mendelian, biochemical and evolutionary genetics. Lecture and lab.

BZ 345. PRINCIPLES OF ECOLOGY (3)

Prerequisite: BO 202. Organisms and their relationships to the environment; biogeography. Lecture and lab.

BZ 451. MICROBIOLOGY (3)

Prerequisite: Consent of instructor. Introduction to the biology of microorganisms. Structure and physiology of algae, viruses, rickettsiae, bacteria and protozoa. Emphasis on laboratory manipulation of microorganisms. Lecture and lab.

BASIC STUDIES**PREFIX: CB**

Instructional staff: **American Idea:** C. Arnade, M. Chatham, R. Cooper, P. Distasio, R. Fuson, O. Futch, D. Harkness, R. Heywood, H. Robertson, T. Stovall, R. Warner, H. Winthrop and P. Wright. **Biological Sciences:** C. Cole, F. Friedl, T. Helvey, J. Krivanek, E. Martin, A. Meyerriecks, G. Nelson, E. Pickering, J. Ray, G. Robinson and G. Woolfenden; **Functional English:** M. Adams, G. Beauchamp, J. Bentley, W. Garrett, E. Hirshberg, E. Johnston, S. Kahn, T. Mitchell, J. Moore, R. O'Hara, L. O'Hare, J. Parrish, H. Pomerantz, A. Scroggins, E. Smith, H. Stelzner and H. Wunderlich; **Func-**

tional Foreign Languages: M. Arcibusevas, R. Cherry, R. Davison, R. Ekmanis, L. Fonseca, E. McLean, C. Micarelli, R. Morgenroth, O. Russell, L. Sand and A. Sokolsky; **Human Behavior:** D. Allen, M. Austin, P. Distasio, V. Edmond, C. Engert, M. Fisher, B. Flanagan, P. Givens, M. Hardy, S. Hayward, M. Hocutt, M. Hopkins, D. Long, S. Merin, T. Mitchell and R. O'Hara; **Humanities:** J. Adams, D. Battefeld, J. Bentley, T. Hoffman, H. Juergensen, S. Kahn, H. Kiefer, E. MacKay, E. Stanton and W. Wilkes; **Functional Mathematics:** W. J. Davis, W. Ford, B. Fusaro, R. Heimer, D. Lichtenberg, L. Luckenbach, G. Michaelides, V. Morrison, E. Sellers, R. A. Smith and W. Williams; **Physical Science:** F. Agens, J. Boulware, J. Carr, R. Clapp, C. Clark, G. Forman, F. Dudley, T. Solomons and R. Whitaker.

CB 101-102. FUNCTIONAL ENGLISH (3,3)

Designed to teach students to use more effectively the skills of reading, writing, speaking and listening. Requires considerable reading of books and articles dealing with major ideas in the last half of the twentieth century.

CB 103-104. HUMAN BEHAVIOR (3,3)

Draws on information from behavioral sciences (human biology, psychology, anthropology, sociology and philosophy) to demonstrate how human beings develop and the means by which personal, social and ethical problems are dealt with.

CB 105-106. PROBLEMS IN BIOLOGICAL SCIENCE (3,3)

Attempts to show something of the methods of scientific inquiry, what a scientist is and how he operates. The use of information and principles from botany, zoology and physiology to teach students to apply critical thinking to scientific problems.

CB 107-108. PROBLEMS IN PHYSICAL SCIENCE (3,3)

Study of selected topics from astronomy, chemistry, geology, physics. Designed to provide an understanding of some basic principles and phenomena, and to develop ability to use methods of scientific inquiry in investigating problems.

CB 109-110. FUNCTIONAL MATHEMATICS (3,3)

Designed as a terminal course for general cultural purposes, as a foundation for further study of mathematics and science and as a preparatory course for prospective elementary school teachers.

CB 111-120; CB 211-220. FUNCTIONAL FOREIGN LANGUAGE (3 EACH)

FIRST YEAR (I)

CB 111-112	FRENCH
CB 113-114	GERMAN
CB 115-116	RUSSIAN
CB 117-118	SPANISH
CB 119-120	ITALIAN

SECOND YEAR (II)

CB 211-212
CB 213-214
CB 215-216
CB 217-218
CB 219-220

CB 111-120 (Functional Foreign Language I) initiate develop-

ment of language skills at the elementary level, combining basic patterns of language and grammar with an introduction to the foreign culture.

CB 211-220 (Functional Foreign Language II) continue development of language skills at the intermediate level, including grammatical framework of the language and beginning study of foreign literature in the original.

CB 201-202. THE AMERICAN IDEA (3,3)

Uses history, political science, sociology and economics to focus on major ideas characterizing American society and on our relations with other nations and international problems of today.

CB 203-204. THE HUMANITIES (3,3)

Prerequisite: CB 101-102. Analysis of works of visual arts, music, literature and philosophy. Interrelationships between arts and literatures and cultural conditions in significant periods. Laboratories for creative experience.

CB 301-302. THE UNIVERSE OF MAN (3,3)

A search for the universals of human life today: man as a social animal, the emergent world community, universal human needs and values, available instruments of science and technology and the limiting facts and forces.

CB 303-304. THE SCIENCE OF BEHAVIOR (3,3)

A comprehensive analysis and evaluation of man's behavior. Emphasis on understanding of mechanisms involved in individual and social behavior, along with consideration of social and ethical problems related to means for controlling behavior.

CB 305-306. SCIENCE AND HUMAN LIFE (3,3)

Prerequisites: CB 106, CB 108 or consent of instructor. An investigation of the nature of science and its impact on the world.

CB 307-308. HUMANITIES AND HUMANE VALUES (3,3)

See HU 307-308.

CB 401. SENIOR SEMINAR: FREEDOM AND RESPONSIBILITY (3)

Required of all seniors. Contemporary issues affecting social and personal values. Visiting lecturers, readings and discussions interrelating the behavioral, natural and social sciences and the humanities. Designed to focus the University education upon contemporary problems.

CHEMISTRY

PREFIX: CH

Instructional staff: P. Maybury, chairman; J. Binford, J. Fernandez, L. Monley, T. Solomons, R. Whitaker.

Integrated course in Chemistry-Physics listed under CP.

CH 202. GENERAL CHEMISTRY (5)

Prerequisite: CP 201. The second half of the integrated general course in chemistry-physics, including qualitative analysis. Lecture, lab.

CH 211. GENERAL CHEMISTRY (4)

Prerequisite: Two years of high school algebra and one year of chemistry. Fundamentals of chemistry. Gas laws, mass and energy relationships in chemical changes, chemical equilibrium, atomic and molecular structure. Lecture, discussion, lab.

CH 212. GENERAL CHEMISTRY (4)

Prerequisite: CH 211 or equivalent. The second half of CH 211. Lecture, discussion, lab.

CH 231. ORGANIC CHEMISTRY (4)

Prerequisite: CH 212. Fundamental organic chemistry principles. One-trimester course for non-chemistry majors. Lecture, lab.

CH 241. PHYSICAL CHEMISTRY (4)

Prerequisite: CH 212. Fundamental physical chemistry principles. One-trimester course for non-chemistry majors. Lecture, lab.

CH 321. QUANTITATIVE ANALYSIS (5)

Prerequisite: CH 212. Laboratory procedures and theoretical consideration of factors pertinent to quantitative demonstrations. Lecture, lab.

CH 331. ORGANIC CHEMISTRY (4)

Prerequisite: CH 212. Fundamental principles of organic chemistry. Lecture, discussion, lab.

CH 332. ORGANIC CHEMISTRY (4)

Prerequisite: CH 331. Second half of CH 331. Lecture, discussion, lab.

CH 341. PHYSICAL CHEMISTRY (4)

Prerequisite: CH 321 and MA 205 or consent of instructor; PH 222 or 206. Introduction to quantum theory, atomic and molecular structure, kinetic theory of gases. Lecture, lab.

CH 342. PHYSICAL CHEMISTRY (4)

Prerequisite: CH 321 and MA 205 or consent of instructor; PH 222 or 206. The states of matter, thermodynamics, solutions, colloids, kinetics. Lecture, lab.

CH 411. ADVANCED INORGANIC CHEMISTRY (3)

Prerequisite: CH 341. An advanced, theoretical treatment of inorganic compounds. Lecture.

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CH 421. INSTRUMENTAL ANALYSIS (3)

Prerequisite: CH 321. Corequisite: 342. Theory and practice of instrumental methods. Lecture, lab.

CH 433. ORGANIC QUALITATIVE ANALYSIS (3)

Prerequisite: CH 332. Identification of organic compounds by functional group reactions and physical properties. Lecture, lab.

CH 451. BIOCHEMISTRY (3)

Prerequisite: CH 332 or 231. The chemistry of biologically important substances including carbohydrates, proteins, colloids, enzymes, vitamins and metabolic intermediates.

CH 481. SENIOR RESEARCH (1 TO 3)

Prerequisite: senior standing or advanced junior standing and permission of the instructor. Limit three credits.

CH 483. SELECTED TOPICS IN CHEMISTRY (1 TO 3)

Prerequisite: CH 342. Each topic is a course in directed study under supervision of a faculty member expert in the field. Courses contemplated: organic preparations, advanced analytical chemistry, theoretical organic chemistry, organic preparations.

CH 491. CHEMISTRY SEMINAR (1)

Prerequisite: CH 342, senior or advanced junior standing and consent of instructor. May be repeated once.

INTERDISCIPLINARY CHEMISTRY-PHYSICS

PREFIX: CP

CP 201. GENERAL PHYSICS AND CHEMISTRY (4)

Prerequisite: Proficiency tests in mathematics and science. An integrated course in basic topics including mass, motion, energy, heat and the molecular, atomic and electrical nature of matter. Lecture and lab.

ECONOMICS

PREFIX: EC

Instructional staff: W. Benham, G. Brunhild, J. Kennedy, E. Miller, R. Neel and R. Pasternak.

EC 101. AMERICAN ECONOMIC HISTORY (3)

Development of the American economy, the evolution of American economic institutions and their impact on the growth and distribution of the national product.

EC 201. ECONOMIC PRINCIPLES I (3)

Economics as a social science, accounting, analytical and policy aspects of national income, and analyses of money and banking system.

EC 202. ECONOMIC PRINCIPLES II (3)

The operation of the market system, public finance theory and practice, international trade policies and theory and an introduction to labor history, unions and the theory of distribution.

EC 301. INTERMEDIATE ECONOMIC THEORY (3)

Prerequisite: EC 201-202. Advanced analysis of supply and demand as related to competition and monopoly, application of economic theory to management policies.

EC 311. LABOR ECONOMICS (3)

Prerequisite: EC 201-202. History of the trade union movement; economic analysis of trade union philosophies and practices; examination of basic influences affecting labor force, real wages and employment; collective bargaining and labor law.

EC 313. COLLECTIVE BARGAINING (3)

Prerequisite: EC 311. The administration of labor-management arguments, mediation and arbitration of industrial disputes and governmental role in collective bargaining.

EC 323. INCOME AND MONETARY ANALYSIS (3)

Prerequisite: EC 201-202. An advanced analysis of national income and monetary theory, emphasis on business cycles, income determination and economic growth.

EC 331. BUSINESS AND ECONOMIC STATISTICS I (3)

The collection, presentation, analysis and interpretation of quantitative data as they pertain to business problems and decisions.

EC 341. ECONOMICS OF TRANSPORTATION (3)

Prerequisite: EC 201-202. Functions of transportation agencies, rate structure of transportation companies, problems of state and federal regulations and coordination of transportation facilities.

EC 343. ECONOMICS OF PUBLIC UTILITIES (3)

Prerequisite. EC 201-202. The economic characteristics of natural monopolies and the economic problems of regulation and public ownership.

EC 351. INTERNATIONAL ECONOMICS (3)

Prerequisite: EC 201-202. The principles and mechanisms of trade, exchange, balance of payments, comparative costs, effects of trade restrictions and economic growth of underdeveloped areas.

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EC 401. HISTORY OF ECONOMIC THOUGHT (3)

Prerequisite: EC 301 and EC 323. A historical survey of the development of economic theory and the main streams of economic thought, including philosophical and value aspects of economic thought.

EC 405. COMPARATIVE ECONOMIC SYSTEMS (3)

Prerequisite: EC 201-202. An emphasis on the theoretical and practical differences between economic systems, such as capitalism, socialism and communism.

EC 411. LABOR RELATIONS AND PUBLIC POLICY (3)

Prerequisite: EC 311. Problems resulting from legislative and judicial interpretation of the rights, duties and responsibilities of labor unions and employers; public policy in labor-management negotiations; survey of legislation designed to protect workers.

EC 431. BUSINESS AND ECONOMIC STATISTICS II (3)

Prerequisite: EC 331. Basic probability distributions, theory of statistical estimation, tests of hypotheses, design of experiments. Introduction to nonparametric statistics.

EC 433. QUANTITATIVE ECONOMICS (3)

Prerequisite: EC 301 and EC 323. Quantitative aspects of the main economic concepts and use of quantitative knowledge in testing the validity of economic theory.

EC 437. BUSINESS-GOVERNMENT RELATIONSHIPS (3)

Prerequisite: EC 301. Patterns of regulations such as control of competitive enterprise, cartels and monopolies by the government. Government regulations and economic planning applied to politically determined economic goals.

EC 451. INTERNATIONAL COMMERCIAL POLICIES (3)

Prerequisite: EC 351. Geographic, social, political and related factors influencing commercial trade policies. Special emphasis on economic consequences of alternative courses of action.

EDUCATION

PREFIX: ED

Instructional staff: W. Bott, W. Christian, H. Dean, C. Douglass, G. Eichholz, T. Helvey, G. Hertz, L. Hilley, P. Jaeschke, D. Lantz, D. Lichtenberg, C. Miller, S. Miller, T. Mitchell, E. Moretz, J. Popovich, C. Reasoner, L. Sand, W. Scrivner, G. Sellers, R. Shannon, G. Sperry, H. Stewart, T. Stovall, R. Urbanek and J. Young.

ED 101. INTRODUCTION TO TEACHING (3)

The people with whom teachers deal, the types of tasks they perform and the challenges they can anticipate. Observation of teaching at several grade levels.

ED 205. HUMAN DEVELOPMENT AND LEARNING (3)

Prerequisite: CB 103-104. The developmental processes which occur during the human life span, with implications for learning.

ED 207. EDUCATIONAL PSYCHOLOGY (3)

The nature of learning and the application of learning principles to educational procedures.

ED 301. SCHOOL HEALTH EDUCATION (3)

Healthful school living, health services and health instruction through direct and incidental teaching.

ED 303. ART AND THE CHILD (3)

Prerequisite: CB 203-204. Art and the intellectual, creative, emotional and aesthetic growth of children.

ED 305. MUSIC AND THE CHILD (3)

Prerequisite: CB 203-204. Music fundamentals, literature and procedures relative to the teaching of music in the elementary school.

ED 307. PHYSICAL EDUCATION AND THE CHILD (3)

Motivating factors of play. Knowledge and skill in basic rhythmic activities, games and stunts. Lesson planning and appraisal of pupil achievement. Recommended for Elementary Education majors.

ED 309. READING AND THE CHILD (3)

Prerequisite: CB 101-102 and ED 205. Emphasis given to readiness, word recognition (phonetic, visual and contextual analysis), development of word meanings, basic study skills, comprehension abilities and reading interests and tastes.

ED 311. LANGUAGE ARTS AND THE CHILD (3)

Prerequisite: CB 101-102 and ED 205. Critical examination of speaking, writing, reading and listening experiences of children and ways these skills are developed for individual creative expression.

ED 313. LITERATURE AND THE CHILD (3)

Prerequisite: CB 101-102 and ED 205. Literary materials especially suitable for nursery school, kindergarten and elementary school children. Emphasis on appreciation of literature in the classroom and to the storytelling arts.

ED 315. ARITHMETIC AND THE CHILD (3)

Prerequisite: CB 109-110. Basic structure of arithmetic. Emphasis on principles underlying number concepts.

ED 317. SCIENCE AND THE CHILD (3)

Prerequisite: CB 105-106 or CB 107-108. Science as a process of investigation and how scientists go about their work. Selected concepts

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in physical, biological and earth sciences. Individual and group research projects.

ED 319. SOCIAL STUDIES AND THE CHILD (3)

Prerequisite: CB 201-202. Significant concepts in subjects concerned with human relationships and their application to the lives of elementary school pupils. Emphasis upon learning how to teach pupils to solve rather than be engulfed by social problems.

ED 321. PSYCHOLOGY OF EXCEPTIONAL CHILDREN (3)

Prerequisite: ED 205 or PY 101. Study of children with visual, auditory, speech, orthopedic and other organic disabilities as well as those demonstrating intellectual (gifted and retarded) emotional and social behavior deviations.

ED 323. EDUCATION OF RETARDED CHILDREN (3)

Characteristics of educable and trainable mentally retarded children, methods of diagnosis, classification and differentiation. Emphasis on class organization and methods of teaching.

ED 325. EDUCATION OF GIFTED CHILDREN (3)

Nature and needs of academically talented students with emphasis on curriculum and research findings.

ED 327. SCHOOL LIBRARY ORGANIZATION AND ADMINISTRATION (3)

Ordering, accessioning, budgeting, accounting, binding, care of books and circulation.

ED 329. EDUCATIONAL BROADCASTING (3)

Potentialities, uses and current developments in educational television. Observation of, and participation in, local radio and television broadcasts.

ED 379. ART IN THE ELEMENTARY SCHOOL (3)

Prerequisite: AR 202. Art expressions appropriate for elementary school pupils at each grade level.

ED 401. CURRICULUM AND INSTRUCTION (3)

Prerequisite: ED 205 and admission to teacher education program. Structure and purposes of curriculum organization with special emphasis on new ideas in curriculum. Each student will participate as a teacher-aide in an actual classroom situation.

ED 402. CURRICULUM AND INSTRUCTION (3)

Prerequisite: ED 401 and admission to internship program. Improvement of instructional practices and problems of evaluation in education.

ED 403. SOCIAL FOUNDATIONS OF EDUCATION (3)

Prerequisite: ED 401 and admission to internship program. The frame-

work within which schools function, emphasis on the impact of the crucial current issues on education and the values which provide direction for our schools.

ED 405. DIRECTED STUDY IN TEACHING SPECIALIZATION (3)

Extending competencies in the teaching field through television or planned independent study.

ED 411. AUDIO-VISUAL MATERIALS OF INSTRUCTION (3)

Instruction and practice in operation of multi-sensory aids and equipment; theory relative to audio-visual techniques.

ED 415. LIBRARY REFERENCE AND RESEARCH SERVICE (3)

Organization and administration of a research department. Materials and procedures of bibliographic research.

ED 417. LIBRARY CLASSIFICATION AND CATALOGING (3)

Cataloging library materials; uses of card catalog; forms of name, subject entries, references; consideration of book classification.

ED 419. MATERIALS CENTER ORGANIZATION AND ADMINISTRATION (3)

Prerequisite: ED 327 or approval of instructor. Ordering, accessioning, budgeting, accounting, care of materials and circulation.

ED 421. BOOKS AND RELATED MATERIALS FOR YOUNG PEOPLE (3)

Critical study of books and related materials for the adolescent, including their use for curriculum and leisure needs.

ED 423. PROGRAMMED INSTRUCTION AND TEACHING MACHINES (3)

Use of programmed materials and machine instruction in meeting individual differences of pupils; influence of the medium upon the role of the teacher; principles for programming in the different academic subjects.

ED 427. NEW TRENDS IN TEACHING BIOLOGY (3)

Modern practices in laboratory instruction in biology. Designed for prospective secondary teachers. Emphasis on biology as a process of investigation. Should be taken prior to ED 461.

ED 429. NEW TRENDS IN TEACHING READING (3)

Evaluation of the recent innovations in the instruction of reading and the other language arts; trends towards differentiation of instruction based upon individual pupil needs at all grades.

*** ED 431. INSTRUMENTAL MUSIC IN THE ELEMENTARY SCHOOL (3)**

*** ED 432. INSTRUMENTAL MUSIC IN THE JUNIOR HIGH SCHOOL (3)**

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*** ED 433. INSTRUMENTAL MUSIC IN THE SENIOR HIGH SCHOOL (3)**

*** ED 435. VOCAL MUSIC IN THE ELEMENTARY SCHOOL (3)**

*** ED 437. VOCAL MUSIC IN THE JUNIOR HIGH SCHOOL (3)**

*** ED 439. VOCAL MUSIC IN THE SENIOR HIGH SCHOOL (3)**

* Each class meets as a performing group. Score reading, conducting, organizational procedures, historical relationships and methods at the appropriate grade levels. Teaching techniques concerning the presentation of elements of theory, general music and literature.

ED 440. TEACHING IN THE ELEMENTARY SCHOOL (3)

Methods of teaching the elementary school subjects. This is the one required course for prospective elementary teachers.

ED 441-463. TEACHING IN THE SECONDARY SCHOOL (3)

Prerequisite: ED 401 and admission to internship program. Techniques and materials of instruction in one of the following secondary school subjects of the teaching specialization:

441 ART (K-12) 453 MUSIC-INSTRUMENTAL (K-12)

443 BUSINESS EDUCATION 455 MUSIC-VOCAL (K-12)

445 ENGLISH 457 PHYSICAL EDUCATION (K-12)

447 FOREIGN LANGUAGES 459 READING

449 JOURNALISM 461 SCIENCE

451 MATHEMATICS 463 SOCIAL STUDIES

ED 475. AMERICAN DEMOCRACY AND PUBLIC EDUCATION (3)

Interdependence of the public school and democracy in the United States and the responsibility of the school in fostering and strengthening basic democratic principles.

ED 477. THEORIES OF LEARNING (3)

Major contemporary theories of learning and their relevance to a significant educational program.

ED 479. PRINCIPLES OF EDUCATIONAL ADMINISTRATION (3)

Nature of school administration with the basic principles underlying improved practices.

ED 481. PRINCIPLES OF GUIDANCE (3)

The implications growth and development have for guidance in the home, school and community.

ED 483. TESTS AND MEASUREMENTS (3)

Fundamental descriptive statistics, basic measurement concepts, role

of measurement in education, construction of teacher-made tests and interpretation of standardized tests.

ED 485. TECHNIQUES OF EDUCATIONAL RESEARCH (3)

Application of the scientific method as related to creative investigation.

ED 487. HISTORY OF EDUCATION IN THE UNITED STATES (3)

The historical background of the present elementary, secondary and higher educational programs in the United States.

ED 489. PHILOSOPHY OF EDUCATION (3)

Fundamental issues in education as interpreted by the eminent philosophers. Consideration given to philosophical direction each student in the course believes education should take.

ED 491. SCHOOL CURRICULUM DEVELOPMENT (3)

A workshop for the improvement of the curriculum of an elementary or secondary school. Each participant works on his teaching matter area as well as the total program. Open only to teachers in service. Complete faculty participation is required.

**ED 493. SUBJECT SPECIALIZATION PLANNING FOR
THE ELEMENTARY TEACHER (3)**

Individually planned course in an elementary school subject. Open only to teachers in service, given as independent course of study.

**ED 495. SUBJECT SPECIALIZATION PLANNING FOR
THE SECONDARY TEACHER (3)**

Individually planned course in a secondary school subject. Open only to teachers in service, given as independent course of study.

ED 499. TEACHING INTERNSHIP (6)

Prerequisite: Completion of all general preparation requirements, ED 205, ED 401 and at least three-quarters of requirements in teaching specialization and admission to internship program. Observation and supervised teaching in elementary or secondary schools. Score of 500 or above on National Teachers Examination required for credit in this course.

ENGINEERING

PREFIX: EG

Instructional staff: R. Sweigert, chairman; D. Cooper, G. Cowell, H. Kendall.

EG 141. ENGINEERING GRAPHICS (3)

Fundamentals, orthographic projection, auxiliary views. Isometric oblique projection and drawing. Machine parts such as screws, gears, valves, cams. Lettering. Lecture and lab.

EG 142. ENGINEERING GRAPHICS (3)

Prerequisite: EG 141. Descriptive geometry. Complicated machine parts. Graphic and analytic solutions of engineering and geometric problems. Intersection and development of surfaces. Lecture and lab.

EG 261. ENGINEERING MECHANICS-STATICS (3)

Corequisite: PH 221. Principles of statics, resultants and equilibrium of force systems, introduction to structural mechanics, frictional forces, centroids and moments of inertia.

EG 262. ENGINEERING MECHANICS-DYNAMICS (3)

Prerequisite: EG 261, MA 204. Corequisite: MA 205. Dynamics of bodies for rectilinear and curvilinear translation, plane motion and rotational motion, mass moments of inertia, impulse and momentum, work and energy.

ENGLISH**PREFIX: EN**

Instructional staff: R. Zetler, chairman; G. Beauchamp, J. Bentley, W. Garrett, E. Hirshberg, J. Iorio, E. Johnston, S. Kahn, H. Kiefer, E. MacKay, J. Moore, R. O'Hara, A. Scroggins and E. Smith.

EN 131. READING ACCELERATION (3)

Designed to change the reading habits and patterns of students from left-to-right progression to down-the-page progression. Near the end of the course approximately 25 books will be read and an examination will be given on this material.

EN 201. MAJOR BRITISH WRITERS TO 1800 (3)

Selections from such works as Beowulf, The Canterbury Tales, the Faerie Queene, the plays of Elizabethan and Jacobean dramatists in the context of social, religious, economic, political and artistic impulses of the time.

EN 203. MAJOR BRITISH WRITERS FROM 1800 TO 1912 (3)

Significant intellectual and aesthetic trends of the Nineteenth and early Twentieth centuries and their influence on such important literary figures as Wordsworth, Coleridge, Byron, Keats, Tennyson, Browning, Carlyle, Hardy and others.

EN 205. MAJOR AMERICAN WRITERS (3)

Critical and historical study of several of the great American authors until 1912, including Emerson, Thoreau, Poe, Hawthorne, Melville, Whitman, Twain and James.

**EN 207. TWENTIETH CENTURY LITERATURE:
1912 TO THE PRESENT (3)**

Major intellectual currents of the modern world and their impact on such outstanding American and British writers as Eliot, Pound,

Yeats, Thomas, Shaw, O'Neill, Hemingway, Faulkner, Huxley, Woolf, Joyce, Lawrence and others.

EN 221. ADVANCED WRITING (3)

Emphasis upon excellence in the techniques of exposition, description and narration. Practice in the personal essay, critical review and narrative sketch. At least one paper of article length is required.

EN 309. FROM CHAUCER THROUGH THE ENGLISH RENAISSANCE (3)

Study of a major Chaucerian work, selections from *Le Morte d'Arthur*, *Utopia* and the mystery and miracle plays. One of the plays of an Elizabethan dramatist such as Marlowe, Jonson or Webster.

EN 311. VICTORIAN LITERATURE (3)

A content analysis of British and American poetry, short story, essay and novel, 1837-1901, with major attention to social issues, the impact of science, Evangelical guilt and the Victorian conversion-pattern, the comic spirit.

EN 313. NEO-CLASSICISM AND THE TRANSITION (3)

Work of major figures of the Age of Reason—Dryden, Defoe, Addison, Goldsmith and Sterne, and a thorough examination of the springs of the Romantic movement.

EN 315. THE ENGLISH AND AMERICAN NOVEL 1740-1837 (3)

Historical development of the novel in English; introductory lectures on the precursors of the novel; critical study of British novelists such as Richardson, Fielding, Smollett, Goldsmith, Austen, Scott; American works of Brown and Cooper.

EN 317. THE ENGLISH AND AMERICAN NOVEL 1837 TO THE PRESENT (3)

Continuation of the development of the novel; detailed examination of major works of such British novelists as Thackeray, the Brontës, Eliot, Dickens, James, Hardy, Conrad; such American novelists as Melville, Twain and Dreiser.

EN 319. THE BIBLE AS LITERATURE (3)

Major emphasis on literary types (cosmology, folk epic, chronicle, poetry, drama, epistle, biography); literary personalities of the Old and New Testaments; and Biblical archetypes of British and American literary classics.

EN 321. IMAGINATIVE WRITING (3)

Prerequisite: EN 221 or consent of instructor. Writing in the fields of the student's special interest—poetry, drama, short story. Analysis of professional examples of some of these; critical discussion of student writing.

EN 323. BUSINESS AND TECHNICAL COMMUNICATION (3)

The techniques of writing and reading business letters, formal and

informal reports, technical and semi-technical articles and abstracts. Chiefly for business and engineering students.

EN 331. LITERARY CRITICISM (3)

Survey of the principles of literary criticism from Aristotle to the new critics with intensive practice in applied criticism. Explication and evaluation of fiction, drama and poetry, aiming toward formation of sound literary judgments.

EN 335-336. WORLD LITERATURE (3, 3)

Classic literature of eastern and western cultures, exclusive of English works and modern masterpieces of French, German and Scandinavian writers.

EN 341. BASIC JOURNALISTIC WRITING (3)

Prerequisites: CB 101-102 or consent of instructor. Introduction to basic journalistic practice, including evaluation and selection of news, organization of stories for mass media, writing styles and readability formulas.

EN 343. WRITING FOR MASS COMMUNICATIONS (3)

Prerequisite for Speech majors: SH 241. A pre-professional course in writing for such mass communication areas as newspapers, magazines, radio and television, advertising and public relations. Laboratory experience on newspaper and other campus publications.

EN 347. NEWSWRITING AND NEWS EDITING (3)

Advanced study and practice in gathering, writing and display of news for the mass media. Includes layout, make-up, depth reporting, editing techniques, ethical problems and communication law. Laboratory experience on campus newspaper.

EN 349. MAGAZINE AND FEATURE WRITING (3)

Upper level course in preparation of articles for newspapers and magazines and a study of magazine editing techniques. Laboratory experience on campus publications.

EN 391. JUNIOR COLLOQUIUM (3)

Prerequisite: Junior standing. Detailed in areas of student's special interests. Emphasis on periods in which students have had little formal training.

EN 411. PLAYS OF SHAKESPEARE (3)

Extensive reading of examples of the "joyous" and "bitter" comedies, detailed study of some of the great tragedies and extensive reading of some of the chronicle plays.

EN 413. THE ROMANTIC WRITERS (3)

Works of the great Romantic poets—Coleridge, Wordsworth, Byron, Shelley, Keats and Landor.

EN 417. STRUCTURE OF AMERICAN ENGLISH (3)

Prerequisite for Speech majors: SH 203. The phonetics, phonology and morphology of American English. Structural grammar, graphics and the application of linguistics to the teaching of English.

EN 481. DIRECTED STUDY (3)

Directed study in special projects. Recommended only when material cannot be studied in scheduled courses.

EN 491. SENIOR COLLOQUIUM (3)

Prerequisite: Senior standing. Detailed in areas of students' special interests. Emphasis on periods in which students have had little formal training.

PROFESSIONAL PHYSICAL EDUCATION

PREFIX: EP

Instructional staff: P. Bellak, M. Fernandez, R. Heeschen, G. Hertz, L. Hilley, R. Hunter, M. Osborne, S. Prather, R. Wehr and J. Young.

EP 203. PRINCIPLES OF PHYSICAL EDUCATION (2)

General principles, procedures, historical development and contemporary theories and practices in physical education. Coed.

EP 217. FIRST AID (2)

Meets American Red Cross certification requirements in standard and advanced First Aid. Coed.

EP 301. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION (3)

Policies, standards and procedures pertaining to facility planning, maintenance, purchase of equipment, class organization, evaluation of pupil progress and general supervisory problems. Coed.

EP 321. ATHLETIC TRAINING (2)

Prerequisite: EP 323. Principles and techniques of conditioning athletes for competition; prevention and care of injuries in physical education and athletic activities. Men.

EP 323. KINESIOLOGY AND ADAPTED PHYSICAL EDUCATION (3)

Prerequisite: ZO 271. Mechanical and anatomical principles of human movement for motor learning and analysis. Adapting physical educational activities to meet the needs and interests of students with special problems. Coed.

EP 331. COACHING AND OFFICIATING FOOTBALL AND BASKETBALL (3)

Theory and practice of the fundamental techniques, organizational problems and strategy involved in coaching football and basketball. Men.

EP 332. COACHING AND OFFICIATING BASEBALL AND TRACK (3)

Theory and practice of the fundamental techniques, organizational

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problems and strategy involved in coaching baseball and track. Men.

EP 333. TEACHING AND OFFICIATING TEAM SPORTS (3)

Skills, strategy and application of rules; methods of teaching and officiating soccer, track and field, speedball and field hockey. Women.

EP 334. TEACHING AND OFFICIATING TEAM SPORTS (3)

Skills, strategy and application of rules; methods of teaching and officiating basketball, volleyball and softball; the application of practices in physical conditioning. Women.

EP 341. DANCE COMPOSITION (1)

Prerequisite: EP 120-166 or permission of instructor. Workshop in construction of modern dance compositions. Development of experimental movement studies based upon dynamic, spacial, rhythmic and dramatic aspects of composition. Coed.

EP 342. THEORY AND TEACHING OF MODERN DANCE (2)

Prerequisite: PE 120-166 or permission of instructor. Designed to acquaint students with methods and resources for use in teaching dance. Practical experience in presentation of dance techniques and composition work to classes. Coed.

EP 353. TEACHING AND OFFICIATING SWIMMING (2)

Prerequisites: PE 132, 134 or 136. Methods of teaching swimming, diving and life saving. Coed.

EP 354. TEACHING FOLK, SOCIAL AND SQUARE DANCE (2)

Prerequisite: PE 119. Study and analysis of folk, social and square dances with emphasis on teaching. Coed.

EP 357. PHYSICAL EDUCATION ACTIVITIES (2)

Prerequisites: PE 170 and 180. Methods of teaching soccer, speedball, gatorball, volleyball, softball, touch football, wrestling, gymnastics, weight training and special conditioning. Men.

EP 359. PHYSICAL EDUCATION ACTIVITIES (2)

Prerequisite: PE 170. Methods of teaching tumbling, apparatus and special conditioning. Women.

EP 361. COMMUNITY RECREATION (3)

Introduction to recreational outlets in the community and the administrative problems confronting recreational playground leaders and directors of community recreational programs. Coed.

EP 451. TEACHING INDIVIDUAL AND DUAL ACTIVITIES (2)

Prerequisites: PE 150, 152, 160 and 168. Methods of teaching tennis, golf, badminton, bowling, handball, archery and recreational activities. Coed.

EP 455. TESTS AND MEASUREMENTS IN PHYSICAL EDUCATION (2)

Practical application and study of administrative techniques and data

analysis of tests used to evaluate students, activities and programs. Coed.

EP 460. HEALTH EDUCATION PROJECT (3)

A practicum in health education through field experiences with official and voluntary health agencies. Coed.

INTRA-DIVISIONAL FINE ARTS

PREFIX: FA

Instructional staff: J. Clay, W. Houk and A. Watkins.

FA 301. HISTORY OF FINE ARTS (3)

Prerequisite: Two courses in art history, theatre arts history or music history. An integrated study of cultural periods reflected in works influenced by social, political, economic and philosophic conditions.

FA 302. HISTORY OF FINE ARTS (3)

Prerequisite: FA 301. Continuation of FA 301.

FA 491. SENIOR SEMINAR (3)

Prerequisites: FA 301 and FA 302. To aid majors to understand, appraise and perfect their own art and technique through critical and aesthetic judgments of colleagues in other arts. Discussion and critical evaluation.

FINANCE

PREFIX: FI

Instructional staff: W. Benham, J. Jackson, R. Pasternak, D. Wakefield.

FI 201. PERSONAL FINANCE (3)

Non-technical consideration of budgeting, borrowing, insurance, investments, taxes, home ownership and family financial planning.

FI 301-302. PRINCIPLES OF FINANCE (3, 3)

Prerequisites: AC 201-202, EC 201-202. Fundamentals of finance including sources and uses of funds, short term and long term; business and public finance; fiscal and monetary authorities and policies.

FI 303. PRINCIPLES OF INSURANCE (3)

Principles of risk insurance and applications to business management and personal affairs; concepts and methods of handling risks; insurance carriers, contracts and underwriting; loss prevention and settlement; government insurance programs.

FI 305. PRINCIPLES OF REAL ESTATE (3)

The nature of real property, principles of urban land utilization, classification of property rights, urban development, real property valuation, the real estate market and its functions, and government regulation of real estate practices.

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FI 351. FOREIGN EXCHANGE AND INTERNATIONAL FINANCE (3)

Prerequisites: FI 301-302 and EC 201-202. The principles of foreign exchange, exchange controls and methods of financing foreign trade and problems associated with finance and monetary transactions.

FI 411. ADVANCED CORPORATION FINANCE (3)

Prerequisite: FI 301-302. The problems in financing business enterprise, from the viewpoint of business management and the economic system.

FI 421. PRINCIPLES OF INVESTMENT (3)

Prerequisite: FI 301-302. Characteristics of government and corporate securities; operations of investment companies and investing institutions; relation of investment policy to money markets and business fluctuations; security price-making forces; preparation of personal investment programs.

FI 431. FINANCIAL INSTITUTIONS (3)

Prerequisite: FI 301-302. Private and governmental financial units, their place in the national economy, relationships to other business and financial institutions and influence upon the supply of and demand for funds.

FI 489. SPECIAL STUDIES IN FINANCE (3)

Prerequisite: Consent of instructor. Additional study of a specialized or non-specialized nature for majors. Materials for the course selected and studied in conjunction with the major professor.

FRENCH

PREFIX: FR

Instructional staff: A. Cherry, R. Davison, R. Morgenroth, O. Russell.

Basic Courses listed under CB.

FR 221. TECHNICAL FRENCH (3)

Primarily for students majoring in science or those desiring help in learning to read texts and research material in a specialized field.

FR 301. ADVANCED COMPOSITION (3)

To develop the student's ease in and command of written French and to increase his vocabulary and familiarity with the idiom in free and fixed composition.

FR 303. ADVANCED CONVERSATION AND PRONUNCIATION (3)

Designed to develop ease in speaking correct French with attention given to aural comprehension, pronunciation and intonation.

FR 305. SURVEY OF FRENCH LITERATURE (3)

Middle Ages and Renaissance.

FR 306. SURVEY OF FRENCH LITERATURE (3)

Seventeenth and Eighteenth Centuries.

FR 307. SURVEY OF FRENCH LITERATURE (3)

Nineteenth and Twentieth Centuries.

History of Romance Languages listed under RL.

FR 421-422. LITERATURE OF THE SEVENTEENTH CENTURY (6)

Literary trends in French classicism. Descartes, Pascal, Corneille, Racine, Moliere, La Fontaine.

FR 431-432. LITERATURE OF THE EIGHTEENTH CENTURY (6)

The Age of Enlightenment. The growth of modern thought and criticism. Montesquieu, Diderot, Voltaire, Rousseau, the novel and the theatre.

FR 441-442. LITERATURE OF THE NINETEENTH CENTURY (6)

Romanticism, Realism, Naturalism, the Parnassian and Symbolist schools. Poetry, drama and the novel.

FR 451-452. LITERATURE OF THE TWENTIETH CENTURY (6)

Proust, Gide, Claudel, Valery, Giraudoux, Sartre, Camus and others. Poetry, drama and the novel.

FR 481. DIRECTED STUDY (3)

Individual specialized study in literature and linguistics. Recommended only when material cannot be studied in scheduled courses.

FR 491. SEMINAR (3)

Directed readings in special periods, authors or genres with group discussion. Papers on areas of individual investigation.

PERSONNEL AND GENERAL ADMINISTRATION

PREFIX: GA

Instructional staff: W. Benham, W. Heier, W. Hodges and J. Wharton.

GA 301. PRINCIPLES OF MANAGEMENT (3)

Prerequisite: EC 201-202. Presentation and familiarization with a management process and phases of administrative staff and operative management.

GA 341. PERSONNEL ADMINISTRATION (3)

Prerequisite: GA 301 and some background in psychology or sociology. Objectives, functions and organization of personnel programs, personnel administration and application of the personnel functions to the business firm.

GA 343. PERSONNEL TECHNIQUES AND PROBLEMS (3)

Prerequisite: GA 341. Practical application of personnel problems and

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techniques to personnel administration. Preparation of job analysis, job description, job evaluation, wage administration, merit rating, employment tests, personnel form design, technique of the personnel audit.

GA 361. BUSINESS LAW I (3)

The nature of legal institutions, essentials of a binding contract, remedies granted in event of breach of contract and rights acquired by assignment of contracts.

GA 362. BUSINESS LAW II (3)

Prerequisite: GA 361. Legal problems in marketing of goods, nature of property, sales of personal property, securing of credit granted, nature and use of negotiable instruments.

GA 431. ORGANIZATION BEHAVIOR AND OPERATIONS (3)

Prerequisite: GA 301. Organization theory and problems relating to variables with which a manager deals, leadership needs and applications.

GA 445. PERSONNEL DEVELOPMENT AND TRAINING

Prerequisite: GA 341. The administration of industrial employment, training and development programs, organizational planning, manpower selection, placement and evaluation techniques.

GA 489. SPECIAL STUDIES IN PERSONNEL AND GENERAL ADMINISTRATION (3)

Prerequisite: GA 301 and two other Administration courses. Additional study of a specialized or non-specialized nature for majors. Materials for the course selected and studied in conjunction with a major professor.

GA 499. SENIOR SEMINAR IN BUSINESS ADMINISTRATION (3)

Prerequisite: senior standing. Allows students to draw on material from their complete college program and to apply this to case studies, research projects and class discussion. Topics will include business policy, business operations and the environment of business.

GEOGRAPHY

PREFIX: GE

Instructional staff: R. Fuson, chairman; A. Gonzalez.

GE 103. INTRODUCTION TO GEOGRAPHY (5)

The principles of geography; form and representation of the earth, climates, landforms, water bodies, biotic regions and elements of the cultural landscape.

GE 251. WORLD CULTURAL GEOGRAPHY (5)

Prerequisite: GE 103 or six hours from HI 121, 122, 231, 232, PS 101. The human geography of the earth's primary cultural regions.

GE 301. RESOURCES OF THE UNITED STATES (3)

The distribution, exploitation and conservation of physical and human resources.

GE 351. WEATHER AND CLIMATE (3)

Prerequisite: GE 103. The principles of meteorology and climatology.

GE 461. CARTOGRAPHY AND GRAPHICS (3)

Prerequisites: GE 103, 251. Theoretical and applied cartography, other techniques for portraying geographic information.

GE 481. DIRECTED STUDY (3)

Prerequisites: GE 103, 251. Directed study in physical and/or cultural geography. Topics vary to suit individual needs.

GE 491. SENIOR SEMINAR (3)

Prerequisite: Consent of instructor. The history, philosophy, literature and methodology of geography.

GERMAN

PREFIX: GN

Instructional staff: R. Ekmanis, A. Gessman.

Basic courses listed under CB.

GN 221. TECHNICAL GERMAN (3)

Primarily for students majoring in science or those desiring help in learning to read texts and research material in a specialized field.

GN 301-303. ADVANCED COMPOSITION AND CONVERSATION (6)

Intensive study of writing and conversation skills based on readings in German cultural history and dramas. Descriptive grammar and syntax.

GN 305-306. MAIN CURRENTS IN GERMAN LITERATURE (6)

Prerequisites: GN 301-303. Literary masterpieces in poetry, the novel and the drama. Short research papers on one or more authors.

GN 413. HISTORY OF GERMAN LANGUAGE (3)

Prerequisite: GN 301. Development of the language from the Indo-European family: Gothic, Old High German to Middle High German and East-Middle German. Basic phonetics, the consonant shifts and a study of cognate principles.

GN 421. GOETHE'S FAUST, PART I (3)

The tradition and development of the Faust story up to Goethe, followed by intensive reading of the first part of Goethe's Faust.

GN 451. GERMAN PROSE (3)

Prerequisites: GN 301-303. Philosophical, historical and imaginative

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prose, works of Tauler, Lessing, Schlegel, Ranke and others.

GN 452. GERMAN POETRY (3)

Prerequisites: GN 301-303. Lyrical masterpieces ranging from Walter von der Vogelweide to Rilke and Hoffmannsthal.

GN 481. DIRECTED STUDY (3)

Specialized study in literature and linguistics. Recommended only when material cannot be studied in special courses.

GN 491. SEMINAR: CLASSICAL PERIOD (3)

Prerequisites: GN 305-306 and either GN 451 or 452. Works of Lessing, Goethe and Schiller: prose, drama and poetry. Independent research into a specific phase of one author.

GN 492. SEMINAR: 20TH CENTURY LITERATURE (3)

Prerequisites: GN 305-306 and either GN 451 or 452. Major 20th century authors: Gerhardt Hauptmann, Thomas Mann, Franz Werfel, Franz Kafka, R. M. Rilke and Hermann Hesse.

GEOLOGY

PREFIX: GY

Instructional staff: W. Ragan, chairman.

GY 201. INTRODUCTION TO GEOLOGY (4)

Study of earth materials and the processes responsible for changing the face of the earth. Examination of minerals and rocks, topographic and geologic maps and aerial photographs. Occasional field trips. Lecture and lab.

GY 202. INTRODUCTION TO HISTORICAL GEOLOGY (4)

Study of the record of past life and interpretation of the major physical events in the history of the earth. Occasional field trips. Lecture and lab.

GY 211. INTRODUCTION TO SOILS (3)

The origin, geologic development and nature of soils. Fundamentals of soil science and principles underlying their rational management with application to the ecology of Florida soils and vegetation. Lecture and lab.

GY 301. INTRODUCTION TO PALEONTOLOGY (4)

Paleontology and stratigraphic occurrence of most important invertebrate fossils of the geologic record. Lecture and lab.

GY 311. MINERALOGY AND PETROLOGY (4)

Prerequisite: GY 201. Introduction to crystallography. Systematic study of mineral groups and their identification by chemical, physical and microscope methods and identification of common rocks. Lecture and lab.

GY 331. PRINCIPLES OF SEDIMENTATION AND STRATIGRAPHY (3)

Prerequisite: GY 201-202. Chemical, physical and tectonic environments of sediments; emphasis on correlation, petrography and stratigraphic problems of sedimentary sequences. Lecture and lab.

GY 333. GEOMORPHOLOGY (3)

Prerequisite: Permission of instructor. Origin, evolution and distribution of land forms.

GY 341. ECONOMIC MINERAL DEPOSITS (3)

Prerequisite or corequisite: GY 311. Principles involved in the origin, occurrence, recovery and use of mineral resources with emphasis on factors related to Florida deposits. Lecture and lab.

GY 351. GROUND WATER GEOLOGY AND DRAINAGE (3)

Prerequisite or corequisite: GY 201. Geologic factors involved in the occurrence, chemical composition, distribution, recovery and use of surface and subsurface water. Study of Florida factors.

GY 361. STRUCTURAL GEOLOGY (3)

Prerequisite: GY 202 or equivalent. Application of basic principles of geology, mathematics and physics in solving relationships of strata and interpreting structural features in the earth's crust.

GY 401. FIELD METHODS (3)

Prerequisite: 10 hours of geology courses. Fundamentals of geology in the field laboratory: compass and plane table mapping, mapping on aerial photos, reconnaissance surveys, interpretation of geologic structures. Lecture and lab.

GY 481. SENIOR RESEARCH (1 TO 3)

Prerequisite: senior or advanced junior standing and consent of instructor. Individual experimental investigations with faculty supervision. Limit of three credits.

GY 483. SELECTED TOPICS IN GEOLOGY (1 TO 3)

Prerequisite: senior standing. A course of study directed by a faculty member expert in the particular field. Courses contemplated: introductory geological oceanography and geology of coastal plain deposits.

GY 491. GEOLOGY SEMINAR (1)

Prerequisite: senior or advanced junior standing and consent of instructor. Can be taken twice for credit.

HISTORY**PREFIX: HI**

Instructional staff: R. Heywood, chairman; C. Arnade, O. Futch, R. Goldstein, H. Kiefer and S. Smith.

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PART I

HI 111-112. AMERICAN HISTORY (3,3)

A history of the United States with attention given to relevant developments in the Western Hemisphere. 111: European origins to 1865; 112: 1865 to present.

HI 121-122. HISTORY OF WESTERN CIVILIZATION (3,3)

Chief political, social, economic and culultural developments that have shaped Western civilization; inter-relationships with the non-Western world. 121: prehistory to 1713; 122: 1713 to present.

HI 231-232. MODERN EUROPEAN HISTORY (3,3)

Basic patterns of modern European history; the rise of the nation-state; economic, social and intellectual developments; traditions and patterns that have shaped European institutions and cultural development. 231: Renaissance to 1815; 232: 1815 to present.

PART II

HI 241. ENGLISH HISTORY (4)

The development of English ideas and institutions from the mid-Fourteenth Century to the present.

HI 311. AMERICAN FOREIGN RELATIONS (3)

The development of principles and problems of American foreign policy, especially in the Twentieth Century.

HI 315. THE CIVIL WAR AND ITS AFTERMATH (3)

The causes of the War between the States and the factors, forces and atmosphere which produced the reconstruction policy following the war, with continued emphasis on the Negro down to the present.

HI 317. HISTORY OF FLORIDA (3)

A history of Florida and the Caribbean. Florida as an area of discovery, colonization and imperial conflict; the emergence of Florida within its regional setting.

HI 321. ANCIENT CIVILIZATIONS (3)

A history of the nations and empires of the ancient Mediterranean and Near East, emphasizing their political, economic and religious institutions and their achievements in philosophy and science.

HI 325. THE RENAISSANCE-REFORMATION 1337-1560 (4)

Renaissance Italy, early capitalism, economic expansion and overseas discovery, new monarchies, the Italian wars, the Empire of Charles V, the Protestant and Catholic Reformations.

HI 331. EUROPE IN THE TWENTIETH CENTURY (3)

The development of European international relations from the post-World War I period to the present, with concentration on the more recent period.

HI 337-338. A HISTORY OF RUSSIA (3, 3)

An introductory survey of the primary political, social, economic and cultural institutions of Russia from its pre-history to the present. 337: pre-history to 1917; 338: 1917 to present.

HI 351. LATIN AMERICAN HISTORY (3)

Colonial regimes, independence and the rise of new nations, the technique of government, the Nineteenth Century mestizo hemisphere, industrialization, international organization.

HI 361. REVOLUTION IN THE MODERN WORLD (3)

The nature of revolution in modern history, especially the American, French, Russian and more recent revolutions.

HI 371. FAR EAST (3)

A history of the Far East, including China, Korea and Japan, from early to modern times.

PART III

HI 381. READINGS IN SPECIAL TOPICS (1 TO 3)

Prerequisite: Arrangement with instructor prior to registration.

HI 485. HISTORIOGRAPHY AND METHODS (3)

Prerequisite: To be taken during senior year. The various schools of historical thought, representative historians, bibliography and an introduction to the methods of historical research and writing.

HI 491. SENIOR SEMINAR IN HISTORY (3)

Directed research in special topics designed to meet the particular needs and interests of the individual student.

INTER-DIVISIONAL HUMANITIES

PREFIX: HU

Instructional staff: J. Adams, D. Battenfeld, J. Hicks, T. Hoffman, H. Juergensen, H. Kiefer, E. MacKay, E. Stanton and W. Wilkes.

HU 307-308. HUMANITIES AND HUMANE VALUES (3, 3)

HU 307 must precede HU 308. Prerequisite: CB 203-204 or consent of instructor. Masterpieces of music, visual arts, literatures and philosophy in varying cultural and historical situations.

HU 311-312. TWENTIETH CENTURY ARTS AND LETTERS (3, 3)

HU 311 must precede HU 312. Prerequisite: CB 203-204 or consent of instructor. Developments internationally in the arts, literature and philosophy since 1900. Concentration on two major creative workers in each major art form.

HU 313-314. ROMANTIC ARTS AND LETTERS (3, 3)

HU 313 must precede HU 314. Prerequisite: CB 203-204 or consent

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of instructor. Origins of Romanticism before 1800; growth through Nineteenth Century, European and American; reactions against Romanticism.

HU 315-316. THE ENLIGHTENMENT (3, 3)

HU 315 must precede HU 316. Prerequisite: CB 203-204 or consent of instructor. Analysis of chief arts, literatures and philosophies in the period from 1650 to the end of the Eighteenth Century; Rationalism, neo-Classicism and the Baroque.

HU 317-318. RENAISSANCE ARTS AND LETTERS (3, 3)

HU 317 must precede HU 318. Prerequisite: CB 203-204 or consent of instructor. A careful examination, in intellectual and social context, of masterpieces and major artists of the Renaissance (about 1350 to 1650) in Europe and England.

HU 321-322. MEDIEVAL ARTS AND LETTERS (3, 3)

HU 321 must precede HU 322. Prerequisites: CB 203-204 or consent of instructor. The humanities and cultural activities from the Eleventh to the Fourteenth Centuries. Influences from Byzantine, Arabian and early Christian sources.

HU 323-324. CLASSICAL ARTS AND LETTERS (3, 3)

HU 323 must precede HU 324. Prerequisite: CB 203-204 or consent of instructor. A careful analysis, in historical context, of masterpieces selected from the arts and letters of ancient Greece and Rome.

HU 331-332. HUMANITIES IN THE ORIENT (3, 3)

Prerequisite: CB 203-204 or consent of instructor. Painting, literature, music, architecture and related arts of China, India and Japan; influences of Oriental philosophies and social forms; Western and Oriental influences in recent arts.

HU 333-334. SELECTED NON-WESTERN HUMANITIES (3, 3)

Prerequisite: CB 203-204 or consent of instructor. Materials chosen from arts and literatures of Asia and Africa; varied to serve needs of Area Studies programs in Social Science.

HU 335-336. HUMANITIES IN AMERICA (3, 3)

Prerequisite: CB 203-204 or consent of instructor. Development of humane arts and values in the Americas, especially the United States; influences from Europe; stress on important individual artists and thinkers.

HU 491. SELECTED PROBLEMS IN THE HUMANITIES (3)

Prerequisite: senior classification and six credits in 300-level HU courses. Analysis tracing through selected masterpieces the evolution of a few humane or esthetic concepts such as justice and beauty.

HU 493. PHILOSOPHY OF THE ARTS (3)

Prerequisite: senior classification and six credits in 300-level HU courses. Esthetic theories analyzed, compared and tested against spe-

cific works of the arts and imaginative literatures. Students' formulation of their own esthetic principles.

ITALIAN

PREFIX: IT

Instructional staff: M. Archibusevas, C. Micarelli.

Basic courses listed under CB.

IT 301. ADVANCED ITALIAN COMPOSITION (3)

To improve the student's ability in writing Italian, to increase his ability in comprehension and use of the grammatical elements. Practice in both free and fixed composition.

IT 303. ADVANCED ITALIAN CONVERSATION (3)

To develop fluency and correctness in spoken Italian.

IT 305. SURVEY OF ITALIAN LITERATURE (3)

Origins of Italian literature and Medieval Italian literature.

IT 306. SURVEY OF ITALIAN LITERATURE (3)

General aspects of the literature of the Renaissance and the literature through the Eighteenth Century.

IT 307. SURVEY OF ITALIAN LITERATURE (3)

The major movements of the Nineteenth and Twentieth Centuries.

History of Romance Languages listed under RL.

IT 411-412. LIFE AND WORKS OF DANTE (6)

The works of Dante with special emphasis on the Divine Comedy. Special attention to the author's life and times as reflected in his works.

IT 441. NINETEENTH CENTURY ITALIAN LITERATURE (3)

Romanticism, Realism and Naturalism in Italy with special emphasis on the novel.

IT 443. TWENTIETH CENTURY ITALIAN LITERATURE (3)

A comprehensive study of the major writers of the century, with special emphasis on D'Annunzio and Pirandello.

IT 481. DIRECTED STUDY (3)

Individual specialized study in literature and linguistics. Recommended only when material cannot be studied in scheduled courses.

IT 491. ITALIAN SENIOR SEMINAR (3)

The study of a specific writer or literary movement as chosen by the instructor. Individual research by students.

LATIN

PREFIX: LA

Instructional staff: A. Gessman.

LA 111-112. ELEMENTARY LATIN (6)

Elements of grammar; practice in Latin composition and translation; readings of selections from simple Latin texts.

LA 221. INTERMEDIATE LATIN (3)

Prose. Selections from Cicero's speeches and letters and from the letters of Pliny the Younger. Study of more difficult portions of Latin grammar.

LA 222. INTERMEDIATE LATIN (3)

Poetry. Selections from the Aeneid. Thematic, stylistic and formal analysis of the Roman epic and comparison with Homer. Continuation of grammar study.

LA 311. LATIN POETRY (3)

Selected passages from Catullus, Ovid and Horace read and interpreted. Study of poetic form and metre. Introduction to Graeco-Roman mythology.

LA 313. LATIN PROSE (3)

Selected readings from Sallust, Livy, Tacitus and Roman philosophical works. Discussion of Roman historiography and philosophy and the Greek influence on them.

LA 411. LATIN SEMINAR (3)

The difficult portions of Latin grammar and of the morphological and syntactic structure of Latin. Theory of literature; genres of literary works, style, figures of speech, synonymics, principles of oratory and versification.

LA 413. LATIN SEMINAR (3)

Roman literature from its beginnings to the end of the Roman Empire; reading and interpretation of sample texts from preclassical and postclassical literature and other written material.

LA 481. DIRECTED STUDY (3)

Specialized study of linguistic or literary topics depending on student's need and interest.

LINGUISTICS

PREFIX: LI

Instructional staff: A. Gessman.

LI 301. GENERAL LINGUISTICS I (3)

Generalities about language, speech organs and phonation process;

writing systems; structural features of language, semantics and stylistics; language types and kinship groups; general dialectology.

LI 303. GENERAL LINGUISTICS II (3)

Nature, principles and causes of linguistic change, documentation of earlier stages of language, linguistic research methods, history of writing. Change of structural features and semantic change. Genealogy of languages, glottogonic theories.

MATHEMATICS

PREFIX: MA

Instructional staff: F. Cleaver, chairman; W. J. Davis, B. Fusaro, L. Luckenbach, G. Michaelides, V. Morrison, E. Reuning, D. Rose, R. Smith, W. Williams, R. Yates.

Basic courses listed under CB.

MA 101. FOUNDATIONS OF UNIVERSITY MATHEMATICS (4)

Prerequisite: Proficiency test, two years of secondary school algebra, one year of plane geometry. Secondary school trigonometry desirable. Logic and set theory; real numbers and their properties; analytic trigonometry; introduction to analytic geometry.

MA 145. INTRODUCTORY STATISTICS (3)

Prerequisite: Proficiency test. Measures of central tendency, dispersion and skewness; probability; testing hypotheses; lines of best fit; measures of correlation; applications.

MA 203. CALCULUS I (4)

Prerequisite: MA 101 or consent of program chairman. Limits and derivatives; applications; conic sections and algebraic curves; the definite integral.

MA 204. CALCULUS II (4)

Prerequisite: MA 203. Transcendental functions; formal integration and applications; basic properties of continuous and differentiable functions; parametric equations; polar coordinates.

MA 205. CALCULUS III (4)

Prerequisite: MA 204. Infinite series; solid analytic geometry; vectors; partial differentiation.

MA 301. DIFFERENTIAL EQUATIONS (3)

Corequisite: MA 205. Ordinary differential equations; derivative operator; Laplace transform; series solutions; applications.

MA 305. ADVANCED CALCULUS I (3)

Prerequisite: MA 205. Partial differentiation and applications; differential geometry; multiple integrals; line and surface integrals.

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MA 306. ADVANCED CALCULUS II (3)

Prerequisite: MA 305. Limits and indeterminate forms; infinite series including Fourier series; improper integrals; Laplace transform.

MA 309. SET THEORY (2)

Prerequisite: MA 203. Relations, functions; order; cardinal numbers; axiom of choice.

MA 321. LINEAR ALGEBRA (3)

Prerequisite: MA 203. Vectors and vector spaces; Euclidean n -space; determinants; linear transformations and matrices.

MA 323. SYNTHETIC GEOMETRY (3)

Prerequisite: MA 203. Emphasis on axiomatics; advanced Euclidean geometry; elements of projective geometry; non-Euclidean geometries.

MA 345. PROBABILITY AND STATISTICS (3)

Prerequisite: MA 204. Theorems in probability; mathematical expectation; law of large numbers and applications; fundamental limit theorems.

MA 347. NUMERICAL ANALYSIS (3)

Prerequisite: MA 205. Interpolation and quadrature; finite differences; numerical solution of algebraic and transcendental equations; numerical solution of differential equations; computer techniques.

MA 401. PARTIAL DIFFERENTIAL EQUATIONS (3)

Prerequisite: MA 301. First order equations in two independent variables; characteristics; the complete integral; first order linear and quasi-linear equations in independent variables; the Cauchy Theorem.

MA 411. VECTOR ANALYSIS (3)

Prerequisite: MA 205. The algebra and calculus of vectors; applications; general coordinates; introduction to tensor analysis.

MA 413. REAL ANALYSIS I (3)

Prerequisite: MA 205, MA 309. Continuity; differentiation and derivatives; sequences and series of functions; convergence.

MA 414. REAL ANALYSIS II (3)

Prerequisite: MA 413. Measure theory and integration.

MA 421. COMPLEX ANALYSIS I (3)

Prerequisite: MA 205. Complex numbers; analytic functions and mapping; integrals; power series.

MA 422. COMPLEX ANALYSIS II (3)

Prerequisite: MA 421. Residues and poles; conformal mapping and applications.

MA 423. ALGEBRA I (3)

Prerequisites: MA 205, MA 309. Semigroups and groups; rings and fields; modules and ideals; lattices.

MA 424. ALGEBRA II (3)

Prerequisite: MA 423. Continuation of MA 423.

MA 431. TOPOLOGY I (3)

Prerequisite: MA 205, MA 309. Topological spaces; connectedness; compactness; Moore-Smith convergence.

MA 432. TOPOLOGY II (3)

Prerequisite: MA 431. Product, quotient and metric spaces; embedding.

MA 483. SELECTED TOPICS (3)

Prerequisite: senior or advanced junior standing. Each topic is a course in directed study under the supervision of a faculty member. Topics include: history of mathematics, logic and foundations, number theory, group theory, differential geometry, algebraic topology.

MARKETING

PREFIX: MK

Instructional staff: D. Anderson, D. Wakefield.

MK 301. PRINCIPLES OF MARKETING (3)

Prerequisite: EC 201-202. The institutions and methods of trade operations, retail and wholesale agencies, elements of marketing efficiently, cost of marketing, price maintenance and the relation of the government to marketing.

MK 311. PRICING AND PROMOTIONAL POLICY (3)

Prerequisite: EC 301 and MK 301. A comparison of economic theory with empirical findings about pricing practices, all related to advertising sales management, promotion and the managerial decision making process.

MK 315. MARKETING INSTITUTIONS AND CHANNELS (3)

Prerequisite: MK 301. The fundamentals explaining alternate channels of distribution and the roles played by various business firms, the evolution of business structures in marketing, reasons for change and projected market patterns for the future.

MK 411. MARKET RESEARCH. BEHAVIOR AND MEASUREMENT (3)

Prerequisite: EC 331 and MK 301. Measurement of markets and analysis of consumer behavior and motivation; measurement of total market potentials; definition of market areas; market forecasting.

MK 415. MARKETING MANAGEMENT (3)

Prerequisite: MK 311 or MK 315. Integrates and reviews pertinent

marketing knowledge acquired in earlier courses. Cases, current readings and class discussion.

MK 489. SPECIAL STUDIES IN MARKETING. (3)

Prerequisite: MK 301 and faculty permission. Intensive independent research in one specific marketing problem, under the direction of the major professor, progress reported in seminar.

MUSIC

PREFIX: MU

Instructional staff: E. Preodor, chairman; A. Beecher, M. Enix, L. Golding, P. Hegvik, T. Hoffman, S. Miller, G. Sperry, R. Still and A. Watkins.

MU 101. MUSIC THEORY (3)

Required of music majors. Fundamentals of musicianship: intervals, rhythm and meter, scales, harmony, counterpoint; development of musical styles from Gregorian chant through Bach. Special emphasis on development of skills in performance, composition, dictation and listening techniques.

MU 102. MUSIC THEORY (3)

Prerequisite: MU 101. Continuation of MU 101.

MU 103. RUDIMENTS OF MUSIC (2)

For non-music majors. Study of rhythm, melody, elementary harmony, musical notation, elementary conducting, keyboard techniques, sightsinging, aural and visual analysis of music.

MU 105. UNIVERSITY ORCHESTRA (1)

Description under 109.

MU 107. UNIVERSITY BAND (1)

Description under 109.

MU 109. UNIVERSITY CHORUS (1)

Prerequisite: Consent of director. The study, rehearsal and performance of major musical works. Membership open to all University students by audition on a credit or non-credit basis. Non-credit members receive no grade but are required to participate in all scheduled rehearsals and concerts. Credit members will complete a documented written report on a trimester self-study project in addition to the performance requirements and the study of musicological aspects of the literature performed by the group. May be repeated for credit four times.

Applied Music

A study of vocal and instrumental technique through historical background, performance and interpretation of music literature. Students are classified according to technical ability and musical back-

ground and placed in graded units I through X. Beginning courses include grades I and II; intermediate courses include grades III through VI; advanced courses continue from VII through X and include a recital requirement. Credit toward a degree in a major performance medium begins at Grade III. Lists of graded material for each instrument or voice are available in the Office of the Division of Fine Arts.

Each graded unit meets as a class two hours a week to perform and analyze the literature selected for it, and to discuss technique, interpretation and style. Private lessons in each graded unit are devoted to the solution of technical and musical problems of the individual student. Each student shall be assigned a trimester study-project pertinent to his applied field. Instruments and practice facilities will be provided for daily use. Courses in applied music may be repeated for credit. Intermediate courses (211-261) meet as a class only one hour a week; the second hour each week is devoted to a survey of music history and literature from the time of the ancient Greeks to the present with the objective of forming a historical perspective regarding the development of musical resources and style; bibliographical and biographical materials are stressed.

MU 111. BEGINNING STRING INSTRUMENTS (1)

MU 121. BEGINNING PIANO (1)

MU 131. BEGINNING VOICE (1)

MU 141. BEGINNING WOOD-WIND INSTRUMENTS (1)

MU 151. BEGINNING BRASS INSTRUMENTS (1)

MU 161. BEGINNING PERCUSSION INSTRUMENTS (1)

MU 201. MUSIC THEORY (3)

Prerequisite: MU 102. Required of music majors. Development of musical styles from the Classical era through the Romantic era. Analysis of representative works of the late Nineteenth and Twentieth Centuries.

MU 202. MUSIC THEORY (3)

Prerequisite: MU 201. Continuation of MU 201.

MU 211. INTERMEDIATE STRING INSTRUMENTS (2)

MU 221. INTERMEDIATE PIANO (2)

MU 231. INTERMEDIATE VOICE (2)

MU 241. INTERMEDIATE WOOD-WIND INSTRUMENTS (2)

MU 251. INTERMEDIATE BRASS INSTRUMENTS (2)

MU 261. INTERMEDIATE PERCUSSION INSTRUMENTS (2)

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MU 301. MUSIC THEORY (3)

Prerequisite: MU 202. Compositional techniques of Gregorian chant, organum, the School of Notre Dame and the isorhythmic motet. Sixteenth Century counterpoint; composition in the Renaissance style. Brief examination of Baroque, Classical and Romantic compositional techniques; second trimester devoted largely to an examination of the techniques of contemporary music and composition in contemporary idioms.

MU 302. MUSIC THEORY (3)

Prerequisite: MU 301. Continuation of MU 301.

MU 303. CONTEMPORARY MUSIC LITERATURE (3)

Criticism and analysis of selected musical works of the Twentieth Century.

MU 377. STRING WORKSHOP (2)

To prepare music teachers for inaugurating a string instrumental program. Methods, techniques and materials for the organization and execution of heterogeneous string classes will be studied, performed and evaluated.

MU 411. ADVANCED STRING INSTRUMENTS (2)

MU 421. ADVANCED PIANO (2)

MU 431. ADVANCED VOICE (2)

MU 441. ADVANCED WOOD-WIND INSTRUMENTS (2)

MU 451. ADVANCED BRASS INSTRUMENTS (2)

MU 461. ADVANCED PERCUSSION INSTRUMENTS (2)

MU 471. STUDIO TEACHING (3)

Prerequisite: Consent of instructor. Advanced instrumentalists or vocalists planning studio teaching as a career. Emphasis on the organization of materials, literature and techniques.

MU 481. DIRECTED STUDIES IN MUSIC (1 TO 6)

Prerequisite: MU 202 and consent of instructor. Projects and problems in specialized areas of music designed to meet the particular needs and interests of the individual student.

OFFICE ADMINISTRATION

PREFIX: OA

Instructional staff: C. Miller, E. Miller and D. Wakefield.

OA 141. INTRODUCTORY TYPEWRITING (0)

For students with no previous instruction in typewriting. Basic skills

of typing for personal use, common types of business letters, reports and tabulated materials.

OA 143. ADVANCED TYPEWRITING (2)

Prerequisite: OA 141 or equivalent. Expands typewriting skills and applications, introduces skill-building procedures.

OA 251. INTRODUCTORY SHORTHAND (3)

Prerequisite: OA 141. Introduction to basic skills and vocabulary in Gregg Shorthand.

OA 253. DICTATION AND TRANSCRIPTION (3)

Prerequisite: OA 251 and OA 143 or equivalent of each. Review of basic skills and vocabulary and emphasis on dictation and transcription skills.

OA 351. ADVANCED SHORTHAND (3)

Prerequisite: OA 253 and OA 143 or equivalent of each. Increased dictation speed and the transcription of mailable business correspondence.

OA 353. OFFICE ADMINISTRATION (3)

Function of the business office, including planning for office equipment and supplies, actuating office employees, controlling the work of the office and principles of office organization.

OA 361. BUSINESS MACHINES (2)

Prerequisite: OA 141 or equivalent. Instruction and practice in the use and functions of calculating and secretarial machines in today's business office.

OA 451. BUSINESS COMMUNICATIONS (3)

Psychological principles of business letter writing with emphasis on correct word usage and grammar in business correspondence. Composition of functional business letters.

OA 461. SECRETARIAL PROCEDURES (3)

Prerequisite: OA 351. Development of executive secretarial concepts, instruction and practice in various office duties such as records control, handling mail, arranging itineraries and telephone techniques.

PRODUCTION AND QUANTITATIVE ANALYSIS

PREFIX: PA

This program may not be offered in the 1963-64 academic year.

PA 351. ELECTRONIC DATA PROCESSING I (3)

Electronic data processing machines and their influence on business management, uses of machines and systems design. A computer similar to the IBM 650 will be used.

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PA 421. PRODUCTION MANAGEMENT (3)

Prerequisite: GA 301 and EC 201-202. Principles of management applied to administrative and operating problems in production of goods and services, planning, programming, organizing and controlling volume, quality and cost.

PA 423. PRODUCTION TECHNIQUES (3)

Prerequisite: PA 421 and EC 331. Production techniques including product design, materials, control, plant layout and maintenance, motion and time study, time standards and statistical control of cost, quality and volume.

PA 451. ELECTRONIC DATA PROCESSING II (3)

Prerequisite: PA 351. The philosophy of data processing and an introduction to techniques. Data processing, its organization and appropriateness of talents required.

PA 489. SPECIAL STUDIES IN PRODUCTION MANAGEMENT AND QUANTITATIVE ANALYSIS (3)

Prerequisites: GA 301 and at least two other production courses. Additional study of a specialized or non-specialized nature in students' major. Material for the course is selected and studied in conjunction with a major professor.

PSYCHOLOGY

PREFIX: PC

Instructional staff: P. Givens, chairman; M. Hardy, S. Leonard, D. Long, C. Pinkard, T. Rich and H. Winthrop.

PC 101. INTRODUCTION TO PSYCHOLOGY (3)

Prerequisite: Second trimester standing. A survey of major topics in psychology (learning, perception, thinking, intelligence, etc.), and an introduction to methods used in psychological investigation.

PC 211-212. EXPERIMENTAL DESIGN AND METHODOLOGY (3-3)

Prerequisites: PC 101 and SS 201 (which can be taken as corequisites in Trimester I, 1963). Major research methods in psychology, application of these to problems of psychology. Experiments on problems in the various areas of psychology. Lecture and lab.

PC 231. PSYCHOLOGY OF ADJUSTMENT (3)

Prerequisite: PC 101. Genetic, organic and learned factors involved in the processes of personal adjustment; applications of mental health principles to everyday living.

PC 301. SYSTEMS OF PSYCHOLOGY (3)

Prerequisite: PC 101. The historical roots of modern psychological theories, investigation of the various schools of psychology such as behaviorism, Gestalt psychology, psychoanalysis and phenomenological psychology.

PC 311. MEASUREMENT IN PSYCHOLOGY (3)

Prerequisites: PC 211-212. A consideration of measurement theory and study of tests and other tools of measurement. Lecture and lab.

PC 321. PHYSIOLOGICAL PSYCHOLOGY (3)

Prerequisites: PC 101, recommend PC 211-212. Gross neural and physiological components of behavior. Structure and function of the central and peripheral nervous systems as related to emotion, motivation, learning and theory of brain functions.

PC 323. SENSATION AND PERCEPTION (3)

Prerequisites: PC 101 and PC 321. Psychophysical factors related to sensory and perceptual phenomena. Basic structure and functions of sense organs and associated neural mechanisms. Relationships to basic perceptual phenomena and consideration of some theories of perception.

PC 331. SOCIAL PSYCHOLOGY (3)

Prerequisites: PC 101 or SO 201. Behavior of the individual human being as affected by the social and cultural influences of society.

PC 341. CHILD PSYCHOLOGY (3)

Prerequisites: PC 101 or ED 205. Developmental and psychosocial aspects of childhood, including hereditary, maturational, psychological and social determinants of child behavior.

PC 343. PSYCHOLOGY OF ADOLESCENCE AND ADULTHOOD (3)

Prerequisites: PC 101 or ED 206. Development through the adolescent and adult years, with emphasis on psychosocial problems of those age groups.

PC 431. PERSONALITY THEORY (3)

Prerequisite: PC 101. Methods and findings of personality theories and an evaluation of constitutional, biosocial and psychological determinants of personality.

PC 451. LEARNING PROCESS (3)

Prerequisite: PC 101, recommend PC 211-212. The influences of learning on behavior, using principles derived from learning theories. Lecture and lab.

PC 481. SPECIAL PROBLEMS (3)

Prerequisite: Upper division standing and consent of instructor. A program of independent study of topics in psychology under the supervision of a staff member.

PC 491. SENIOR SEMINAR IN PSYCHOLOGY (3)

Prerequisites: Senior standing and completion of the core program in psychology. Designed to give the advanced undergraduate student an opportunity to integrate concepts within the field of psychology and relate these to other areas of study.

FUNCTIONAL PHYSICAL EDUCATION

PREFIX: PE

Instructional staff: P. Bellak, M. Fernandez, R. Heeschen, G. Hertz, R. Hunter, M. Osborne, S. Prather, R. Wehr and J. Young.

PE 101. FUNCTIONAL PHYSICAL EDUCATION (O)

Prerequisite to all courses except Beginning Swimming. Stresses importance of optimum fitness for daily living and basic instruction in the appreciation of participation sports. Evaluation of physical fitness and motor abilities.

PE 102-129. TEAM SPORTS, CONDITIONING, DANCE, RECREATION (O)

Fundamental experiences in team and group activities. Physical conditioning and self-expression through team competition, rhythmic activities and outdoor education skills.

102 BASKETBALL AND VOLLEYBALL (M) (W)

106 FIELD HOCKEY AND TRACK FIELD (W)

112 SOFTBALL AND VOLLEYBALL (M) (W)

113 SOCCER AND SPEEDBALL (M) (W)

115 SPECIAL CONDITIONING (C)

Adaptive.

116 SPECIAL CONDITIONING (M) (W)

Required of lower 25th percentile on motor fitness.

117 SPECIAL CONDITIONING (M) (W)

Special interest.

119 FOLK AND SQUARE DANCE (C)

Recommended for elementary education majors.

120 MODERN DANCE (INTERMEDIATE-ADVANCED) (C)

Prerequisite: PE 166 or equivalent.

121 TAP DANCE (C)

122 SOCIAL DANCE (C)

123 OUTDOOR EDUCATION (C)

124 RECREATIONAL ACTIVITIES (C)

125 RIFLERY (C)

126 BEGINNING RIDING (C)

129 PROFICIENCY (content to be certified by Physical Education Division)

(C) Co-educational (M) Section for men (W) Section for women

PE 130-149. AQUATIC SPORTS (O)

Essential aquatic skills and knowledges vital to individual and group survival, safety and recreation.

130 BEGINNING SWIMMING (C)

132 INTERMEDIATE SWIMMING (C)

134 ADVANCED SWIMMING (C)

136 LIFE SAVING (C)

138 SCUBA DIVING (C)

140 WATER SAFETY INSTRUCTION (C)

142 SYNCHRONIZED SWIMMING (C)

144 CANOEING AND SAILING (C)

149 PROFICIENCY (content to be certified by Physical Education Division)

PE 150-180. INDIVIDUAL AND DUAL ACTIVITIES (O)

Basic instruction in recreational sports, fundamental sport skills, individual development and acquisition of dance techniques and skills. Development of desirable levels of strength, endurance, agility, balance and poise.

150 ARCHERY (C)

152 BADMINTON (C)

156 BOWLING (C)

158 FENCING (C)

160 GOLF (C)

164 HANDBALL AND PADDLEBALL (C)

166 MODERN DANCE (BEGINNERS) (C)

168 TENNIS (C)

169 WRESTLING (M)

170 GYMNASTICS (C)

138 PHYSICS

178 WEIGHT TRAINING (M)

179 PROFICIENCY (content to be certified by Physical Education Division)

PHYSICS

PREFIX: PH

Instructional staff: G. Forman, chairman; R. Clapp, D. Cooper, H. Kendall, R. Mitchell and R. Sweigert.

Integrated course in Chemistry-Physics listed under CP.

PH 202. GENERAL PHYSICS (4)

Prerequisite: CP 201. Second trimester for science students.

PH 204. LABORATORY FOR PH 202 (1)

Corequisite: PH 202.

The sequence PH 205-207, 206-208 may be taken as alternative to CP 201 and PH 202-204:

PH 205-207. GENERAL PHYSICS (3-1)

Prerequisite: Proficiency test. First half of general physics and lab for science students. Must be taken concurrently.

PH 206-208. GENERAL PHYSICS (3-1)

Prerequisite: PH 205-207. Second half of general physics and lab for science students. Must be taken concurrently.

PH-211. GENERAL PHYSICS (3)

Prerequisites: CP 201; corequisite: MA 203. Second trimester for physics majors and engineering students.

PH 213. LABORATORY FOR PH 211 (1)

Corequisite: PH 211.

PH 212. GENERAL PHYSICS (3)

Prerequisite: PH 211; corequisite: MA 204. Third trimester for physics majors and engineering students.

PH 214. LABORATORY FOR PH 212 (1)

Corequisite: PH 212.

PH 215. MATHEMATICAL ANALYSIS OF PROBLEMS IN MECHANICS AND ELECTRICITY (2)

Prerequisite: PH 202; corequisite: MA 204. A course designed for physics majors and engineering students who have taken a non-calculus, general physics course. Not open to students who take PH 211 and PH 212.

The sequence PH 221-223, 222-224 may be taken as alternative to CP201, PH 211-213, 212-214:

PH 221-223. GENERAL PHYSICS (4-1)

Corequisite: MA 203. First half of general physics and lab for physics majors and engineering students. Must be taken concurrently.

PH 222-224. GENERAL PHYSICS (4-1)

Prerequisite: PH 221-223. Second half of general physics and lab for physics majors and engineering students. Must be taken concurrently.

PH 301. MODERN PHYSICS (3)

Prerequisite: PH 202 or PH 212. Electron dynamics, X-rays, Bohr-Sommerfeld atom and photoelectricity.

PH 305. THERMODYNAMICS (3)

Prerequisite: MA 205 and either prerequisite PH 212 or corequisite PH 215. Heat, the kinetic theory of gases, the laws of thermodynamics and introduction to statistical mechanics.

PH 307. PHYSICAL MECHANICS (3)

Corequisite: MA 205 and either prerequisite PH 212 or corequisite PH 215. Kinematics and dynamics of a particle, of a system of particles and of a solid body.

PH 311. ELECTRICITY AND MAGNETISM (3)

Prerequisite: MA 205 and either prerequisite PH 212 or corequisite PH 215. Electrostatics and electrokinetics, direct and alternating circuits, magnetic fields and magnetic properties of matter.

PH 321. ELECTRONICS (3)

Prerequisite: PH 311. Vacuum and gas-discharge tubes and associated circuits, electron dynamics, thermionic emission, space charge phenomena and electronic circuit analysis.

PH 331. GEOMETRICAL AND PHYSICAL OPTICS (3)

Prerequisite: PH 202 or PH 212; corequisite: MA 204. Wave motion, reflection, refraction, dispersion, emission of spectra, interference, diffraction and polarization.

PH 341. INTERMEDIATE LABORATORY—GENERAL (1)

Corequisite: Physics course of 300 level or above. Experiments related to various areas of physics.

PH 342. INTERMEDIATE LABORATORY—GENERAL (1)

Prerequisite: PH 341. Continuation of PH 341.

PH 401. NUCLEAR PHYSICS (3)

Prerequisite: PH 301 and MA 205. Stable nuclei and isotopes, radioactivity, nuclear reactions, binding energies, fission and fusion.

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PH 411. THEORETICAL PHYSICS (3)

Prerequisite: PH 307, MA 301. Mathematical analysis of the statics and dynamics of particles and rigid bodies, generalized coordinates and elasticity.

PH 421. SOLID STATE PHYSICS (3)

Prerequisite: PH 307, MA 301. Molecular binding, energy bands in solids, electrical, thermal and magnetic properties of solids, semiconductors.

PH 431. ELECTRIC AND MAGNETIC FIELDS AND POTENTIALS (3)

Prerequisite: PH 311, MA 301 and consent of instructor. Maxwell's equations, electromagnetic waves, vector potential.

PH 437. QUANTUM MECHANICS (3)

Prerequisite: PH 307, MA 301 and consent of instructor. De Broglie's wave equation, Heisenberg's uncertainty principle, Schrödinger's equation and the hydrogen atom.

PH 441. ADVANCED LABORATORY—NUCLEAR (1)

Prerequisite: PH 341. Experiments related to nuclear physics.

PH 442. ADVANCED LABORATORY—OPTICS (1)

Prerequisite: PH 341. Experiments related to optical phenomena.

PH 443. ADVANCED LABORATORY—ELECTRICAL (1)

Prerequisite: PH 341. Experiments related to electrical concepts.

PH 481. SENIOR RESEARCH (1 TO 3)

Prerequisite: Senior or advanced junior standing and consent of instructor. Individual experimental work under supervision of instructor.

PH 483. SELECTED TOPICS IN PHYSICS (1 TO 3)

Prerequisite: Senior or advanced junior standing and consent of instructor. Each topic is a course in directed study under the supervision of a faculty member. The following courses are contemplated: electromagnetic theory, gaseous electronics, plasma physics, relativity and atomic and molecular structure.

PH 491. PHYSICS SEMINAR (1 TO 2)

Prerequisite: Senior or advanced junior standing and consent of the instructor.

POLITICAL SCIENCE

PREFIX: PS

Instructional staff: F. Horrigan, chairman; R. Cooper, W. Young.

PS 101. POLITICS IN THE MODERN WORLD (3)

The principles of political science revealed in the operation of the

modern state, both democratic and totalitarian and the role of the citizen in the democratic process.

PS 201. AMERICAN NATIONAL GOVERNMENT (3)

Basic principles and procedures of the American governmental system with emphasis on current issues and trends.

PS 203. STATE AND LOCAL GOVERNMENT (3)

National and state relationships; structure and operation of state government with particular reference to Florida; municipal government.

PS 311. THE GOVERNMENTS OF EUROPE (3)

Prerequisite: PS 101. The governments and politics of Great Britain, France, Germany and the Soviet Union.

PS 319. AMERICAN LEGAL INSTITUTIONS (3)

Analysis of the nature, sources and functions of law, structure of the United States court system; judicial review; the role of the United States Supreme Court.

PS 321. CONSTITUTIONAL LAW (3)

Prerequisite: PS 319. The development of the United States government through judicial interpretation of the Constitution. Case study method of analysis.

PS 323. POLITICAL THEORY (3)

Prerequisite: PS 101 or consent of instructor. Basic philosophical conceptions underlying the democratic system based on writings from the Greeks to the present day.

PS 331. INTERNATIONAL RELATIONS (3)

Contemporary international affairs, including analysis of politics among nations; control of national foreign policies, sovereignty, nationalism and diplomacy; technology, public opinion and war in international relations.

PS 333. INTERNATIONAL ORGANIZATION (3)

The problem of achieving peace through existing international structures, both within and outside the United Nations. The background, achievement and organizational problems of these agencies.

PS 341. POLITICAL PARTIES AND INTEREST GROUPS (3)

Prerequisite: PS 101 or consent of instructor. The development, structure, operation and significance of political parties and interest groups in the American system of government.

PS 343. POLITICAL BEHAVIOR (3)

Prerequisite: PS 101 or consent of instructor. Economic, psychological and social dimensions of political behavior; political participation,

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leadership and elites; political attitudes; voting behavior and decision-making processes.

PS 371. FIELD WORK (3)

Designed for political science majors. Practical participation in a political organization or governmental bureau, observing its operation and making a critical analysis in light of political science principles.

PS 451. PUBLIC ADMINISTRATION (3)

Prerequisite: upper level standing. An examination of the administrative structure and processes by which public policies are implemented in a democratic society. Designed especially for persons planning on public service.

PS 461. POLITICS OF THE DEVELOPING AREAS (3)

Prerequisite: upper level standing. An analysis of the ideologies, governmental structures and political processes of selected nations of the non-Western world.

PS 481. DIRECTED STUDY (3)

Prerequisites: senior standing and consent of instructor. Investigation of some aspect of political science culminating in the preparation of an original research paper.

PS 491. SENIOR SEMINAR (3)

Required of all political science majors. An examination of the content and methods of political science as a social science discipline.

PHILOSOPHY

PREFIX: PY

Instructional staff: M. Hocutt, chairman.

PY 201-202. PROBLEMS OF PHILOSOPHY (6)

An introduction to the major questions of mankind. (What is good? What is real? What is knowledge?) and the different ways of answering these questions.

PY 203. FUNDAMENTALS OF DEDUCTIVE LOGIC (3)

Language analysis and classical and modern formal logic, including the logic of classes and propositions.

PY 204. INTRODUCTION TO SCIENTIFIC METHOD (3)

Probability inference, the hypothetico-deductive method and selected topics in the philosophy of science.

PY 301. ETHICS (3)

The writings of some of the great moral philosophers on the questions "What is good?" and "Can there be a science of good?"

PY 302. AESTHETICS (3)

The nature of beauty and fine art with illustrations from the arts.

PY 303. ANCIENT AND MEDIEVAL PHILOSOPHY (3)

A survey of philosophy from Thales to the medieval writers.

PY 304. RENAISSANCE AND MODERN PHILOSOPHY (3)

A survey of the philosophy from the Renaissance to the modern writers.

PY 305. CONTEMPORARY PHILOSOPHY (3)

Selected schools of Twentieth Century thought such as idealism, positivism, pragmatism, realism and existentialism.

PY 401. SEMINAR IN EPISTEMOLOGY I (3)

Prerequisite: Major in philosophy or psychology and permission of instructor. Theory of perception.

PY 402. SEMINAR IN EPISTEMOLOGY II (3)

Prerequisite: Major in philosophy or psychology and permission of the instructor. The possibility and conditions of knowledge.

PY 403. METAPHYSICS/SENIOR SEMINAR I (3)

Prerequisite: Major in philosophy and permission of the instructor. A consideration of the theory of reality.

PY 404. METAPHYSICS/SENIOR SEMINAR II (3)

Prerequisite: Major in philosophy and permission of the instructor. Theology and cosmology.

PY 405. DIRECTED STUDY (1 TO 3)

Prerequisite: Approval by instructor of the project submitted by student. For majors in philosophy who want to pursue a personal research interest.

ROMANCE LANGUAGES

PREFIX: RL

RL 417. HISTORY OF ROMANCE LANGUAGES (3)

A historical treatment of French, Italian and Spanish beginning with an examination of the Latin base; non-Latin influences; vulgar Latin and its influence; change of forms to the present.

RUSSIAN

PREFIX: RN

Instructional staff: M. Arcibusevas, R. Ekmanis and A. Sokolsky.

Basic courses listed under CB.

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RN 221. SCIENTIFIC RUSSIAN (3)

Primarily for students majoring in science or those desiring help in learning to read texts and research material in a specialized field.

RN 301. ADVANCED COMPOSITION (3)

To improve the student's ability in reading and writing Russian; practice in free and fixed composition.

RN 303. ADVANCED CONVERSATION AND PRONUNCIATION (3)

To develop fluency and correctness in spoken Russian.

RN 305. SURVEY OF RUSSIAN LITERATURE (3)

Main currents of Russian literature from the Eleventh Century through the Eighteenth Century.

RN 306. SURVEY OF RUSSIAN LITERATURE (3)

Main currents of Russian literature of the Nineteenth Century.

RN 307. SURVEY OF RUSSIAN LITERATURE (3)

Main currents of Russian literature from Chekhov to the present.

RN 415. HISTORY OF THE RUSSIAN LANGUAGE (3)

Development of Russian literary language; changes within Russian morphology, syntax and phonetics from the time of the earliest writings to the present. Studies from excerpts of various periods.

RN 431. EIGHTEENTH CENTURY RUSSIAN LITERATURE (3)

Study of outstanding authors of the Eighteenth Century.

RN 441. RUSSIAN DRAMA AND POETRY OF THE NINETEENTH CENTURY (3)

Study of Russian drama and poetry.

RN 451-452. NINETEENTH CENTURY RUSSIAN LITERATURE (6)

Emphasis on the novel and short story. The major writers from Pushkin to Dostoyevsky. Lectures, reading and analysis of important works.

RN 461. RUSSIAN LITERATURE 1880-1917 (3)

The major authors of the Twentieth Century, from Chekhov to Andreyev.

RN 463. RUSSIAN SOVIET LITERATURE (3)

Revolutionary and post-revolutionary Soviet literature including Mayakovsky, Tolstoi, Sholokhov, Fadeev, Simonov and others.

RN 481. DIRECTED STUDY (3)

Specialized individual work in an area not covered by a regular course.

RN 491. SEMINAR IN RUSSIAN LITERATURE (3)

Directed readings in periods, works or genres with individual problems and discussions.

SPEECH**PREFIX: SH**

Instructional staff: J. Popovich, chairman; G. Beauchamp, R. O'Hara, A. Sarett, H. Stelzner, G. Wagner and A. Zaitz.

SH 161. PARLIAMENTARY SPEAKING (1)

Principles of parliamentary procedure and practice in conducting and participating in meetings governed by parliamentary rules.

SH 201. FUNDAMENTALS OF SPEECH (3)

The nature and basic principles of speech; emphasis on improving speaking and listening skills common to all forms of oral communication through a variety of experiences in public discourse.

SH 203. VOICE TRAINING AND PHONETICS (3)

Designed to improve vocal quality and expressiveness, articulation, and pronunciation, and to give instruction and practice in using the International Phonetic Alphabet for speech improvement.

SH 221. FUNDAMENTALS OF ORAL READING (3)

Prerequisite: SH 201 or 203. Designed to develop proficiency in the understanding and oral communication of literary and other written materials.

SH 241. INTRODUCTION TO BROADCASTING (3)

Prerequisite: SH 201 or 203. Introduction to the principles, tools and skills involved in radio and television broadcasting.

SH 321. ORAL INTERPRETATION OF POETRY AND DRAMA (3)

Prerequisite: SH 221 or consent of instructor. Critical appreciation of poetic and dramatic literature and communication of that appreciation to an audience. The presentation of public programs.

SH 343. BROADCAST SPEECH (3)

Prerequisite: SH 203. The development of skills required for effective announcing, acting, newscasting and other speaking before microphone and camera.

SH 345. THE MASS MEDIA AND SOCIETY (3)

The mass communication process and the influence of the mass media on society.

SH 347. RADIO PRODUCTION AND DIRECTION (3)

Prerequisite: SH 241. Radio production and direction, laboratory and broadcasting experience.

SH 351. INTRODUCTION TO AUDIOLOGY AND SPEECH PATHOLOGY (3)

Prerequisite: SH 203 or consent of instructor. The development of speech behavior; the nature, causes and principles of treatment of speech and hearing disorders.

SH 361. GROUP DISCUSSION AND CONFERENCE METHODS (3)

Prerequisite: SH 201 or consent of instructor. Principles and methods of leading and participating in various types of group discussion and conference. Emphasis on reflective thinking and group dynamics.

SH 363. PUBLIC SPEAKING (3)

Prerequisite: SH 201 or consent of instructor. Study of selected public addresses as aids in speaking extemporaneously and from manuscript. The relationship between public speaking and public policy formulation.

SH 365. PUBLIC DISCUSSION AND DEBATE (3)

Prerequisite: SH 201 or consent of instructor. Investigation, evidence, logical argument, and effective organization and presentation in dealing with public questions through panel discussions, symposia, forums and debate.

SH 367. FORMS OF PUBLIC ADDRESS (3)

Prerequisite: SH 363 or 365. An advanced course emphasizing arrangement and style in informative, persuasive and ceremonial public address.

SH 411. ADVANCED PHONETICS (3)

Prerequisite: SH 203. The theoretical and analytical bases of the recognition, production and transcription of the sounds of English using the International Phonetic Alphabet. Attention to foreign and American regional dialects.

SH 441. TELEVISION PRODUCTION AND DIRECTION (3)

Prerequisite: SH 241. An introductory course in the techniques of producing and directing television programs.

SH 442. ADVANCED TELEVISION PRODUCTION AND DIRECTION (3)

Prerequisite: SH 441. Intensive study and practice of the techniques of television production and direction, with emphasis on both creative and administrative aspects.

SH 461. ARGUMENTATION AND PERSUASION (3)

Prerequisite: SH 365 or 367. Advanced study of the logical and psychological factors involved in changing the beliefs and behavior of audiences. Rhetorical analysis of public addresses, practice in speech composition and delivery.

SH 465. HISTORY AND CRITICISM OF PUBLIC ADDRESS (3)

Prerequisite: SH 363 or consent of instructor. The principles of rhetorical criticism applied to selected great speeches of Western civilization.

SH 481. DIRECTED STUDIES (3)

Prerequisite: At least junior standing. Directed study in the theory and practice of oral discourse, with attention to the individual student's needs and interests.

SH 491. SENIOR SEMINAR: PROBLEMS IN ORAL COMMUNICATION (3)

Prerequisite: Senior standing. Exploration of problems in all aspects of speaking and listening. Open to non-majors by consent of the speech faculty. May be repeated once for credit.

SOCIOLOGY

PREFIX: SO

Instructional staff: D. Allen, chairman; V. Edmond.

SO 201. INTRODUCTION TO SOCIOLOGY (3)

The structure and functioning of contemporary society, social institutions and associations, social processes, social change and the relationship of society to the individual.

SO 211. MARRIAGE AND THE FAMILY (3)

Structure and function of the modern family. Social, cultural and legal factors related to success and failure in mate selection and marriage.

SO 221. SOCIAL ORGANIZATION (3)

Prerequisite: SO 201 or CB 104 or permission of instructor. Social organization in the broadest sense, including institutions and associations, as well as variations in role and status—emphasizes present American society.

SO 231. SOCIAL PROBLEMS (3)

Descriptive and analytical consideration of major social problems affecting individuals and groups in modern industrial societies, with emphasis on American society.

SO 311. RACIAL AND ETHNIC RELATIONS (3)

Comparative study of interracial relations, social tensions, attitudes and modes of adjustment.

SO 323. SOCIAL STRATIFICATION (3)

Prerequisite: SO 201 or CB 104 or permission of instructor. Social status and social stratification in the United States and Western European societies. Social class as a factor in behavior. Social mobility.

SO 331. SOCIAL PSYCHOLOGY (3)

Prerequisite: SO 201 or CB 103, or permission of instructor. (See also PC 331. Credit may not be earned for both.) Behavior of the individual human being as affected by social and cultural influences of modern society.

SO 333. CRIMINOLOGY (3)

Etiology of criminal behavior. Law and law enforcement. Crime in the United States, penology and crime prevention.

SO 343. COLLECTIVE BEHAVIOR (3)

Prerequisite: SO 201 or CB 104. A study of the spontaneous development of new forms of group and mass behavior—crowds, social movements and diffuse mass behavior.

SO 355. URBAN SOCIOLOGY (3)

Prerequisite: SO 201 or CB 104 or permission of instructor. The city in modern industrial societies; urban social institutions and processes; sociology in city planning.

SO 361. SOCIAL INVESTIGATION (3)

Prerequisite: SO 201 or CB 104 or permission of instructor. Methods and techniques of social research. Design of sociological studies, collection of data, analysis and interpretation of results.

SO 363. POPULATION POLICY AND ANALYSIS (3)

Problems of population control; national and worldwide population trends and characteristics.

SO 403. SOCIAL THOUGHT AND SOCIOLOGICAL THEORY (3)

Prerequisite: SO 201 or permission of instructor. Historical development of significant social thought. Consideration of selected systematic theories of sociology.

SO 441. SOCIAL CHANGE (3)

Prerequisite: SO 201 or CB 104 or permission of instructor. Major theories of social and cultural change, processes and mechanisms of change in preliterate, modern underdeveloped and advanced industrial societies.

SO 453. SOCIOLOGY OF RELIGION (3)

Prerequisite: Upper division standing. Types, sources and functions of religious behavior. Religious behavior of individuals and groups in relation to other aspects of personality and culture.

SO 481. SPECIAL PROBLEMS (3)

Prerequisite: Twelve credits in sociology. Content and method dependent on interests and competence of the student.

SO 491. SENIOR SEMINAR (3)

For seniors majoring in sociology or other social science. Major issues in sociology, stressing theory and research.

SPANISH**PREFIX: SP**

Instructional staff: R. Davison, L. Fonseca, E. McLean, C. Micarelli and L. Sand.

Basic courses listed under CB.

SP 301. ADVANCED SPANISH COMPOSITION AND GRAMMAR (3)

To improve student's ability in writing Spanish, to increase his accuracy in comprehension and use of the grammatical elements; practice in both free and fixed composition.

SP 303. ADVANCED SPANISH CONVERSATION AND PRONUNCIATION (3)

To develop fluency and correctness in spoken Spanish for non-native speakers.

SP 305. SURVEY OF SPANISH LITERATURE (3)

Main currents of Spanish literature from the Twelfth Century through the Sixteenth Century.

SP 306. SURVEY OF SPANISH LITERATURE (3)

Main currents of Spanish literature of the Seventeenth and Eighteenth Centuries.

SP 307. SURVEY OF SPANISH LITERATURE (3)

Main currents of Spanish literature of the Nineteenth and Twentieth Centuries.

SP 309. COMMERCIAL CORRESPONDENCE (2)

Forms and techniques of business letter writing in Spanish with practical studies of commerce between the United States and Latin America.

SP 311. LATIN-AMERICAN PERIODICALS (3)

Politics, economics and literature from readings in current Latin-American periodicals.

SP 313-314. SURVEY OF LATIN-AMERICAN LITERATURE (6)

Historical, political and cultural background of Latin-America from the Fifteenth Century to the present day.

History of Romance Languages listed under RL.

SP 401. MIDDLE-AGES AND RENAISSANCE (3)

Spanish literature from its beginnings through the immediate predecessors of Lope de Vega.

150 SOCIAL SCIENCES

SP 423-424. GOLDEN AGE LITERATURE (6)

Development of major genres of Sixteenth and Seventeenth Centuries with emphasis on drama, poetry and picaresque novel.

SP 425. CERVANTES (3)

Life and works of Cervantes including his Entremeses, Novelas, Ejemplares and the structure, content and influence of the Don Quixote.

SP 441-442. NINETEENTH CENTURY SPANISH LITERATURE (6)

The Romantic movement, the Costumbrista, Realistic and Naturalistic movements.

SP 445. GENERATION OF 1898 (3)

Historical background of the period; development of literary genres and analyses of themes treated; specific study of the more important writers.

SP 451. TWENTIETH CENTURY SPANISH LITERATURE (3)

Drama, poetry and prose since the generation of 1898.

SP 481. DIRECTED STUDY (3)

Specialized individual work in an area not covered by a regular course.

SP 491. SENIOR SEMINAR (3)

Study in depth of a specific writer or literary movement as chosen by the instructor. Individual research required of students.

INTRA-DIVISIONAL SOCIAL SCIENCES

PREFIX: SS

Instructional staff: J. Adams, C. Arnade, R. Decker, F. Horrigan, H. Winthrop and P. Wright.

SS 201. SOCIAL SCIENCE STATISTICS (3)

Topics selected from the following: measures of central tendency and variability, probability and the normal curve, correlation, curve fitting, scale and index number theory, polling, interview and survey techniques, content analysis.

SS 311. COMMUNICATION (3)

The theories, modes and processes of communication, its history as an instrument of social change and its role in human behavior.

SS 315. PUBLIC OPINION AND PRESSURE MECHANISM (3)

The content and formation of public opinion, properties of opinions and attitudes and the principles and mechanisms of their formation and change.

SS 321. HUMAN RELATIONS AND PRODUCTIVITY (3)

The elements of industrial psychology, organization theory, automation and psychological problems of labor and management, analysis of consumer habits, the influence of changing business practices on psychological problems of mass culture, the use of leisure and social status.

SS 325. PSYCHOLOGY AND THE SOCIAL ORDER (3)

Psychological roots of cultural and social ways of life, the quest for personal identity in modern mass society, political and industrial behavior, national character and international conflict.

SS 341. LATIN AMERICA (3)

The development of Latin American cultures and peoples emphasizing current problems. Several countries are discussed in detail.

SS 343. ASIA (3)

A case study of an Asian region showing its historical and cultural roots and the transformation now occurring in its political, social and international relations.

SS 345. AFRICA (3)

A case study of an African region showing its historical and cultural roots and the transformation now occurring in its political, social and international relations.

SS 347. THE MIDDLE EAST (3)

A case study of a Middle Eastern region showing its historical and cultural roots and the transformation now occurring in its political, social and international relations.

SS 361. COMMUNISM IN THE MODERN WORLD (3)

Strategy and tactics of world communism, its program and techniques. Nature of the economy and politics of Soviet and Chinese Communism.

SS 411. SOCIAL ISSUES OF OUR TIME (3)

An examination of some of the major contemporary social issues, such as freedom versus authority, modern dilemmas for democracy, human problems of an industrial civilization, implications of changing social patterns of Western culture and opportunities for social reconstruction.

SS 415. COMMUNITY PLANNING (3)

Theory and practice of planning for the orderly development and growth of communities to achieve optimal utilization of natural and human resources, sociological, geographic, political, psychological, economic, financial and legal aspects of planning.

SS 449. THE EMERGING NATIONS (3)

Prerequisites: One of the following: SS 341, 343, 345, 347. This course

examines the processes and problems involved when a retarded country seeks to develop a modern industrial civilization.

THEATRE ARTS

PREFIX: TA

Instructional staff: R. Whaley, chairman; J. Clay, E. Hirshberg.

TA 101. INTRODUCTION TO THEATRE ARTS (3)

Initial work in play analysis, pantomime, acting, scenic design and construction, lighting, costume, make-up, directing and management.

TA 111. PANTOMIME (3)

A performance course investigating the nature of stage action: the actor's inner creative state and the physical means by which he expresses himself.

TA 221. STAGECRAFT (3)

Basic design practice, color and drafting as applied to stage and television settings. Practical exercises in construction, painting and mounting of scenery, with participation in performance productions.

TA 311. ACTING (3)

Prerequisite: TA 111. Exercises in external techniques of line reading, timing of speech and movement, song selling and comedy. Analysis and building of stage characters in plays of a selected dramatist.

TA 312. DIRECTING (3)

Prerequisite: TA 311. Staging the play, including script analysis and breakdown, business, composition, movement, rhythm, rehearsal procedures and general organization. Lecture-lab using illustrative exercises and scene work.

TA 313. PERFORMANCE PRODUCTION (3)

Prerequisite: TA 311, 312. Actual production work in which members of the class each direct a one-act play for public performance. Directors will be given a production budget and teamed with a designer from TA 323.

TA 321. SCENERY AND PROPERTIES (3)

Prerequisite: TA 221. The aesthetics and theories of scenic design with a historical study of the development of the physical theatre and scenery, interior decor and furnishings. Practical design problems.

TA 322. COSTUME AND LIGHTING (3)

Aesthetics, design and techniques of stage lighting as applied to scenery and costumes. A history of fashion of the Western world and its interpretation as costume for the stage.

TA 323. TECHNICAL PRODUCTION (3)

Prerequisite: TA 321, 322. Actual production work in which class members design scenery, costumes, properties and lighting for a one-act play and execute these designs for public performance, teamed with a director from TA 313.

TA 331. THEATRE LITERATURE OF MYTH AND RITUAL (3)

Development of dramatic form as it emerged from Greek and Medieval religious rites; concentration on plays of Aeschylus, Sophocles, Euripides, Aristophanes, Menander and the English miracle, mystery and morality plays.

TA 333. LITERATURE OF THE RENAISSANCE THEATRE (3)

Historical study of Renaissance drama; readings from the plays of Machiavelli, Goldoni, Lope de Vega, Calderon, Marlowe, Jonson, Corneille, Moliere and Racine.

TA 335. LITERATURE OF THE EIGHTEENTH AND NINETEENTH CENTURIES (3)

Selected plays from the Eighteenth and Nineteenth Centuries including works of Dryden, Etherege, Wycherley, Congrede, Gay, Goldsmith, Sheridan, Goethe, Schiller, Hugo, Scribe, Tyler and Dunlap.

TA 337. LITERATURE OF THE MODERN AND CONTEMPORARY THEATRE (3)

Readings of contemporary American, British and Continental drama from Ibsen to Ionesco.

TA 351. THEATRE-MANAGEMENT (3)

A study of theatre operation with special emphasis on box office management, production costs, contracts and public relations.

TA 401. DRAMATIC CRITICISM (3)

A study of the aesthetics of drama in performance including basic critical writings from Aristotle to the present.

TA 481. DIRECTED STUDIES (1 TO 6)

Independent studies in the various areas of Theatre Arts. Application to do work in directed studies must be made, and a course of study with the number of credit hours to be allowed will be assigned prior to registration.

WORK-STUDY

PREFIX: WS

WS 071. WORK-STUDY FIRST WORK PERIOD (0)

Prerequisite: 24 hours of academic credit, acceptance in Work-Study Cooperative Program.

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WS 171. WORK-STUDY SECOND WORK PERIOD (0)

Prerequisite: WS 071.

WS 271. WORK-STUDY THIRD WORK PERIOD (0)

Prerequisite: WS 171.

WS 371. WORK-STUDY FOURTH WORK PERIOD (0)

Prerequisite: WS 271.

WS 471. WORK-STUDY FIFTH WORK PERIOD (0)

Prerequisite: WS 371.

ZOOLOGY

PREFIX: ZO

Instructional staff: J. Krivanek, chairman; C. Cole, F. Friedl, T. Helvey, A. Meyerriecks, G. Robinson, G. Woolfenden.

Integrated courses in botany-zoology listed under BZ.

ZO 202. ANIMAL KINGDOM (4)

Prerequisite: BZ 201. A phylogenetic approach to the major animal groups. Lecture, lab.

ZO 271. HUMAN ANATOMY AND PHYSIOLOGY (4)

Prerequisites: CB 106 or BZ 201. The structure and function of the human body. Lecture, lab.

ZO 311. COMPARATIVE VERTEBRATE ANATOMY (4)

Prerequisite: ZO 202. Anatomy of selected vertebrate types emphasizing evolutionary trends. Lecture, lab.

ZO 312. COMPARATIVE EMBRYOLOGY (4)

Prerequisites: ZO 202; ZO 311 strongly recommended. A comparative study of developmental processes among selected invertebrates and vertebrates with emphasis on experimental approaches. Lecture, lab.

ZO 313. PARASITOLOGY (4)

Prerequisite: ZO 202. Fundamentals of animal parasitology and parasitism; biology of selected animal parasites including those of major importance to man. Lecture, lab.

ZO 321. ANIMAL PHYSIOLOGY (4)

Prerequisites: ZO 202, CH 331 or CH 231. Introduction to physiology and biochemistry of selected invertebrate and vertebrate types. Lecture, lab.

ZO 346. ANIMAL ECOLOGY (2)

Prerequisite: BZ 345. Field studies of Florida animal populations applying fundamental ecological principles.

ZO 411. INVERTEBRATE ZOOLOGY (4)

Prerequisite: Consent of instructor. Natural history of selected invertebrates. Lecture, lab.

ZO 415. VERTEBRATE ZOOLOGY (4)

Prerequisite: Consent of instructor. Natural history of selected vertebrates. Lecture, lab.

ZO 461. ANIMAL BEHAVIOR (4)

Prerequisite: Consent of instructor. Introduction to principles and practices of comparative animal behavior (ethology). Examples for lectures and laboratories drawn from selected local invertebrate and vertebrate groups. Lecture, lab.

ZO 481. SENIOR RESEARCH IN ZOOLOGY (1 TO 3)

Prerequisite: Senior standing or junior standing with consent of instructor. Individual investigations with faculty supervision.

ZO 483. SELECTED TOPICS IN ZOOLOGY (1 TO 2)

Prerequisite: Consent of instructor. Each topic is a program in directed study under supervision of a faculty member.

ZO 491. SEMINAR IN ZOOLOGY (1)

Prerequisite: Senior or advanced junior standing or consent of instructor. May be repeated once.

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