

UNDERGRADUATE CATALOG

With respect to the admission and education of students, with respect to the employment and promotion of teaching and non-teaching personnel, with respect to student and faculty activities conducted on premises owned or occupied by any component institution of The University of Texas System, and with respect to student and faculty housing situated on premises so owned or occupied, neither The University of Texas System nor any of its component institutions will discriminate either in favor of or against any person on account of his or her race, creed, color, or sex.

THE UNIVERSITY OF TEXAS AT SAN ANTONIO BULLETIN
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Education is not just a luxury permitting some men an advantage over others. It has become a necessity without which a person is defenseless in this complex, industrial society. We have truly entered the century of the educated man.

LYNDON B. JOHNSON

En el perenne certamen que determina cuáles serán los *escogidos* en el número de los *llamados*, ya que no hay espacio para todos, prevalece la mayor adecuación o mayor fuerza: triunfa y se impone la superioridad; pero esto solo no da satisfacción a la justicia, pues aún falta contar aquellos que no son ni de los *escogidos* ni de los *llamados*: los que no pueden llegar a la arena del certamen, porque viven en tales condiciones que se ignoran a sí mismos o no les es lícito aplicarse a sacar el oro de su mina; y entre estos ¡ay! ¿quién sabe si alguna vez no están los primeros y mejores?

JOSÉ ENRIQUE RODÓ

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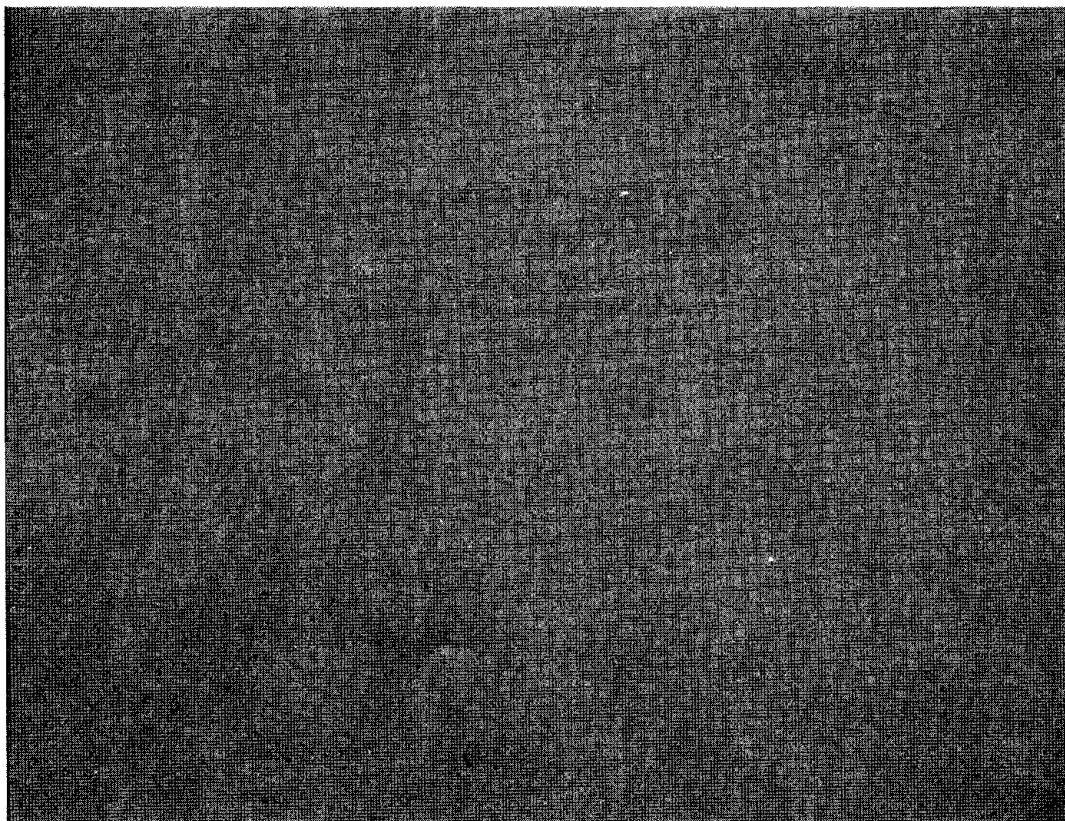
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I. General Information



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William D. Litzinger	Division of Management

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Gordon Lamb	Division of Music

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Ricardo F. Benavides	Division of Foreign Languages
Thomas C. Greaves	Division of Social Sciences

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Robert T. Alciatore	Division of Education
Chia Shun Shih	Division of Environmental Studies

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B. S. Thyagarajan	Division of Earth and Physical Sciences
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History

On June 5, 1969, the legislative act creating The University of Texas at San Antonio as a component institution of The University of Texas System was signed into law by the Governor. By this legislation directing that The University of Texas at San Antonio offer "courses leading to such customary degrees as are offered at leading American universities," the Legislature of the State of Texas established a new public institution of higher learning that would serve both undergraduate (lower and upper division) and graduate students. The legislation further stipulated that The University be "one of the first class."

In May, 1970, the Board of Regents of The University of Texas System accepted a gift of approximately 600 acres of wooded land located sixteen miles northwest of the center of San Antonio to serve as the permanent site for The University of Texas at San Antonio campus. Shortly thereafter administrative and planning offices were established in the former Maison Blanche building on the grounds of HemisFair Plaza.

By the end of 1970, a master conceptual plan for the permanent campus was approved by the Board of Regents, and by June, 1971, final plans and specifications for the first seven permanent buildings of the campus were completed. After completion of site improvement work, construction contracts were awarded in May, 1972, calling for a completion date of May, 1974, subsequently revised because of construction delays.

In January, 1972, temporary classrooms and offices were acquired in northwest San Antonio in the Koger Executive Center at the intersection of Loop 410 and Babcock Road. These facilities will be occupied by The University until completion of the new campus.

In the spring of 1972 the Board of Regents of The University of Texas System and the Coordinating Board, Texas College and University System, gave approval to UT San Antonio's academic organization of five Colleges with seventeen Divisions and to its proposed forty-two degree programs.

Subsequently the College of Multidisciplinary Studies and the College of Sciences and Mathematics were reorganized, so that the five Colleges of The University currently are composed of 14 Divisions. UT San Antonio also has a Division of Continuing Education.

Purpose and Philosophy

The major purpose of The University of Texas at San Antonio is to respond, in a climate of intellectual freedom and with academic programs of the highest quality, to the educational needs of its multiple constituencies. These include its students and faculty, the multicultural community of metropolitan San Antonio and the South Texas region, the State of Texas, the nation, and the international community. The University is committed to excellence in teaching and scholarship and to flexibility in academic programs and instructional approaches, as it seeks to guide individual students toward achievement of their maximum potential.

Through programs of a multidisciplinary character, UT San Antonio strives to eliminate the isolation of disciplines and to reflect the integrated nature of societal issues and problems. To achieve this goal, The University anticipates close collaboration with the other two component institutions of the UT System located in San Antonio, the Health Science Center (composed of the Medical School, the Dental School, the Graduate School of Biomedical Sciences, the School of Allied Health Sciences) and The University of Texas School of Nursing at San Antonio (a branch of The UT System School of Nursing).

For the added benefit of students, faculty, and community, UT San Antonio is committed to cooperative planning with all institutions of higher education in San Antonio and the surrounding region. The University is committed also to cooperate with the San Antonio community to improve accessibility to library resources; provide internships with local professions and businesses; offer continuing education institutes, seminars, and special activities; and utilize local, non-university personnel of special talents and abilities to enrich classroom instruction.

Providing intellectual, cultural, and economic opportunities to its multiple constituencies is the mission of The University of Texas at San Antonio.

Organization

The University of Texas at San Antonio is a component institution of The University of Texas System. Its government is ves-

ted in the nine-member Board of Regents of The University of Texas System. Members are appointed by the Governor, with approval of the Senate, for six-year staggered terms with three terms expiring every two years.

The Board of Regents delegates administrative authority to the Chancellor of The University of Texas System. The administrative authority and responsibility for each component institution, such as The University of Texas at San Antonio, is in turn delegated to the President of that component.

The President at UT San Antonio is assisted by a staff including an Executive Vice President, a Vice President for Academic Affairs, and a Vice President for Business Affairs. The Executive Vice President provides the President with advice and counsel on all phases of University operations. He represents and acts for the President when the latter is unable to be present. The Vice President for Academic Affairs provides the President with advice and counsel on academic matters and acts as liaison between the President's Office and the several Deans as well as with faculty committees concerned with academic affairs. This officer is responsible for coordination of graduate education and chairs the Council on Graduate Education. The Vice President for Business Affairs provides the President with advice and counsel on fiscal affairs and has direct responsibility for the business operation of The University including operation of the physical plant. This officer is responsible for budget preparation and analysis.

Operational administration of the graduate and undergraduate programs of The University is the responsibility of the Deans of the five Colleges. The Deans report directly to the President. They provide leadership in program, faculty, and staff development.

Instructional programs within the Colleges are organized by Divisions, headed by Division Directors, who have responsibility under the Dean for the operation of their Divisions. Division Directors also are expected to provide leadership in faculty and staff development and in academic program development.

Continuing Education activities of The University are located in the Division of Continuing Education. The Division is administered by a Dean who reports directly to the President and who is responsible for developing and operating all continuing education activities.

The Division develops, promotes, coordinates, evaluates, and provides financial and logistical support for conferences, institutes, short courses, workshops, seminars, and special training programs.

The Division has no permanently assigned faculty. Instructors for the various activities are selected from one or more of the five Colleges within The University of Texas at San Antonio, or from institutions or organizations outside The University.

Accreditation

On July 1, 1973, The University of Texas at San Antonio was classified by the Southern Association of Colleges and Schools as a Candidate for Accreditation. This classification was confirmed by the Southern Association at its annual meeting on December 13, 1973. In October, 1974, The University will be visited by a committee representing the Southern Association in anticipation of granting full accreditation to UT San Antonio graduate programs. With the current classification by the Southern Association, credits from UT San Antonio will be readily transferable to other colleges and universities.

The Library

The University of Texas at San Antonio Library has undergone rapid development and expansion since 1972, when work began on the development of collections. As of Fall, 1974, the collections in the library numbered 205,000 volumes of processed materials. The Library subscribes to approximately 2,000 periodicals and receives as a designated depository a wide variety of federal, state, and local documents. In addition, the Library has extensive holdings in microform of government documents, research reports, and newspapers. All materials have been selected to support the teaching and research needs of U.T. San Antonio.

The library building, scheduled for completion in late 1975, is designed to offer full services and convenience to students and faculty. The majority of books and periodicals will be on open shelves for browsing and ease of access. In addition to the traditional library facilities, the U.T. San Antonio Library will also

have full audio-visual capability and music listening facilities. Carrels, group study rooms, lounges, and faculty studies are conveniently located throughout the building to provide ideal study conditions. A required freshman course will orient students in the use of libraries in general and UT San Antonio's Library in particular. A staff of highly qualified subject-specialist librarians is available for consultation and assistance.

The U.T. San Antonio special collections and rare books focus on Western Americana and on Texana. A truly distinguished collection of books and documents for research in the period of the Texas Republic has been made available through the generosity of John Peace, former Chairman of the UT System Board of Regents. The Ewing Halsell Foundation provided funds for purchase of the Morris Cook J. Frank Dobie Collection. The library has also acquired a large collection of Western Americana from R. W. Warden of Montana. In addition, the Library holds the architecture collection of Ralph H. Cameron and the Bible collection of Harry and Alma Dietert.

UT San Antonio is a participant in the Regional Historical Depository Program sponsored by the Texas State Library. This archive will preserve and make available to researchers a wide variety of public and private documents from a 22-county region surrounding San Antonio. The archive is housed at the Institute of Texan Cultures on the HemisFair Plaza.

The Computer Center

The Computer Center provides modern computational facilities for research and academic programs. A small timesharing computer system is available for student and faculty use. This computer may be expanded in capability, however, through communication with large scale computers, such as those at The University of Texas at Austin. UT San Antonio will participate later in a regional computer center, which will house a large-scale computer complex with a variety of capabilities and equipment.

The Lutcher Center

The Lutcher Center is a conference facility of The University of Texas System. Responsibility for administration and supervision of the Lutcher Center is assigned to the President of The University of Texas at San Antonio.

The Lutcher Center is intended to support the administrative and developmental programs of The University of Texas System and its component institutions. It also provides space, facilities, services and a suitable environment for educational, educationally-related and public service programs of component units of The University of Texas System. The Center may also be used by other public and private educational institutions and by groups engaged in public service.

The Institute of Texan Cultures

The Institute, transferred to UT San Antonio following the closing of HemisFair, collects, displays, and distributes materials on the history of Texas. It is an educational and research arm of UT San Antonio providing state-wide coverage of Texas history through films, filmstrips, slide shows, and publications. Traveling exhibits are used in public schools, colleges, and universities throughout the State.

Offices and classrooms of the Division of Continuing Education are located in the Institute.

The Center for Studies in Business, Economics, and Human Resources

The Center for Studies in Business, Economics, and Human Resources is the research center of the College of Business. The major objective of the Center is to provide students and faculty of The University with an adequate environment for problem solving and community-related research. While the Center is an integral part of the College of Business, it effectively interacts with the faculty of all the other colleges to provide a truly interdisciplinary approach to research and business education.

The focus of activity at the Center is on rigorous application of theories and research techniques to produce useful information

for public and private decision making. Three major approaches are utilized at the Center to attain this objective. Specialized data files are maintained on a continuing basis, while a research library and information systems guide interested users to sources of information. The knowledge and experience of The University's faculty are utilized to solve specific problems in the broad categories of management, finance, administration, planning, economic feasibility, production, economic impact, anti-trust laws and procedures, international trade, environmental protection, and manpower utilization. Graduate students have the opportunity of applying research methods through research assistantships, and fruitful discourse between academicians, specialists, community leaders, and students is enhanced through conferences and seminars which bring well-known scholars and professionals to San Antonio.

The UT San Antonio Bookstore

The UT San Antonio Bookstore, owned and operated by The University, maintains an on-campus store. All official textbooks are kept in stock. With the opening of the entire campus, the store will be located on the first level of the Science-Education Building adjacent to the student lounge. At that time, equipment, supplies, sundries, and other items will be available.

Calendar

The University of Texas at San Antonio operates on the semester system in accordance with the standard calendar of state-supported institutions of higher education in Texas. An academic year consists of two semesters with beginning and ending dates as specified below. Two summer sessions are also conducted, with credit awarded in semester hours.

Fall Semester, 1975

August 25-29	Monday-Friday. Registration, Orientation, Advisement.*
September 2	Tuesday. Classes begin.
September 8	Monday. Last day to drop a course without a grade. Last day to add a class without special permission. Last day for late registration. Deadline for Fall, 1975, graduates to apply for graduation.
September 15	Monday. Last day to add a class.
September 26	Friday. Last day for students to withdraw and receive a partial refund of tuition and fees.
November 24	Monday. Last day to drop a course.
November 27-30	Thursday-Saturday. Thanksgiving Holidays.
December 15-20	Monday-Saturday. Final examinations.
December 20	Saturday. Semester closes.

Spring Semester, 1976

January 12-16	Monday-Friday. Registration, Orientation, Advisement.*
January 19	Monday. Classes begin.
January 24	Saturday. Last day to drop a course without a grade. Last day to add a class without special permission. Last day for late registration. Last day for Spring, 1976, graduates to apply for graduation.
January 31	Saturday. Last day to add a class.
February 13	Friday. Last day for students to withdraw and receive a partial refund of tuition and fees.

*A more detailed calendar for registration, orientation, and advisement will be issued by the Registrar.

April 5-10	Monday-Saturday. Spring vacation.
April 19	Monday. Last day to drop a course.
May 10-15	Monday-Saturday. Final examinations.
May 15	Saturday. Semester closes.
May 16	Sunday. Commencement.

Summer Session, 1976

First Session

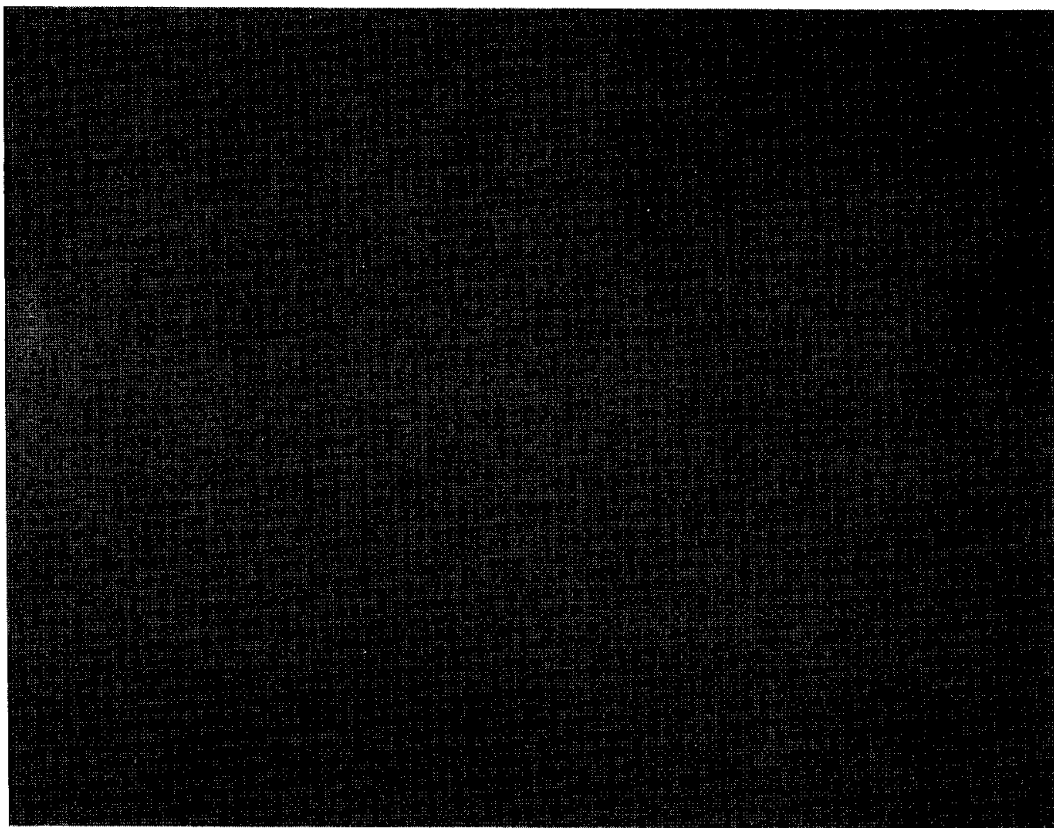
May 31-June 1	Monday-Tuesday. Registration, Orientation, Advisement.*
June 2	Wednesday. Classes begin.
June 3	Thursday. Last day to drop a course without a grade. Last day to add a class without special permission. Last day for late registration.
June 7	Monday. Last day to add a class.
June 9	Wednesday. Last day for students to withdraw and receive a partial refund of tuition and fees.
June 24	Thursday. Last day to drop a course.
July 8-9	Thursday-Friday. Final examinations.
July 9	Friday. End of first summer session.

Second Session

July 12	Monday. Registration, Orientation, Advisement.*
July 13	Tuesday. Classes begin.
July 14	Wednesday. Last day to drop a course without a grade. Last day to add a class without special permission. Last day for late registration. Deadline for Summer 1976, graduates to apply for graduation.
July 16	Friday. Last day to add a course.
July 20	Tuesday. Last day for students to withdraw and receive a partial refund of tuition and fees.
August 5	Thursday. Last day to drop a course.
August 19-20	Thursday-Friday. Final examinations.
August 20	Friday. End of second summer session.

*A more detailed calendar for registration, orientation, and advisement will be issued by the Registrar.

II. Tuition, Fees, Charges, Penalties and Deposits



Introduction

Students are not entitled to enter class or laboratory until their tuition, fees, and deposits have been paid.* Payment may be made by personal check for the exact amount due, provided the bank transit number is encoded thereon in compliance with revised Federal Reserve Bank regulations. Checks for larger amounts, the difference to be paid in cash to the student, cannot be accepted. In paying by check, students should exercise care. A bad check, whether given by mistake or otherwise, unless the admitted error of the bank concerned, is likely to delay actual payment and thus result in a penalty as outlined in the section on Bad Check Charges.

The University does not maintain a check cashing service for students. It is recommended that students establish checking accounts in local San Antonio banks before enrolling in order that they can easily cash checks in the city. Many local merchants will not cash out-of-town checks.

Tuition

Pursuant to Subchapter B, Chapter 54, Texas Education Code, tuition for all students registered at UT San Antonio will be as follows:

Residents of Texas pay tuition at the rate of \$4.00 per semester hour of credit; a minimum tuition of \$50.00 per semester and a minimum of \$25.00 for each summer session.

Nonresidents (U.S. Citizens). Nonresidents who are citizens of the United States will be charged tuition at the rate of \$40.00 per semester hour of credit for which they are enrolled.

Foreign Students will be charged tuition at the rate of \$14.00 per semester hour of credit for which they are enrolled with a minimum of \$200.00 per semester; a minimum of \$100.00 for each summer session.

*All tuition charges and fees are subject to change without notice.

Residence Regulations

A student entering The University of Texas at San Antonio for the first time, or a student re-entering The University after an absence of more than one semester, must file a completed residence questionnaire. The student's status as a resident or non-resident will be made in accordance with Subchapter B, Chapter 54, of the Texas Education Code.* If the applicant is in any doubt about his status, he should consult the Director of Admissions and Registrar prior to registration. Students who are legally classified as nonresidents of Texas must be prepared to pay the required tuition at the time of registration. There can be no change in residence classification except under the express authorization of the Registrar.

Penalty for Payment of Tuition Under Incorrect Residence Classification

Responsibility for registering under the proper residence classification rests with the student. A student who wrongly pays the Texas, rather than the nonresident, tuition is subject to a penalty of \$10.00 for each registration under incorrect residence classification. In addition, if a student has obtained residence classification by virtue of deliberate concealment or misrepresentation of facts, he may be subject to disciplinary action.

Required Student Service Fee

The amount charged is \$2.00 per semester hour for each regular semester (maximum of \$30.00 per semester) and \$1.00 per semester hour for each summer session. The fee covers maintenance and operation of a first aid room and limited emergency medical care, initial issuance of a student identification card, free or reduced admission fees to special lecture series, cultural events, film series and other special activities and/or services which may be provided for students.

Refund of student service fees is made on the same basis as refund of tuition.

*A detailed description of the residence regulations is offered in the Appendix of this catalog.

Degree Application Fee

An \$8.00 application fee is required of candidates for a degree. Application for a degree must be made at the Registrar's Office and the fee paid no later than the end of the add/drop period of the term (Fall, Spring, or Second Summer Session) in which the student plans to graduate. This fee must be paid each time an application for a degree is filed and is not refundable.

Veterans attending The University under an exemption, as mentioned below, are not exempt from payment of this fee.

Late Registration Fee

A late registration fee of \$5.00 will be charged for the first day of late registration and an additional \$2.50 per day thereafter with the maximum amount being \$15.00 for any one semester. This fee may be waived only in extenuating circumstances by the President or his delegate. The late registration fee is not refundable.

Challenging Courses by Examination Fee

A fee of \$15.00 per examination will be required of students who challenge UT San Antonio courses. Procedures for challenging courses by examination are set forth in the Credit by Examination section.

Bad Check Charge

A charge of \$5.00 will be assessed for each returned check to offset the cost of handling dishonored checks.

Replacement of Student Identification Card Charge

A charge of \$2.00 will be assessed for the issuance of a duplicate student identification card. This charge must be paid at the time the application for the duplicate is made.

Transcript Charge

A charge of \$1.00 per UT San Antonio transcript will be made. This fee must be paid before a transcript is issued.

Laboratory Fee

In certain courses a laboratory fee, not to exceed the actual cost of materials and supplies and not less than \$2.00 nor more than \$8.00, may be charged. When a laboratory fee is charged, the schedule of classes indicates the associated fee.

Supplementary and Special Fees

Certain art, music and other courses may require supplementary or special fees. When such fees are charged, the schedule of classes indicates the associated fee.

Charges for Auditing Courses

All auditors of courses must submit a Request for Audit Form to the Registrar. Auditors who are not registered UT San Antonio students must pay an auditing fee of \$10.00 per course. Non-student auditors who wish library privileges may receive them by paying a non-student library deposit (Limited Borrower's Deposit) of \$15.00 at the UT San Antonio Library. No additional auditing fees will be charged student auditors registered at UT San Antonio.

Permission to audit may be obtained and fees paid only during the late registration period.

Parking Fees

Fees for parking on the permanent UT San Antonio campus will be established when classes are held on that site. Such on-campus fees are expected to be \$4.00 for each long term and \$2.00 for each summer session. Students who enroll in classes that are held at The University of Texas Health Science Center are required to pay the student parking fee in effect on that

campus. There is no parking fee required of students at the temporary UT San Antonio site located in the Koger Executive Center.

Duplicate Fee Receipt

A service charge of \$1.00 will be assessed for the issuance of a duplicate fee receipt. This charge must be paid at the time the application for a duplicate fee receipt is made.

General Property Deposit

Every student must make a general property deposit of \$10.00 at the time of initial registration to protect The University from losses such as property loss or damage or breakage or violation of rules in any University library or laboratory, failure to return keys furnished by The University, or for damage or loss of any other university property. The records will be reviewed from time to time, and if charges have been made against the deposit, the student may be required to bring the deposit up to \$10.00.

The deposit will be refunded upon request, less outstanding charges, only when the student *officially* withdraws from school or graduates. A general property deposit which remains without call for refund for a period of four years from the date of last attendance at The University shall be forfeited, and the deposit shall become operative to the permanent use and purpose of student scholarships.

Professional Liability (malpractice) Insurance

Prior to official registration for courses that will place them in a clinical situation, allied health students are required under the *Rules and Regulations* of the UT System Board of Regents to show evidence of professional liability (malpractice) insurance coverage. The Director of the Division of Allied Health and Life Sciences will advise students on obtaining such insurance.

Exemption From Tuition and Fees

The Statutes of the State of Texas prescribe certain cases in which students can be exempted from tuition and/or certain fees. The various types of exemptions are described below; however, in each case it is the student's responsibility to initiate the action of applying for an exemption through the Registrar's Office and providing satisfactory evidence that all conditions required for the exemption have been met. Until such time as the exemption is granted, a student will be required to pay all tuition and fees from his or her own funds. Students who might be eligible for an exemption should apply for the exemption at the Registrar's Office at least one month prior to registration of the term in which they plan to utilize the exemption provision.

Exemption of Texas ex-servicemen. A legal resident of Texas is exempted from tuition and certain required fees when he meets *all* the following criteria:

1. He has resided in Texas for a period of not less than twelve (12) months prior to the date of registration.
2. He served in the armed forces or in certain auxiliary services in World War I, World War II, the Korean conflict, or the Cold War. If service was in the Cold War, he must have served on active military duty (other than for training) for more than 180 days.
3. He was a *bona fide* legal resident of the state at the time of entering service.
4. He was honorably discharged from service (those who served in World War II and who were discharged because of being over the age of thirty-eight or because of a personal request are not eligible for this exemption).
5. He is not eligible for education benefits provided for veterans by the United States Government.

Benefits for children of Texas veterans. Exemption from payment of tuition and certain fees is extended to children of members of the armed forces who were killed in action or died while in the service in World War II or the Korean conflict or in the Cold War, and to orphans of members of the Texas National Guard and the Texas Air National Guard killed since January 1, 1946, while on active duty.

Exemption of children of certain disabled public employees. Children of certain firemen, peace officers, employees of the Texas Department of Corrections, and game wardens who have suffered injury resulting in death or disability sustained in the line of duty are exempt from payment of all tuition and laboratory fees.

Exemption of certain deaf and blind students. Blind or deaf persons who are Texas residents are, under certain conditions, exempt from payment of tuition, general property deposit, and certain fees.

Exemption of high-school graduates of state orphanages of Texas. Citizens of Texas who are high-school graduates of the state orphanages of Texas are exempt from tuition and certain required fees.

Low income families. Under certain circumstances a student who is a resident of Texas, is under 25 years of age, who has resided in the state for not less than twelve (12) months prior to registration, who meets certain academic requirements and whose family income was not more than \$4,800 (family income means the combined gross income of the applicant and his family, if he is single, or the combined gross income of his family, himself, and his spouse, if he is married) may be awarded an exemption from tuition and certain other fees. This exemption is not applicable if the tuition and fees are, or will be, paid by the United States Government or from funds other than those of the student, his family, or his guardian.

Children of prisoners of war or persons missing in action. A dependent child under 21 years of age, or a person under 25 years of age who receives the majority of support from his or her parent or parents, is exempted from the payment of tuition and certain fees if he or she is the dependent child of any person who is a domiciliary of Texas on active duty as a member of the armed forces of the United States and who at the time of registration is classified by the Department of Defense as a prisoner of war or as missing in action.

Refund Policy and Adjustment of Fees for Students Withdrawing, Adding, or Dropping Courses

A student who officially withdraws from The University will receive a full refund of tuition and refundable fees paid only if he or she does so before the end of the last official day of registration (not including those days designated as late registration).

In a long session, upon presentation to the Registrar of an official fee receipt showing payment of the fee and surrender of the student identification card, any student withdrawing officially a) after the last official day for registration but during the first week of classes of a semester will receive a refund of 70 percent of the applicable portion of the tuition and fees; b) during the second week, 60 percent; c) during the third week, 40 percent; d) during the fourth week, 20 percent; e) during the fifth week and thereafter, no refund. In a summer session a) after the last official day for registration but during the first three class days, 70 percent; b) on fourth, fifth, or sixth class day, 50 percent; c) after sixth class day, no refund.

Tuition, applicable fees, student building use fees, and student service fees refunds will be made for courses dropped during the first twelve class days if the student paid more than the minimum required and has dropped below the total number of hours for which he or she originally was registered. Tuition and applicable fees for added courses will be billed to the student.

No refunds will be made until 15 days have elapsed from the time fees were paid *unless the fees were paid in cash or by money order*. Refund checks will be mailed to the address indicated when the student withdraws from The University. Students entitled to refunds should allow ten working days after the fifteen-day clearing period for receipt of the refund.

The University reserves the right to deduct from the refund any outstanding financial obligations owed The University.

Debts Owed The University

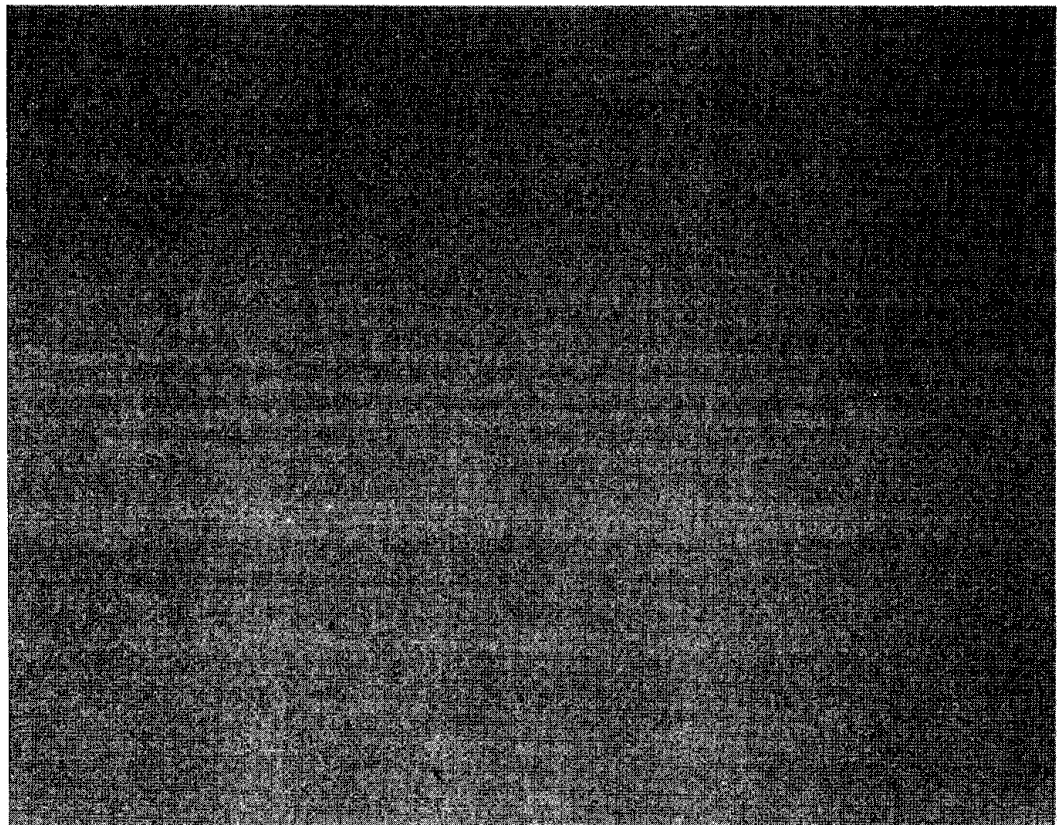
In the event of non-payment of debts owed to The University, any of the following actions may be taken:

1. Denial of re-admission of the student.
2. Denial of further registration.
3. Withholding of official transcripts.
4. Withholding a diploma to which the student would otherwise be entitled.

When a student has any of the above actions against his or her record it is the student's responsibility to clear obligations with The University and see that the Registrar's Office is notified before any additional services will be provided.

A student who pays tuition and fees with a check which is not subsequently honored by a bank, and the fault not being that of the bank, and who does not make payment within five days will have registration for the term cancelled.

III. Institutional Policies Concerning Students



Rules and Regulations of the Board of Regents

All students of The University of Texas at San Antonio are subject to the rules and regulations governing student conduct and discipline as set out in the *Rules and Regulations* of the Board of Regents of The University of Texas System.

The Regents' Rules have full force and effect as concern all UT San Antonio students. These rules may be consulted at the following locations on the campus.

Office of the Dean of Students

The University Library

Offices of all Deans

Offices of all Vice Presidents

Office of the President

A student at The University neither loses the rights nor escapes the responsibilities of citizenship. He or she is expected to obey both the penal and civil statutes of this state and the federal government, the *Rules and Regulations* of the Board of Regents, and the policies and procedures of The University of Texas at San Antonio.

Student Health Services

When a student receives notice of acceptance at The University of Texas at San Antonio, he receives a Physical Examination Form and an Immunization Record Form. These forms must be completed by the student's family physician and returned to The University Student Health Center before the student can register.

When The University is in session, a registered nurse is on duty during class periods, and a physician is available for medical treatment during specified hours and for emergency treatments. The University Student Health Center has only limited medical capabilities.

Students are advised to carry health and accident insurance. Out-of-town students should have documents to verify insurance coverage to avoid possible delays in obtaining medical treatment.

Counseling and Testing Services

A 24-hour counseling service is available to UT San Antonio students and their families. The service, staffed by clinical psychology residents at the UT Health Science Center and under the supervision of faculty, offers assistance with personal problems. For assistance call 224-1515 and leave your name and telephone number for a prompt call-back.

Educational, vocational, and personal counseling and guidance for students and prospective students are provided through The University Counseling Center. The Center is staffed by a director, counselors and testing personnel, who assist students in the exploration and assessment of problems, aptitudes, and conflicts. All counseling is confidential and on a voluntary basis.

Career counseling is available through the Counseling Center to provide students with career guidance and to aid students in examining career options. The staff members assist students in establishing and pursuing career objectives. The Center offers assistance in the choice of a major field of study, occupational, and educational information, and vocational counseling and guidance.

Psychological testing is available to students who seek a better understanding of their capabilities and interests.

Academic advising for *undeclared* majors is also a function of the Counseling Center. This program is designed to provide basic information to students who are undecided about their educational goals. Academic advising for *declared* majors is carried on in the several Colleges, and information should be sought in the Deans' offices.

In addition to submitting scores on required placement examinations, students are encouraged to satisfy general education and degree requirements through credit by examination (covered in Section VI). A brochure on Credit by Examination at UT San Antonio is available on the various tests which are accepted for credit at The University. For additional information students should consult the Credit by Examination and Placement Examinations sections of the present catalog and the Credit by Examination brochure available from the Office of the Dean of Students.

For more detailed information about The University's counseling and testing services, students should contact the Office of the Dean of Students.

Financial Aids

Loans, scholarships and grants-in-aid are administered through the Office of Student Financial Aids.

In addition to providing a limited number of scholarships and loan funds, UT San Antonio participates in state and federal financial aid programs, such as the College Work-Study Program, the Hinson-Hazlewood Loan Program, the Federally Insured Student Loan Program, the Basic Educational Opportunity Grant Program, the State-Funded Scholarship Program, the Work-Study Internship Program, and the Law Enforcement Education Loan Program.

Scholastic aptitude and financial need are important factors in determining eligibility.

Each financial aid applicant is required to:

1. File a Parent's or Student's Financial Statement with the College Scholarship Service or American College Testing. (These forms may be obtained from your high school counselor or you may request one from the Office of Student Financial Aids.) Married or independent students should request forms designed for them.
2. Meet deadlines set by the Office of Student Financial Aids. Deadlines are:

Fall Semester between February 15 and June 30

Spring Semester between September 15
and November 15

Summer Sessions . . between February 15 and May 15

Eligible veterans are also encouraged to inquire about their benefits and additional financial aid for which they may be eligible.

Students whose adjusted annual gross income is below \$15,000 may qualify for Federally Insured Student Loans without meeting the needs analysis test (Guaranteed Student Loan Program).

Information concerning the National Merit Scholarships, or other scholarships is available by calling or writing the Office of Student Financial Aids.

The Texas Rehabilitation Commission offers assistance for tuition and nonrefundable fees to students who have certain disabling conditions provided their vocational objectives have been approved by a Texas Rehabilitation Commission Counselor. Examples of such conditions are orthopedic deformities, emotional disorders, diabetes, epilepsy, heart conditions, etc. Other services are also available to assist the handicapped student to become employable. Application for such service should be made at the Texas Rehabilitation Commission, 102 Rilla Vista, San Antonio, Texas.

Placement Services

The University will maintain a placement service for the following purposes: part-time employment while attending school, summer and vacation employment, placement for students seeking employment immediately after graduating from UT San Antonio, and assistance in the selection of further training. Information on "Do's and Don'ts" in job interviewing will also be provided. The Placement Office will maintain contact with industry, business, state and federal employment services and the professions.

Graduating seniors and graduate students will be given an opportunity to meet recruiters from prospective employers who conduct on-campus interviews for purposes of future employment.

Athletics

Upon the initial opening of UT San Antonio, the athletic program will consist of general recreational activities only. All recreational and intramural programs will depend upon the availability of facilities. Eventually students will be able to participate in handball, tennis, basketball and volleyball. Also playing fields are planned for soccer, touch football, softball and baseball. As interest among students develops, competitive intramural programs will be offered.

Living Accommodations

The University will provide no on-campus housing. Students are responsible for providing their own housing facilities.

Identification Cards

Student identification cards are mandatory. The card is plastic encased and is non-transferable. Replacement cost of \$2.00 is charged for lost or mutilated cards.

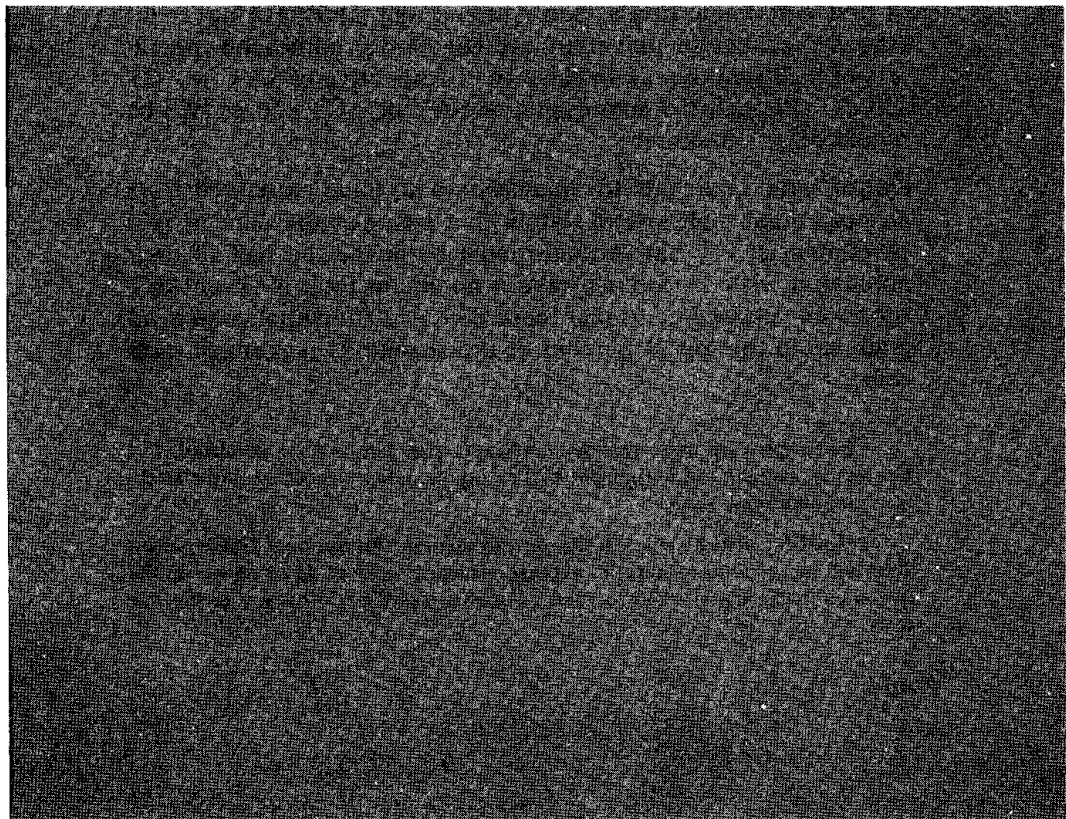
Orientation

An orientation program is available to acquaint new students with the purposes and programs of The University and with the registration procedures and to allow for interviews among students, parents, counselors and faculty members.

Lost and Found

All personal articles found at The University will be placed in the Office of the Dean of Students. Items will be claimed upon proper identification of ownership.

IV. Admission Requirements



First-Time Freshmen*

In-state applicants for admission who have graduated from an accredited Texas high school within five years of the date of first enrollment at UT San Antonio and who have never attended a college or university must have a minimum total score on either the Scholastic Aptitude Test (SAT) of the College Entrance Examination Board or the American College Testing Program (ACT) corresponding to their high school rank in class as indicated in the following table:

<i>High School Rank in Class</i>	<i>Minimum Total SAT Score</i>	<i>Minimum Total ACT Score</i>
Top 10%	Score must be submitted; no minimum score is required	Score must be submitted; no minimum score is required
Top 25%		
(but not top 10%)	700	15
Second 25%	750	17
Third 25%	800	19
Fourth 25%	850	21
GED Test**	850	21

In-state applicants for admission who have graduated from an accredited Texas high school five or more years prior to the date of first enrollment at UT San Antonio and who have never attended a college or university are eligible for admission regardless of high school rank in class and irrespective of SAT or ACT scores, although the submission of SAT or ACT scores will be required for admission.

Out-of-state applicants for admission who have graduated from an accredited high school within five years of the date of first enrollment at UT San Antonio must be in the top half of their graduating class and must have a minimum total SAT or ACT scores corresponding to that required for in-state applicants who graduate in the top 25 percent or the second 25 percent of their class.

*When there are more qualified applicants than can be accommodated, The University may control enrollment by limiting the admission of first-time freshmen and other new students.

**Applicants furnishing results on the General Educational Development Test will be required to have an average standard score of 45 or above on the five tests in the battery and to have no scores less than 35 on any of the five tests.

Out-of-state applicants for admission who have graduated from an accredited high school five or more years prior to the date of first enrollment at UT San Antonio and who have never attended a college or university are eligible for admission regardless of high school rank in class and irrespective of SAT or ACT scores, although the submission of SAT or ACT scores will be required for admission.

Recommended preparation. High school students who anticipate applying to UT San Antonio are strongly encouraged to include in their preparation for university study work in courses involving language skills; courses in quantification skills; and courses in subjects contributing to a broad academic background, such as English and foreign languages, speech, social sciences, history, mathematics and sciences, and the fine arts.* The nature and number of high school units** are suggested as follows:

<i>Subject</i>	<i>Units</i>
English	4
Mathematics: algebra, geometry, trigonometry, and advanced mathematics	3 or more
One foreign language	2 or more
Natural science	2 or more
Social science	2 or more

These specific units, although not required for admission, are recommended, since The University expects each applicant to be prepared for academic work at a higher level.

Admission prior to completion of studies. Applicants for admission as first-time freshmen attending high school at the

*To enroll at UT San Antonio in courses in English, foreign language, and mathematics that are part of The University's General Education Requirements, all students, except those with acceptable college-level transfer credits in these courses, who have prior knowledge of the subject matter must take placement examinations in those subjects. (See the Placement Examinations section of the present catalog.)

**A unit represents a year of study in one subject at an accredited secondary school.

time of application for admission and who meet the rank-in-class and SAT or ACT score requirements at the end of their first semester* of the senior year may be admitted pending certification of high school graduation. Applicants not meeting these requirements prior to graduation will have the determination of eligibility for admission deferred until a final high school transcript and rank-in-class report is received.

Undergraduate Transfer Students**

Applicants for admission who have earned less than 30 semester hours of acceptable credit from accredited colleges or universities must:

- 1) Meet the same rank-in-class/SAT or ACT requirements as first-time freshmen;
- 2) Have at least a "C" average (2.0 grade-point average on a 4.0 scale) on all academic college or university hours attempted; and
- 3) Must be in good standing at the last institution attended.

Applicants for admission who have earned 30 or more semester hours of acceptable credit from accredited colleges or universities must:

- 1) Have at least a "C" average (2.0 grade-point average on a 4.0 scale) on all academic college or university hours attempted; and
- 2) Must be in good standing at the last institution attended.

Applicants for admission as transfer students who are enrolled at another accredited college or university at the time of application for admission and who have at least a "C" average on all attempted college-level work completed through the next to the last term of attendance at other institutions may be admitted pending receipt of final transcripts verifying the cumulative "C"

*For high schools on a calendar using other than the semester system, determination of eligibility may be made at the end of the term which is the next to the last term prior to graduation.

**In 1975-76, transfer will be restricted to upper-division students who have 60 or more hours of acceptable credit.

average and good standing. Applicants not meeting these requirements will have the determination of eligibility for admission deferred until all final transcripts are received.

International Freshmen Students

All applicants for admission as freshmen who are not citizens of the United States must:

1. Have credits equivalent to those of students entering from an accredited secondary school in the United States, as determined by the Registrar's Office;
2. Have superior grades on work done in secondary school, as determined by the Registrar's Office;
3. Submit scores from the Test of English as a Foreign Language (TOEFL), or successfully complete an intensive course in English from an accredited college or university in the United States. A minimum score of 550 on the TOEFL is required. Subsequent English tests and preparation may be required by a student's advisor if his or her performance in English is unsatisfactory. TOEFL scores are not required for international students from countries where the primary language of instruction is English; nor are TOEFL scores required for non-citizens of the United States graduating from United States high schools although a composite SAT or ACT test score appropriate to rank in class is required;
4. Submit a letter guaranteeing the student's ability to pay all expenses while a student at The University. The letter may be sent from a parent or guardian, a bank or other reliable institution, or a United States citizen who will accept responsibility for the student's financial needs;
5. Submit proof of adequate hospitalization insurance prior to registration.

International Transfer Students

International students who have attended a college or university in a country other than the United States must:

1. Have qualifications equal to those required for transfer from a college or university in the United States;
2. Satisfy requirements 3, 4, and 5 above for international freshmen students.

To be eligible for admission, international students who have attended another college or university in the United States must:

1. Have completed at least 30 semester hours of credit with "C" (2.0 average on a 4.0 scale) on all work attempted;
2. Satisfy requirements 3, 4, and 5 above for international freshmen students.

TOEFL scores are not required for non-citizens of the United States graduating from United States colleges and universities with at least a baccalaureate degree.

Provisional Admission Program for Freshmen

Any Texas resident applying as a freshman who has not attended a college or university and who is a graduate of an accredited high school but who does not qualify for admission due to an inadequate SAT or ACT score or deficiencies in high school preparation may be admitted on a provisional basis in the spring semester or in the first summer term (for both summer sessions), during which time the student will be given an opportunity to demonstrate that he or she can perform college-level work and that he or she can reasonably be expected to make progress toward a degree. Such a student will be required to take courses selected from English, mathematics, natural science, and language and may not take courses in other disciplines until the provisional status is removed. The student must demonstrate ability to perform college work by obtaining an overall "C" average (2.0 on a 4.0 scale) in 12 hours of work from these fields. Normally a student will be expected to complete these 12 hours of work in a summer session (both summer terms) or during the spring semester. Upon completion of 12 hours of work from these fields a student will be admitted as a regular univer-

sity student in subsequent semesters. Students who achieve a GPA between 1.5 and 2.0 in their first semester or summer session (both summer terms) will be allowed to continue for the next semester or summer session immediately following in order to achieve a cumulative GPA of 2.0. A student not meeting these requirements will not be allowed to continue in the following semester or summer session.

Transient Students

A student who intends to register for courses in one term **ONLY** and who does not intend to work toward a degree at The University of Texas at San Antonio should apply for admission as a transient student. A statement of good standing from the institution last attended will be required as well as the application for admission.

A transient student may register for any course in which he or she has the prerequisites and in which space is available. A student registered in this capacity cannot enroll in subsequent terms unless he or she has been admitted as a regular student. To be admitted as a regular student the transient student must apply for regular student status through the Admissions Office and meet The University's admission requirements.

Application Dates

Students applying for admission to The University of Texas at San Antonio may apply for admission according to the following schedule.*

Application forms and instructions will be available from the Admissions Office beginning with the "first date to apply" indicated below. The completed application form and all required supporting documents must be on file with the Admissions Office no later than the "last date to apply" shown below.

*In the event there are more qualified applicants for admission than can be accommodated by The University, it may be necessary to restrict admission and/or enrollment. All applicants are, therefore, encouraged to apply for admission at the earliest possible time.

<i>Term</i>	<i>First Date to Apply</i>	<i>Last Date to Apply*</i>
Fall, 1975	September 16, 1974	July 1, 1975
Spring, 1976	August 1, 1975	December 1, 1975
Summer I, 1976	January 15, 1976	May 1, 1976
Summer II, 1976	January 15, 1976	June 1, 1976

Admission Procedures

The procedures to be followed in applying for admission are explained on the Application for Admission form. Each applicant for admission is individually responsible for ensuring that all required support documents (e.g., application form, test results, required transcripts, immunization record, etc.) are on file in the Admissions Office, since admission will not be granted until the applicant's file is complete.

Students who apply for admission to The University of Texas at San Antonio for any term and do not register, must re-apply for admission if they wish to enroll at a later date. A subsequent application for admission must be in accordance with current admission requirements. New transcripts, test scores, and all other supporting documents will be required since files for admitted students who do not register are not retained.

Re-Admission Policies and Procedures

Students, other than transient students, who have previously been admitted and registered at The University of Texas at San Antonio as resident students and who were enrolled within 12 months prior to the beginning of any semester or summer session and who are scholastically eligible to return may re-enroll without applying for re-admission. Former students who have not been enrolled within 12 months prior to the anticipated date of return must submit an application for re-admission and file a residence questionnaire. The application form and residence questionnaire are available in the Admissions Office. All former

*All documents required for admission must be received by the Admissions Office by this date.

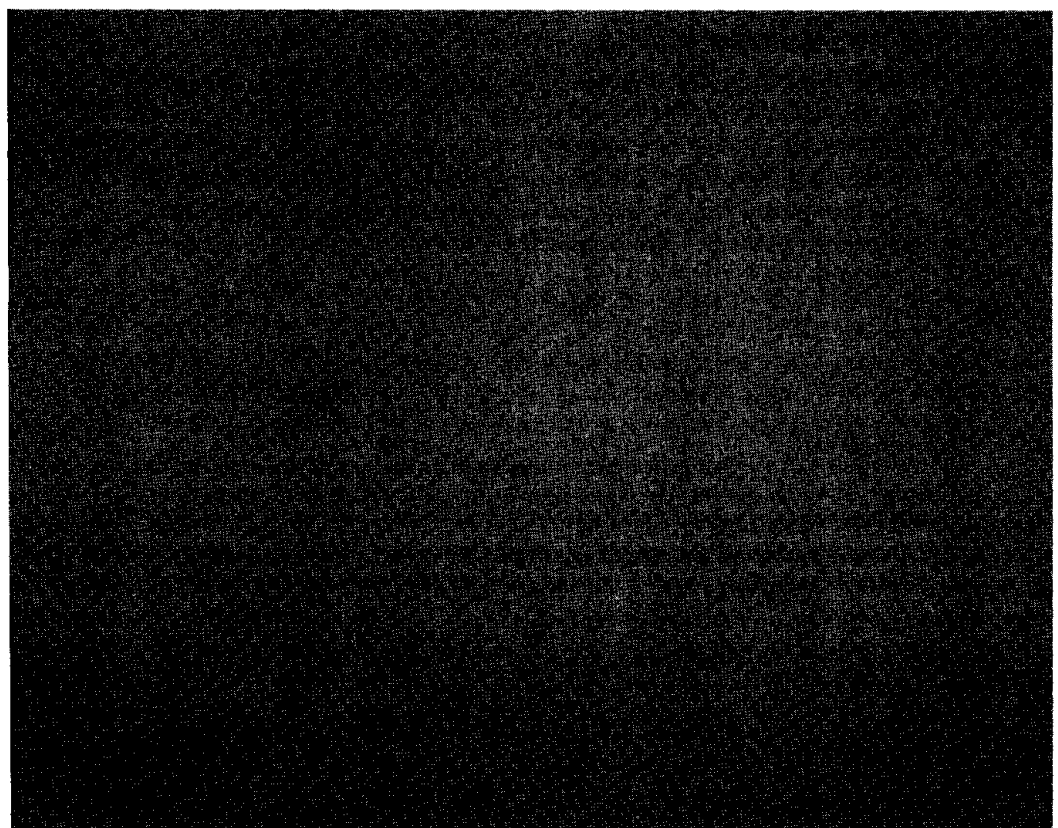
students returning to UT San Antonio who have attended other institutions of higher education since they were last enrolled must submit an official transcript from each such institution. Eligibility for re-admission for any former student will depend on the academic status at the conclusion of the student's last UT San Antonio enrollment and any subsequent college or university work attempted.

Admission to Teacher Certification Programs

The University of Texas at San Antonio anticipates approval by the Texas Education Agency to recommend students for teacher certification in various baccalaureate degree areas.* Students who wish to prepare for teaching must apply for admission to The University through the Admissions Office and for admission to a certificate program through the Office of Teacher Certification and Placement. The application for admission to a certificate program should be submitted at the time the student attains upper-division standing.

*A complete list of certification programs will be published in a brochure available from the Office of Teacher Certification and Placement.

V. General Academic Regulations



Registration

All students who attend classes at The University of Texas at San Antonio must be officially registered.* Directions for the registration procedure are issued each term. Questions regarding registration should be directed to the Registrar's Office.

The University does not guarantee the availability of particular courses or sections thereof, since admission to classes will be permitted only until the maximum number of students allowable in any section has been reached. The University reserves the right to cancel any course or section in which the number of registrants does not warrant its continuation.

Late Registration

Late registration permits students to register during the first week of classes in a regular semester or during the first two class days of a summer session. Students who register late will be charged an additional \$5.00 the first day of late registration and an additional \$2.50 per day thereafter; this fee is non-refundable. Instructions for late registration are available in the Registrar's Office. Students will not be permitted to register after the close of late registration.

Those students who register late are responsible for completing any work missed in the courses for which they enrolled during the time the course was in session prior to their being registered. It may be necessary for late registrants to select courses in which to enroll from a reduced schedule since many courses will have been closed at their capacity.

*Students are held individually responsible for meeting all requirements as indicated in this catalog. Failure to read and comply with policies, regulations, and procedures will not exempt a student from whatever penalties he may incur.

The policies, regulations, and procedures stated in this catalog are subject to change without prior notice, if necessary, so that University policies are consistent with the policies of the Board of Regents of The University of Texas System.

Adding and Dropping Courses

During the first week of classes in a regular semester or during the first two calendar days in a summer session, a student may add or drop courses in the Registrar's Office. The student is responsible for obtaining the instructor's approval and filing the change with the Registrar's Office so that the action will become official. Courses dropped during this period will not appear on the student's academic record. A grade of "F," however, will be entered on the student's academic record if he registers for a course and discontinues attendance without filing official notification with the Registrar.

After registration, but during the first week of classes in any semester, or the first two class days in any summer term, a student may add a course only with the approval of the course instructor and the student's Advisor. After the first week of classes and through the twelfth class day of any semester, or on the third or fourth class day of any summer term, the additional approval of the Dean of the College in which the course is offered is required. After the twelfth class day of any semester or after the fourth class day of any summer term, students may *not* add a course except for extremely rare and extenuating circumstances, as approved by the Vice President for Academic Affairs.

If a student finds it necessary to drop a course after the first week of classes in a regular semester or after the second calendar day in a summer session, it is his responsibility to initiate and complete procedures for obtaining an approved withdrawal from the course. The forms for this purpose are available in the Registrar's Office and require the approval of the instructor. In order for the action to be official, the student must file the approved form with the Registrar's Office. A student who officially drops a course after the first week of classes in a regular semester or after the second calendar day in a summer session will be assigned a grade of "W" if he is passing the course at the time of withdrawal or a grade of "F" if he is failing the course at the time of withdrawal. A student who drops a course without filing the required form with the Registrar's Office will be assigned a grade of "F" in the course. Students may not withdraw from a course later than three weeks prior to the beginning of final examinations for the semester and not later than two weeks prior to the beginning of final examinations for the summer session.

The University Calendar indicates the deadline dates for adding and dropping courses each term.

Auditing of Courses

UT San Antonio students and non-students who wish to audit a course may do so with the approval of the instructor and the Dean of the College in which the course is offered, providing there is space in the classroom after all registered students have been accommodated. A course must achieve its minimum size without auditors. Participation of an auditor in class will be at the discretion of the instructor.

All auditors must submit the Request for Audit Form to the Registrar. Auditors who are not registered UT San Antonio students must pay an auditing fee of \$10.00 per course. Non-student auditors who wish library privileges may receive them by paying a non-student library deposit (Limited Borrower's Deposit) of \$15.00 at the UT San Antonio Library. No additional fees for auditing will be charged to students who are registered at UT San Antonio.

Permission to audit may be obtained and fees paid only during the late registration period.

An auditor will have no official record made of his enrollment in classes on an audit basis.

Verification of Enrollment

Following the add/drop period of each semester or summer session, a verification report is sent to each student indicating the schedule of classes in which he is officially enrolled. Any discrepancies between the courses shown on the notice and the courses the student is attending should be resolved by the student in person with the Registrar's Office immediately.

Maintaining Registration

Degree candidates are expected to maintain registration until all degree requirements are satisfied. By failing to register for at least one term within a 12-month period, a student breaks his

registration and must be readmitted. (See Re-admission Policies and Procedures.)

Change of Major or Degree

A student who wishes to change his major or degree objective must obtain the required forms in the Registrar's Office. The change is not official until the form has been completed and filed with the Registrar's Office.

Correspondence and Extension Courses

The University of Texas at San Antonio does not offer correspondence or extension courses at this time. For UT San Antonio policies on transfer and credit limitations on such courses, see the section on Transfer of Credit.

While enrolled at UT San Antonio, students normally will not be permitted to transfer to UT San Antonio credit earned through correspondence or extension courses. Exceptions to this rule must be approved by the student's Advisor and Dean, and such courses can be taken only in the event that the student about to graduate cannot obtain the course in residence.

Student Classification System

Upper-division (junior and senior): A student who has earned 60 or more semester hours of credit.

Lower-division (freshman and sophomore): A student who has earned less than 60 semester hours of credit.

Transient: A student who registers for courses in the summer session *only* or during one semester *only* and who is not working toward a degree at UT San Antonio.

Definition of a Full-Time and a Part-Time Undergraduate Student

A full-time undergraduate student is one enrolled in twelve or more semester hours of courses during a regular semester or in six or more hours of courses during a summer session.

A part-time undergraduate student is one enrolled in less than twelve hours of credit during a regular semester or less than six hours during a summer session.

Note: Upon request, the Registrar will certify students as “full-time” during the term in which they intend to graduate if they are enrolled in the number of hours required to complete the degree, regardless of the number of hours involved.

Course Numbering System

All courses are designated by four-digit numbers following a three-letter abbreviation of the subject field. The first number indicates the level of the course. All courses with a first number of 1 or 2 are lower-division (freshman and sophomore) courses, and all courses with a first number of 3 or 4 are upper-division (junior or senior) courses. All course numbers starting with 5 or 6 are graduate courses.

The second and third numbers are used within the Colleges by each Division to distinguish individual courses.

The final number indicates the semester hour value of the course.

Prerequisites

Prerequisites are stated for many courses listed in this catalog. The purpose of the prerequisite is to advise the student of the background expected of all students in the course. When a student has not met the specific prerequisites listed, he may, under special conditions, obtain permission to register from the instructor of the course. It is the student's responsibility to be sure that he has met all prerequisites before enrolling in any course.

Grading System

Hours attempted. The number of hours attempted is the total number of hours for which a student has enrolled and received grades of “A,” “B,” “C,” “D,” or “F” (see below), except as provided for repeated courses.

Hours earned. The hours earned by a student are the number of semester hours of credit earned in which grades of "A," "B," "C," or "D" have been received (see below).

Grade-Point Average. The grade-point average (GPA) is determined by dividing the number of grade points earned at UT San Antonio by the number of semester hours attempted at UT San Antonio.

Credits and grades for work completed at other institutions or credit earned by examinations (other than by challenging UT San Antonio courses) are not included in the UT San Antonio grade-point average.

Grade symbols and grade points.

<i>Symbols</i>	<i>Grade Points</i>
A	4
B	3
C	2
D	1
F	0
W	0
IN	0
NR	0

Explanation of Grade Symbols

"A" through "F." A = Outstanding; B = Above Average; C = Average; D = Below Average but passing; F = Failure.

"W" or "Withdrawal." The symbol "W" is used to indicate that at the time of withdrawal from a course, the student's grade was passing.

"IN" or "Incomplete." The grade of "Incomplete" ("IN"), subject to the regulations of this section, may be assigned a student at the discretion of the instructor. The purpose of the "Incomplete" grade is to allow a student to complete a course without repetition of the regular work of a course. It may not be assigned when a definite grade can be given for the work done. The "Incomplete" grade will be given to indicate that some part of the work of a student in the course has, for good reason, not been completed, while the rest has been satisfactorily completed. The student must have been in attendance at least three-fourths of the term.

Incomplete work must be made up before the completion of the student's next resident enrollment or the student's graduation, whichever is earlier, provided that not more than one year elapses from the time that the "Incomplete" grade is received until the work is completed. If the work is not completed within this time, the "Incomplete" will remain on the student's record and credit may be earned only when the student re-enrolls in the course and completes the entire course satisfactorily.

Whenever a grade of "Incomplete" is assigned, the instructor is required to file a "Requirements for Removal of Incomplete" report with the Dean of the College in which the course is offered.

"NR" or "No Report." The grade "No Report" ("NR") may be assigned a student only by the Registrar and only in cases in which a grade has not been reported by an instructor. This symbol is assigned when it is not possible to obtain the student's proper grade by the deadline necessary for processing grades at the close of the term and will be replaced with the official grade as soon as possible.

Change of Grades

Grade changes from "Incomplete" ("IN") to a letter grade must be made within the time limit provisions explained under Grades of Incomplete in this catalog. A grade of "Incomplete" may be changed by the instructor, within the time limits, by completing a Removal of Incomplete form and filing it with the Registrar's Office.

Any other change of grade must be initiated by the instructor on the required form and filed with the Registrar. It is the policy to change a grade (other than "Incomplete") only in the case of error. No change of grade will be considered after six months from the date the original grade was assigned.

Class Participation Policy

Regular attendance at and participation in all meetings of courses for which a student is registered is expected. It is the instructor's responsibility to set and to communicate to students the participation requirements for each course. The degree to which classroom participation is required and whether or not work missed by a student during his absence may be made up is at the discretion of the instructor.

Repeating Courses

Only those courses in the catalog in which the course description specifically indicates "may be repeated for credit" may be repeated with both the units and grade points earned being counted. An undergraduate student may, however, repeat a course in which he received a grade of "D" or "F" in order to improve his grade point average, but cannot receive credit for the course more than once.

When re-enrollment in a "D" course is allowed, it will cancel the grade and credit earned in the earlier enrollment unless a lower grade is received. If a lower grade is received, it will not be charged against the student's grades. If another "D" is earned, it will be marked as "duplication" on the student's official records and will not be used in computing the grade point average.

Re-enrollment in a course in which an "F" has been received will cancel the credit hours charged against the student's grades if a higher grade is earned. If a second "F" is received, it will not be charged against the student's record.

A student may not repeat a course by correspondence or extension study for the purpose of raising his grade-point average.

Only undergraduate students may repeat courses for the purpose of raising the grade point average, as described above.

Mid-Term Reports

At mid-term each semester (not summer sessions) instructors are asked to report to the Dean of the College in which courses are offered any students who at that time are earning less than a "C" grade in the course. Students are advised, at their local addresses, of any such courses in which their level of performance is not satisfactory. Students receiving such notices are encouraged to discuss their performance with the instructors in the respective classes.

There is no official record made of mid-semester low grade reports. The sole purpose of the report is to advise the student of his status at that time.

Grade Reports

The Registrar's Office mails final grades as soon as they are compiled after the close of each semester and the summer session. The grade report reflects the grade assigned by the instructor on his final grade sheet; any subsequent changes are not included. Grades are mailed to the address on file in the Registrar's Office. Only one grade report is mailed; additional copies are not available.

Honor Roll and Dean's List

Undergraduate students who achieve scholastic distinction in a semester, as evidenced by a grade-point average of 3.50 or higher in at least 12 hours of credit and receive no grades of "D," "F," or "IN" are included on the Honor Roll. Undergraduate students who complete at least 12 semester hours and receive no grades of "D," "F," or "IN" and who achieve a grade-point average of 3.75 or higher for any semester will be included on the Dean's List. Neither the Honor Roll nor the Dean's List are prepared for the summer sessions. To determine eligibility for graduation with honors, see Graduation With Honors.

Minimum Scholastic Requirements

To maintain minimum scholastic requirements a lower-division student (less than 60 semester hours of credit earned) must maintain a grade-point average that does not fall to 10 grade points below a "C" (2.0) average in all work attempted at UT San Antonio. An upper-division student (60 or more semester hours of credit earned) must maintain a cumulative grade-point average of "C" (2.0) in all work attempted at UT San Antonio.

Academic Probation and Academic Dismissal

Undergraduate students will be placed on academic probation according to the following regulations:

1. A student (other than a Provisional Admission Program student) who, by special action, is admitted to UT San

Antonio with qualifications lower than those required for regular admission will be placed on academic probation.

2. A lower-division student (less than 60 semester hours of credit earned) will be placed on academic probation if he is deficient from a "C" average by 10 or more grade points in all work attempted at UT San Antonio.
3. An upper-division undergraduate student (60 or more semester hours of credit earned) will be placed on academic probation if he fails to achieve and maintain a cumulative grade-point average of "C" (2.0) in all work attempted at UT San Antonio.
4. A student who has been reinstated following an academic dismissal will automatically be placed on academic probation.
5. Students on academic probation are encouraged to discuss their status with their Advisors before registering for a new term.

Undergraduate students who are on academic probation at the beginning of a term and whose grade-point deficiency at the close of that term would place the student on probation again will be dismissed for scholastic deficiency (academic dismissal) unless the term grade-point average is above 2.0. Students not on probation but who in any term are enrolled for more than three semester hours of credit and have a grade-point average of less than 1.50 for that term will be academically dismissed.

Students admitted under the Provisional Admission Program must meet the requirements indicated in order to continue into subsequent terms.

Scholastic Dishonesty

The integrity of a university degree depends on the integrity of the work done for that degree by each student. The University expects that a student should maintain a high standard of individual honor in his scholastic work.

"Scholastic dishonesty" includes, but is not limited to, cheating on a test or other class work, plagiarism (the appropriation of another's work and the unacknowledged incorporation of that

work in one's own written work offered for credit), and collusion (the unauthorized collaboration with another person in preparing course work offered for credit.)

Should a student be accused of scholastic dishonesty, the Dean of the College in which the student is enrolled may initiate disciplinary proceedings.

Cancellation of Enrollment

Any student who fails to fulfill admission or registration requirements or who otherwise fails to adhere to academic regulations is subject to immediate administrative action which may result in his/her enrollment for that term being cancelled. Re-application for admission, or application for re-admission, to a subsequent term may be considered, provided the deficiency which resulted in the cancellation has been removed.

Withdrawal Procedures

A student who finds it necessary to withdraw from The University (i.e., drop all courses for which he is enrolled) may obtain the forms for this purpose from the Registrar's Office. After completing the required forms, the student must file the necessary material with the Registrar's Office in order to withdraw officially. Students may not withdraw from The University after final examinations for the term have begun. Students who officially withdraw after the first week of classes in a regular semester or after the second calendar day of a summer session will receive a grade of "W" for each class they are passing at the time, and a grade of "F" for each class in which they are not passing at the time of withdrawal. Students who withdraw from all classes are subject to the academic probation and dismissal regulations at the close of the term. Students withdrawing should refer to the regulations on refunds of tuition and fees.

Transcripts

Official transcripts of all course work taken at The University of Texas at San Antonio are available in the Registrar's Office. Requests for transcripts must be in writing and bear the signature

of the student whose record is requested. A fee of \$1.00 will be charged for each copy of the transcripts and must be paid in advance. Transcripts from other institutions submitted to UT San Antonio will become the property of The University and will not be reproduced and/or mailed to other institutions. Upon request, work in progress (i.e., a listing of classes in which the student is currently enrolled) will be included with the transcript without additional charge.

Students who have a financial obligation or other commitment outstanding to The University will have transcript service withheld until the obligation is paid in full.

Release of Transcripts and Academic Records

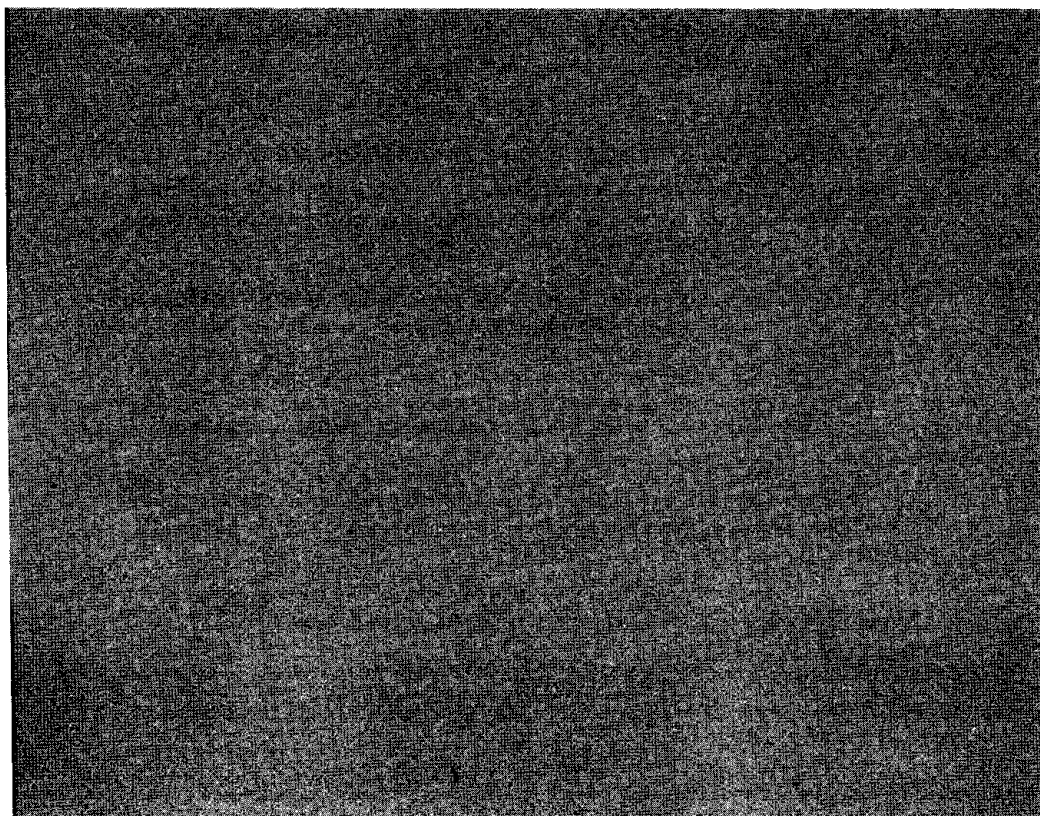
Transcripts and other information from a student's academic records will be released by the Registrar only upon written request from the student, and when payment of the appropriate fee is made. The following exceptions may be made:

1. In the case of an unmarried minor student, upon the written request of the student's parents or legal guardian.
2. In response to a court order.
3. To another institution of higher education or an accreditation agency upon request.

Change of Name or Address

Currently enrolled students who have changed their names or addresses should notify the Registrar's Office by completing the appropriate form. Official notification of change of address is necessary for proper identification of students' records and for accurate mailing of correspondence, grade reports, transcripts, registration instructions, and information pertaining to graduation requirements.

VI. Bachelor's Degree Regulations



Bachelor's Degree Requirements

In order to receive a bachelor's degree from UT San Antonio, a student must comply with the following requirements:

1. Complete a minimum of 120 semester hours of credit, of which at least 39 must be in upper-division work.
2. Complete the university-wide general education requirements. (See immediately below.)
3. Complete the requirements for a major. (See Section VII of catalog.)
4. Meet the residence requirements. (See below.)
5. Achieve an overall 2.0 grade-point average in all work attempted at UT San Antonio and a 2.0 grade-point average in all work included in the major.

University-Wide General Education Requirements*

All candidates for a bachelor's degree at The University of Texas at San Antonio must satisfy the following university-wide general education requirements. The specific degree requirements for majors as established by the individual Colleges and Divisions are set out under the degree plans described in Section VII of this catalog.

1. Complete a minimum of 35 semester hours as follows:
 - A. Nine semester hours in English and humanities (ENG 1013 and ENG 1023 are required of all students, with the three remaining hours to be selected from ENG 1033, 1043, or 1053).
 - B. Six semester hours in American history or three hours each in Texas and American history.**
 - C. Six semester hours in U.S. and Texas government.**
 - D. Nine semester hours in a single foreign language.

*Because in 1975-76 UT San Antonio will offer only upper-division undergraduate programs, the general education requirements will be modified as necessary.

**A maximum of three semester hours in history and three semester hours in government or political science can be earned by examination.

- E. Four semester hours in mathematics (three hours of which must be above MAT 1011).
- F. One semester hour of library study. (Optional for students entering with 60 hours or more.)
- 2. Complete an additional 15 semester hours of required electives as follows:
 - A. Students majoring in the humanities, including English and foreign languages, or the fine arts, must select at least six hours from Group B, six hours from Group C, and three additional hours from either Group B or C below.
 - B. Students majoring in social sciences or business must select at least six hours from Group A (three of which should be in fine arts or music), six hours from Group B, and three additional hours from either Group A or B below.
 - C. Students majoring in the sciences, mathematics, or allied health professions must select at least six hours from Group A (three of which should be in fine arts or music), six hours from Group C, and three additional hours from Group A or C below.
 - D. Students majoring in education or physical education must select at least six hours from each of two groups (A, B, or C, excluding education) and an additional three hours from any of Groups A, B, or C (excluding education) below. Three hours should be in art or music.

Group A

English

Foreign Languages
and Linguistics

Classics

Philosophy

Art

Music

Group B

Biological Sciences

Physical and
Earth Sciences

Mathematics and
Systems Design

Group C

Social Sciences

(including
History)

Business
Education*

*Physical activities courses do not apply, nor may education electives be taken by teacher certification students.

Minimum Residence Requirements

The following minimum residence requirements are established for all institutions in The University of Texas System.

1. A minimum of 30 semester hours of credit must be completed in residence before a degree can be conferred.
2. Twenty-four of the last thirty semester hours must be completed in residence, with the exception that among the UT System components, a student may, with the approval of the appropriate Dean, transfer additional course work to his program at his degree-granting institution.
3. Of the 39 upper-division hours required in all degree programs, 18 of these must be taken at UT San Antonio.
4. At least six hours of upper-division course work in the major must be completed in residence. Additional hours in the major sequence may be required by individual schools or colleges.
5. The term, "in residence," is defined as in residence at the UT System component which ultimately grants the degree. Residence credit does not include courses taken by extension or correspondence. Credit earned by examination other than by challenging UT San Antonio courses, may not apply to residence requirements.

Transfer of Credit

Undergraduate transfer of credit policies of The University of Texas at San Antonio are designed to reduce the difficulties often experienced by students seeking to transfer credit from one institution to another. To prevent unnecessary loss of time and credit, prospective transfer students are encouraged to inform themselves as early as possible of UT San Antonio's admission policies (see Section IV) and degree requirements in their area of interest (see Section VII). Students attending community colleges should be guided as well by the Core Curricula

designed and adopted by the Coordinating Board, Texas College and University System to simplify the transfer of credit, copies of which are available through most community college counselors.

The Coordinating Board, Texas College and University System has approved core curricula in the following areas: Arts and Sciences (including Mathematics and Natural Sciences), Business Administration, Engineering, Art, and Criminal Justice. Although the courses taken in these core curricula at various institutions may not be precisely equivalent to courses in the UT San Antonio Undergraduate Catalog, students who have successfully completed these core curricula at other institutions will be given full credit toward the appropriate degree at UT San Antonio.

Undergraduate students who complete college credits at other institutions will have those credits evaluated for transfer to UT San Antonio by the Director of Admissions and Registrar on the basis of UT San Antonio equivalency tables and according to the following guidelines:

1. All work transferred must be from a college or university accredited by a regional accrediting association (credits completed at foreign institutions will be evaluated on an individual basis).
2. Any academic course from an accredited college or university in which a passing grade has been earned will be accepted for transfer credit if it meets all other criteria of this section. Only those hours which apply toward a specific baccalaureate degree program will count toward graduation.
3. The applicability of particular courses completed at other institutions toward specific course requirements for a baccalaureate degree at UT San Antonio depends upon equivalency of such courses to courses offered by UT San Antonio. Other academic courses will be transferred as electives; credit for these courses, which will be recorded on the student's transcript, will count to-

ward graduation only if they satisfy requirements of the student's degree program. Credit will not be given for duplication or repetition of courses.

4. When a course has been repeated for credit, the highest grade earned will be used in the acceptance of credit.
5. Credits for courses such as remedial courses, vocational-technical courses,* orientation, life experience, high school level courses, or mathematics below the college algebra level are not accepted for transfer credit. No transfer credit is granted for the General Education Development Tests.
6. Credit by examination awarded at another institution will be accepted for transfer in accordance with UT San Antonio policies on credit by examination for UT San Antonio students.
7. Credit earned through accredited colleges and universities for college level academic courses by extension or correspondence (including USAFI courses) will be evaluated and accepted for transfer if equivalent to UT San Antonio courses and if applicable to the student's degree program. However, the maximum credit accepted through a combination of extension and correspondence courses is 30 hours (18-hour maximum by correspondence, including USAFI). No more than 6 hours of correspondence credit may be applied to the major.
8. Credits earned at another UT System institution may be accepted at full value within the provisions of this section and the residence requirements adjusted accordingly.
9. Transfer credit for junior college work may not exceed 66 semester hours. Students who have completed more acceptable semester hours than are allowed for transfer may, with the approval of the student's Advisor and Dean, apply completed, transferable courses to specific

*Where vocational-technical courses support an individual's degree program, free-elective credit may be given upon the approval of the Dean of the College in which the student is enrolled. Consideration of free-elective credit will be made only upon the written request of the student.

course requirements and thereby not have to repeat the course. The semester hours for those additional courses may not be applied toward the hour requirements for a baccalaureate degree.

No upper-division credit may be earned at a junior college. All course requirements at UT San Antonio which are designated as upper division may be transferred to UT San Antonio only from senior-level institutions.

For credit to be transferred as an upper-division course, the institution where credit was earned must be an accredited senior-level institution and the course must be described in the institution's catalog as being of upper-division level.

10. Transfer credit for military service training school courses will not be granted by UT San Antonio. A student having taken such courses may challenge by examination those UT San Antonio courses which appear equivalent to those already completed. (See the paragraph on Challenging of Courses by Examination in the Credit by Examination section of this catalog.) Credit for ROTC or military science, when awarded by another accredited college or university, will be accepted by UT San Antonio as elective credit within the limitations of the student's degree program.
11. Credits earned in partially accredited colleges and universities will be considered for transfer to UT San Antonio on an individual basis and as to applicability to the student's degree program.

An official evaluation of transfer credit will be supplied to each new student as soon as possible following admission. This evaluation will show the equivalency of courses completed elsewhere to courses at UT San Antonio and their applicability to the student's proposed baccalaureate degree at UT San Antonio.

Students who do not receive transfer credit for specific courses should review the policies for credit by examination.

Credit by Examination

A student at The University of Texas at San Antonio may normally satisfy general education and specific degree requirements through credit by examination.* Except for one type of examination, credit earned by this means is not counted as satisfying minimum residence requirements. The exception noted pertains to credits earned by challenging UT San Antonio courses; these credits are counted toward the minimum residence requirements and the letter grades earned are included in the calculation of the student's grade-point average at UT San Antonio.

Unsuccessful attempts to earn credit by examination will not become part of the student's official academic record.

A brochure on Credit by Examination at UT San Antonio is available from the Office of the Dean of Students on the various tests which are accepted for credit at The University. The booklet describes the tests available, when and where they are given, their costs, procedures for having test scores submitted for consideration for credit, the amount of credit that may be earned, and how to obtain additional information on each test.

Placement Examinations (Required)

To enroll in certain courses that are required as part of UT San Antonio's General Education Requirements, all students, except those with acceptable college-level transfer credits in these courses, who have prior knowledge of the subject matter must take placement examinations in those subjects to determine level of proficiency. For courses in which the student demonstrates the required proficiency, semester hours will be awarded toward graduation. These hours will not count, however, as part of the minimum residence requirements.

Placement examinations are required in English, Foreign Languages, and Mathematics.

*Credit cannot be earned by examination 1) for courses which are used to fulfill the statutory history and government General Education Requirements in excess of 3 semester hours in history and 3 semester hours in government or political science or 2) for courses in a degree program for which no appropriate examination exists or which consist of materials that cannot be tested by means of examination.

- a. *Placement in English.* The College Board Achievement Test in English Composition is required.
- b. *Placement in Foreign Language.* The College Board Listening-Reading Achievement Test in the appropriate foreign language is required.
- c. *Placement in Mathematics.* The College Board Achievement Test in Mathematics, Level I is required.

For additional details concerning these placement examinations, students should consult the brochure Credit by Examination at UT San Antonio available in the Office of the Dean of Students.

UT San Antonio Examinations for Challenging Courses (Optional)

Students enrolled in The University of Texas at San Antonio may request an examination in any UT San Antonio undergraduate course. Not all courses, however, consist of materials that can be tested by means of examination, and the option of whether or not to grant the request rests with the instructor of the course.

To challenge a course by examination, the student must enroll in the course and within the first three weeks must request to complete it by examination(s). A charge of \$15.00 will be made for such examination(s). If the student receives a grade of "A," "B," or "C," it will be submitted at the end of the term by the instructor on the grade report for the course with a credit-by-examination notation.

Provisionally admitted students may request to challenge by examination courses in those disciplines to which their enrollment is restricted. Those who earn grades of "A," "B," or "C" will have the appropriate number of credit hours and the grade entered on their record.

Grades earned on the basis of challenge by examination will be included as part of the student's UT San Antonio grade-point average.

Multiple Majors

A student completing a baccalaureate degree at The University of Texas at San Antonio is not restricted in the number of majors he or she may complete for the degree. However, if a student wishes to pursue more than one major, all requirements for a single degree major plus the additional requirements for the other major(s) must be completed. It is unlikely that a student fulfilling more than one major can complete all requirements within the same number of semester credit hours required for a single major.

Additional Baccalaureate Degrees

A student holding a baccalaureate degree from The University of Texas at San Antonio or from another accredited institution may receive an additional bachelor's degree from UT San Antonio. Such a student will continue to be classified as an undergraduate and must:

1. Complete a minimum of 30 semester hours of residence credit at UT San Antonio (of which at least 12 must be at the upper-division level in the major field) for each baccalaureate degree sought beyond the first.
2. Complete all requirements for the additional major(s), as set forth in the Catalog.
3. Complete all requirements for the additional degree(s), including support courses, elective courses, and upper-division courses, as set forth in the Catalog.

Earning Graduate Credit While an Undergraduate

An undergraduate student may, during his final term of enrollment as an undergraduate student, earn graduate credit under the following conditions:

1. All hours required for the degree must be completed in the term in which he is taking the additional courses for graduate credit.
2. Permission, on an approved form available at the Registrar's Office, must be obtained from the student's

Advisor and the Dean of the College in which the courses to be awarded graduate credit are offered. The approved form must be filed with the Registrar's Office by the end of the add/drop period of the term in which the registration is being made.

3. In order to earn graduate credit, the student must graduate at the end of that term; otherwise, the courses will be regarded as undergraduate credit. If graduate credit is earned, the units are not considered a part of the baccalaureate degree program.

Catalog of Graduation

Candidates for a baccalaureate degree may graduate upon the completion of the requirements as stated in the catalog in effect at the time of initial registration at UT San Antonio or in any subsequent catalog, except that no degree will be granted on the basis of the requirements listed in a catalog issued more than seven years prior to the date of graduation. In the event certain required courses have been discontinued, substitutions may be authorized or required by the student's academic Dean.

Application for the Degree

All degree candidates must officially apply for the degree at the Registrar's Office no later than the end of the add/drop period of the term (Fall, Spring, or Second Summer Session) in which they intend to graduate. Undergraduate students should apply for the degree during the term in which their current enrollment will yield 90 semester hours of earned credit.

If a student does not graduate at the close of the term for which he has applied, he must again apply for the degree and pay the required fee.

Graduation with Honors

Undergraduate students who complete degree requirements for a baccalaureate degree and who have earned an overall grade-point average of 3.50 in all academic college work attempted and

have earned a grade-point average of 3.50 in all units attempted at The University of Texas at San Antonio will be eligible for graduation Magna Cum Laude. Those who have earned a grade-point average of 3.75 on an overall basis and at UT San Antonio will be eligible for graduation Summa Cum Laude.

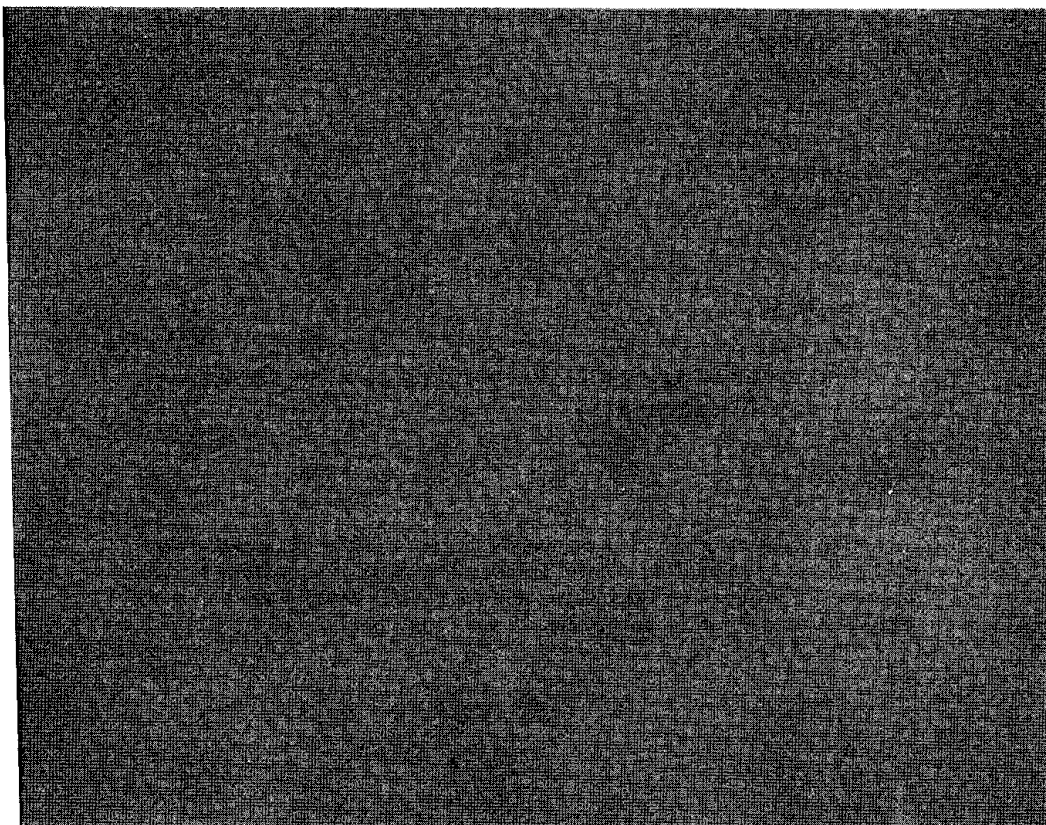
Candidates who have completed some portion of the requirements for the baccalaureate degree at other collegiate institutions may be graduated with honors when they meet the requirements listed above in addition to completing a minimum of 45 semester hours of credit at The University of Texas at San Antonio.

No degree candidate shall be eligible for graduation with honors if, at the time of graduation, he has disciplinary action on his official records in the Registrar's Office.

Graduation Dates

Degrees are conferred at the end of each semester and at the end of the second summer session. Formal public ceremonies are held only at the conclusion of the spring semester. Students who wish to participate in commencement ceremonies at the close of the spring semester and who have graduated during the previous summer or fall terms may do so. Information on the procedures to be followed is available in the Registrar's Office.

VII. Summary of Undergraduate Degree Programs and Support Areas for 1975-76



The following undergraduate degree programs are available *at the upper-division level only* during 1975-76.* Detailed requirements for each degree are found in Section VIII of the present catalog.

Bachelor of Business Administration (BBA)

Accounting

- Concentrations: (1) Accounting
(2) Business Data Systems

Economics

Finance

Management

- Concentrations: (1) Business Management
(2) Industrial Management
(3) Marketing Management
(4) Office Management
(5) Personnel Management

Bachelor of Arts (BA)

Anthropology

Early Childhood and Elementary Education

Economics

English

History

Humanities

Political Science

Spanish

Bachelor of Science (BS)

Biology

Chemistry

Mathematics, Computer Science, and Systems Design

Medical Technology

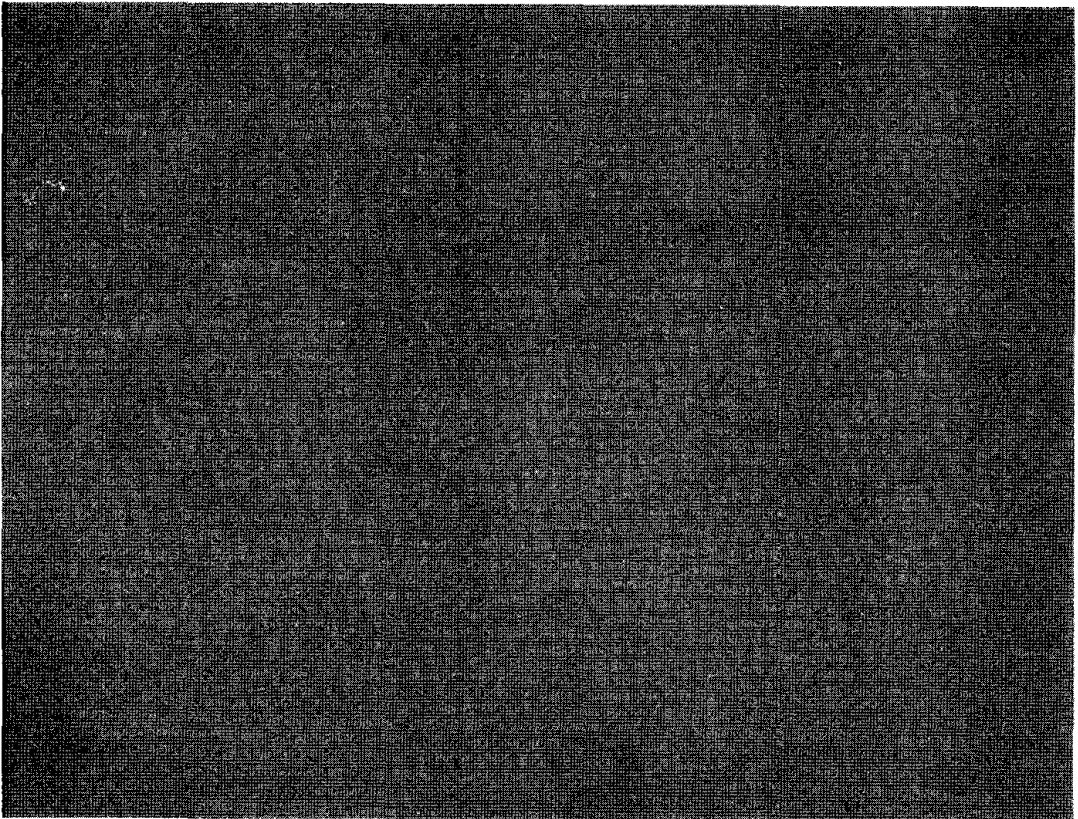
*Only courses whose first number is a 3 or 4 (signifying upper-division courses) will be offered in 1975-76. Individual upper-division courses may be postponed if facilities are unavailable or if enrollments or resources and space limitations do not warrant their implementation.

Additional undergraduate courses are available in the following support areas during 1975-76.*

Art
Astronomy
Bicultural-Bilingual Studies
Business Law
Classics
Educational Psychology (Special Education)
English as a Second Language
Environmental Management
French
German
History of Art and Criticism
Linguistics
Music
Philosophy
Physics
Psychology
Sociology

*Only courses whose first number is a 3 or 4 (signifying upper-division courses) will be offered in undergraduate support areas in 1975-76. Individual upper-division courses may be postponed if facilities are unavailable or if enrollments or resource and space limitations do not warrant scheduling or continuation of a particular course.

VIII. Undergraduate Degree Programs and Course Descriptions



College of Business

The purpose of the College of Business at the undergraduate level is to meet the needs of students in terms of education and preparation for productive and rewarding professional careers. This focus requires the College to be alert and responsive to the local, regional, and national needs of business, industry, and government. Since the needs of individuals and employers will change over time, the educational program of the College also prepares the students to be adaptive in a changing society and business world. Theoretical concepts are blended with practical applications, and the geographic location of The University is used to advantage in interaction with Mexico.

General Education Requirements as Applied in the College of Business

English	ENG 1013, 1023, 1043
Foreign Language	9 semester hours
History	6 semester hours
Political Science	6 semester hours
Mathematics	MAT 1011, 1022, 1031, 1043, 1051, 1062
Fine and Applied Arts	3 semester hours
Group A Elective (English, Foreign Language and Linguistics, Classics, Philosophy, Fine and Applied Arts)	3 semester hours
Group B Elective (Biological Science, Physical and Earth Science, Mathematics and Systems Design)	3 semester hours
Library Study	LIB 1001

DIVISION OF ACCOUNTING AND BUSINESS DATA SYSTEMS

The Division of Accounting and Business Data Systems is responsible for preparing students majoring in this area for careers in business and government. The courses have been planned to give students the necessary academic training for the design and implementation of data information systems. Students who major in the Division of Accounting and Business Data Systems will be prepared to accept responsibilities professionally and to be aware of their responsibilities to society. Concentrations are offered in: (1) Accounting and (2) Business Data Systems.

BACHELOR OF BUSINESS ADMINISTRATION DEGREE IN ACCOUNTING

The minimum number of semester hours required for this degree, including the 50 hours of General Education Requirements,* is 128.

All candidates for the degree must complete:

- A. 24 semester hours in the *major*, 18 of which must be at the upper-division level.

Required courses are: ACC 2013, 2023, 3013, 3023, 3033, 3043, 4013, plus three semester hours of accounting electives.

- B. 36 semester hours of *support work*, 30 of which must be at the upper-division level.

Required courses are: BLW 3013, 3023; ECO 2013, 2023, 3033; FIN 3013; MGT 3013, 3023, 3033, 3043,** 4903; MKT 3013.

*The 50 hours of General Education Requirements are distributed in the College of Business as set out above under General Education Requirements as Applied in the College of Business.

**MGT 3043 may be absolved with credit through challenge by examination.

- C. 3 semester hours of *required electives* in anthropology, sociology, or psychology.
- D. 15 semester hours of *free electives*, of which 9 must be at the upper-division level.

COURSE DESCRIPTIONS

ACCOUNTING

(ACC)

2013 FUNDAMENTALS OF ACCOUNTING I

(3-2) 3 hours credit.

An introduction to the basic concepts of financial accounting. A course to provide coverage of the fundamental aspects of the accounting discipline by focusing on significant financial issues.

2023 FUNDAMENTALS OF ACCOUNTING II

(3-2) 3 hours credit. Prerequisite: ACC 2013.

A continuation of Fundamentals of Accounting I, with an introduction to the concepts of accounting for planning and control and the measurement of internal performance.

3013 MANAGERIAL ACCOUNTING AND COST CONTROLS

(3-0) 3 hours credit. Prerequisite: ACC 2023.

An in-depth study of cost accounting and managerial controls which provide data for planning and controlling routine manufacturing operations, long-range planning, inventory valuation and income determination.

3023 INTERMEDIATE ACCOUNTING I

(3-0) 3 hours credit. Prerequisite: ACC 2023.

A study of accounting theory and concepts. Analysis of the special problems which arise in applying these concepts to financial accounting and reporting.

3033 INTERMEDIATE ACCOUNTING II

(3-0) 3 hours credit. Prerequisite: ACC 3023.

A continuation of the study of accounting theory and concepts of Intermediate Accounting I.

3043 FEDERAL INCOME TAX ACCOUNTING

(3-0) 3 hours credit. Prerequisite: ACC 2023.

Fundamentals of federal income tax accounting, with emphasis on individual income tax; income inclusions and exclusions and statutory deductions in computing tax liability.

4013 PRINCIPLES OF AUDITING

(3-0) 3 hours credit. Prerequisite: ACC 3023.

A study of public accounting, auditing theory, professional ethics and auditing procedures and problems. The development of audit programs, evidential matter and professional reports.

4023 COST ANALYSIS

(3-0) 3 hours credit. Prerequisite: ACC 3013.

A study of advanced cost accounting systems, variance analysis,

cost-volume-profit relationships, capital budgeting and relevant costs.

4033 ADVANCED ACCOUNTING I

(3-0) 3 hours credit. Prerequisite: 15 semester hours of accounting.

A study of specialized areas of accounting, including partnerships, estates and trusts, corporate liquidations and business combinations.

4043 CONSOLIDATED STATEMENTS AND INTERNATIONAL ACCOUNTING

(3-0) 3 hours credit. Prerequisite: 15 semester hours of accounting.

A study of the principles of consolidated financial statements and the accounting problems of multi-national corporations.

4053 ACCOUNTING FOR GOVERNMENTAL AND NOT-FOR-PROFIT ORGANIZATIONS

(3-0) 3 hours credit. Prerequisite: 15 semester hours of accounting.

A study of accounting, budgeting, fiscal procedures and financial records of governmental agencies and private not-for-profit organizations.

4063 ADVANCED FEDERAL INCOME TAX

(3-0) 3 hours credit. Prerequisite: 15 semester hours of accounting.

A study of the Internal Revenue Code concentrating on specialized corporation tax problems; partnership taxes and estate and gift taxes.

4073 TAX RESEARCH METHODS

(3-0) 3 hours credit. Prerequisite: ACC 4063.

A study of tax research methods and materials and the history of the Internal Revenue Code. Collection and appeals procedures in the Internal Revenue Service.

4083 BUDGETING, PLANNING AND FORECASTING

(3-0) 3 hours credit. Prerequisite: 15 semester hours of accounting.

A study of the techniques of long-range budgeting, including methods and limits of accounting models used in forecasting.

4093 INTERNSHIP IN ACCOUNTING

4096 (0-3 or 6) 3 or 6 hours credit. Prerequisite: 15 semester hours in accounting.

To provide students with knowledge gained through experiential activities in professional life. Joint cooperation with business and governmental institutions in structuring and monitoring work experience aimed at supplementing the classroom learning process.

**BACHELOR OF BUSINESS ADMINISTRATION
DEGREE IN ACCOUNTING WITH A
CONCENTRATION IN BUSINESS DATA
SYSTEMS**

The minimum number of semester hours required for this degree, including the 50 hours of General Education Requirements,* is 128.

All candidates for the degree must complete:

- A. 24 semester hours in the *major*, 12 of which must be at the upper-division level.

Required courses are: ACC 2013, 2023, 3013; BDS 3043, 3053, 3063, plus six semester hours of business data systems or mathematics electives.

- B. 36 semester hours of *support work*, 30 of which must be at the upper-division level.

Required courses are: BLW 3013, 3023; ECO 2013, 2023, 3033; FIN 3013; MGT 3013, 3023, 3033, 3043,** 4903; MKT 3013.

- C. 3 semester hours of *required electives* in anthropology, sociology, or psychology.

- D. 15 semester hours of *free electives*, of which 9 must be at the upper-division level.

*The 50 hours of General Education Requirements are distributed in the College of Business as set out above under General Education Requirements as Applied in the College of Business.

**MGT 3043 may be absolved with credit through challenge by examination.

COURSE DESCRIPTIONS
BUSINESS DATA SYSTEMS
(BDS)

3013 ACCOUNTING INFORMATION SYSTEMS

(3-0) 3 hours credit. Prerequisite: ACC 2023 or the equivalent.

An in-depth study of computer use in accounting systems. Payroll systems, accounts receivable, accounts payable, inventory accounting, tax, general ledger, financial statements, cost and budget analysis.

3023 COMPUTER APPLICATIONS IN MARKETING

(3-0) 3 hours credit. Prerequisite: MKT 3013.

Projects utilizing the computer in collection, reduction, and analysis of marketing information.

3033 COMPUTER APPLICATIONS IN FINANCE

(3-0) 3 hours credit. Prerequisite: FIN 3013.

Projects in computer applications to stock and bond market analysis, real estate analysis, financial statement analysis, and other forms of financial analysis.

3043 BUSINESS-ORIENTED COMPUTER LANGUAGES

(3-0) 3 hours credit. Prerequisite: MAT 1043.

Special purpose computer languages such as COBOL and RPG. The development of program logic, file description, input, calculation, and output of practical business-oriented problems on computer systems.

3053 BUSINESS SYSTEMS ANALYSIS

(3-0) 3 hours credit. Prerequisite: BDS 3043.

Case studies in management information, financial and cost accounting, inventory, personnel, and other business functions, emphasizing problem definition, data gathering, analysis, synthesis, specification, development, documentation, and implementation.

3063 DATA STRUCTURES AND INFORMATION RETRIEVAL

(3-0) 3 hours credit. Prerequisite: BDS 3053.

Techniques of designing and implementing data management systems including file organization, file maintenance, retrieval and display, selection of computer systems, and data structures.

4963 INTERNSHIP IN BUSINESS DATA SYSTEMS

4966 (0-3 or 6) 3 or 6 hours credit.

To provide students with knowledge gained through experiential activities in professional life. Joint cooperation with business and governmental institutions in structuring and monitoring work experience aimed at supplementing the classroom learning process.

DIVISION OF ECONOMICS AND FINANCE

The Division of Economics and Finance provides undergraduate study leading to both the B.B.A. and the B.A. degrees in Economics and the B.B.A. in Finance. The primary academic objective of the Division at the undergraduate level is the development of programs, courses, and internships which will give students an opportunity to acquire aptitudes and perceptions necessary in a dynamic and increasingly complex social and physical environment. The courses and experiences offered are intended to build recognizable and practical skills while expanding the intellectual flexibility of the individual. Programs in the Division have been designed with numerous options that allow the student to discover specific areas of interest. The alternatives offered are especially relevant to the geographic area served by The University, since economic development, trade, and finance are important for understanding both regional and international problems of the Southwest.

BACHELOR OF BUSINESS ADMINISTRATION DEGREE IN ECONOMICS

The minimum number of semester hours required for this degree, including the 50 hours of General Education Requirements,* is 128.

All candidates for the degree must complete:

- A. 27 semester hours in the *major*, 21 of which must be at the upper-division level.

Required courses are: ECO 2013, 2023, 3033, 3053, 3113, plus twelve hours of economics electives.

- B. 33 semester hours of *support work*, 24 of which must be at the upper-division level.

Required courses are: ACC 2013, 2023, 3013; BLW 3013 or ECO 3213; FIN 3013; MGT 3013, 3043,** 4903; MKT

*The 50 hours of General Education Requirements are distributed in the College of Business as set out above under General Education Requirements as Applied in the College of Business.

**MGT 3043 may be absolved with credit through challenge by examination.

3013; plus three semester hours of College of Business elective plus three semester hours of social science elective.

- C. 3 semester hours of *required electives* in anthropology, sociology, or psychology.
- D. 15 semester hours of *free electives*, of which 9 must be at the upper-division level.

BACHELOR OF ARTS DEGREE IN ECONOMICS

The minimum number of semester hours required for this degree, including the 50 hours of General Education Requirements,* is 125.**

All candidates for the degree must complete:

- A. 27 semester hours in the *major*, 21 of which must be at the upper-division level.

Required courses are ECO 2013, 2023, 3013, 3053, 3113, plus 12 semester hours of economics electives.

- B. 18 semester hours of *support work* as follows: ACC 2013 plus 6 semester hours of electives in the College of Business plus 9 semester hours of social science electives.

- C. 3 semester hours of *required electives* in anthropology, sociology, or psychology.

- D. 27 semester hours of *free electives*, but no more than 9 semester hours of this group may be in additional economics courses.

COURSE DESCRIPTIONS

ECONOMICS

(ECO)

2013 THE NATIONAL ECONOMY IN THEORY AND POLICY

(3-0) 3 hours credit.

Economic analysis at the national level, including determination of aggregate income and employment, operation of the monetary system, short-term income fluctuations, long-term income growth, public policy toward business, and problems of international trade and finance.

2023 ECONOMICS OF ADMINISTRATIVE AND CONSUMER DECISIONS

(3-0) 3 hours credit.

The application of economic theory to decision-making by consumers and administrators; demand and cost analysis (including

*The 50 hours of General Education Requirements are distributed in the College of Business as set out above under General Education Requirements as Applied in the College of Business.

**Thirty-nine of the total semester hours required for the degree must be at the upper-division level.

demand forecasts); price policy of the individual firm; production analysis; cost-benefit analysis for the public sector.

3013 THEORY OF PRICE

(3-0) 3 hours credit. Prerequisites: ECO 2013 or the equivalent and ECO 2023 or the equivalent.

Operation of individual markets; market structure; theory of the firm; theory of production; demand theory; general equilibrium and welfare economics.

3033 MANAGERIAL ECONOMICS

(3-0) 3 hours credit. Prerequisites: ECO 2013 or the equivalent and ECO 2023 or the equivalent.

Review and extension of micro and macroeconomic analysis with applications in the area of administration problems; analysis of market systems and firm behavior; introduction to linear programming and capital budgeting; examination of public and private decision making and economic issues.

3053 AGGREGATE ECONOMIC ANALYSIS

(3-0) 3 hours credit. Prerequisites: ECO 2013 or the equivalent and ECO 2023 or the equivalent.

Analysis of the measurement, determination, and control of aggregate economic activity; the monetary system in relation to income and employment; short-term income fluctuations; long-term growth.

3113 INTRODUCTION TO MATHEMATICAL ECONOMICS

(3-0) 3 hours credit. Prerequisite: ECO 3013 or the equivalent or ECO 3033 or the equivalent.

Mathematical formulation of economic theory; mathematical treatment of optimizing behavior; applications to consumer and business firm theory; value, economic strategies, growth and stability; emphasis on understanding of analytical techniques.

3123 ECONOMETRICS

(3-0) 3 hours credit. Prerequisite: ECO 3113 or the equivalent.

Introduction to measurement in economics; numerical evaluation of mathematical models by statistical methods; survey of classical models; scope and method of econometric analysis.

3163 DEVELOPMENT OF ECONOMIC THOUGHT

(3-0) 3 hours credit.

Evolution of economic theory and doctrine; contributions to economic thought from ancient times to the present; emphasis on institutional forces shaping the continuum of economic thinking.

3173 COMPARATIVE ECONOMIC SYSTEMS

(3-0) 3 hours credit.

Analysis of alternative economic systems of the industrialized and emerging nations; emphasis on the comparative study of the capitalist, socialist, and the communist economic systems of the modern world.

- 3183 ECONOMIC DEVELOPMENT OF THE UNITED STATES**
 (3-0) 3 hours credit. Prerequisite: ECO 2013 or the equivalent.
 The growth of the American economy from colonial times to the present; special emphasis on the market forces, institutional arrangements, and policies contributing to this process.
- 3193 THE INTERNATIONAL ECONOMY**
 (3-0) 3 hours credit. Prerequisite: ECO 2013 or the equivalent, or ECO 2023 or the equivalent, or consent of instructor.
 Principles of international trade; significance of geographic, economic, social and political influences; current problems in international trade and payments; tariffs and commercial policy; role of international organizations.
- 3213 GOVERNMENT REGULATION OF INDUSTRY**
 (3-0) 3 hours credit. Prerequisite: ECO 2023 or the equivalent or consent of instructor.
 A study of competition enforced by law, including the legal, social, and economic aspects of mergers, pricing policies, monopolization and market concentration.
- 3273 PUBLIC CHOICE AND THE PUBLIC FINANCES**
 (3-0) 3 hours credit. Prerequisite: ECO 3013 or the equivalent or ECO 3033 or the equivalent.
 Analysis of administrative and legislative decisions applicable to public goods and services; government expenditure policy; sources of revenue; public credit; fiscal policy, principles and methods of taxation and financial administration.
- 3283 LABOR ECONOMICS AND COLLECTIVE BARGAINING**
 (3-0) 3 hours credit. Prerequisite: ECO 2013 or the equivalent, or ECO 2023 or the equivalent, or consent of instructor.
 Economic problems and issues of trade union organization and wage theory; job security, hours, working conditions; labor legislation, unemployment, and discrimination.
- 3303 THEORIES OF ECONOMIC PROGRESS**
 (3-0) 3 hours credit. Prerequisite: ECO 2013 or the equivalent or consent of instructor.
 Dynamics of economic progress and change in industrialized and under-industrialized countries of the modern world; historical theories of growth; empirical case studies; formulation of development projects and programs.
- 3313 MONEY AND CAPITAL MARKETS**
 (3-0) 3 hours credit. Prerequisite: ECO 2013 or the equivalent.
 Elements of monetary theory; relationships between money, prices, production and employment; factors determining money supply; operation of capital markets with reference to the United States. This course may be taken as FIN 3313.
- 3403 ECONOMIC ASPECTS OF URBANIZATION**
 (3-0) 3 hours credit. Prerequisite: ECO 2013 or the equivalent.

Application of economic analysis to urban growth and the urban-regional environment; consideration of public services, transportation, ghetto problems, and urban organization; analysis of environmental protection problems and policies.

4273 ENVIRONMENTAL ECONOMICS

(3-0) 3 hours credit. Prerequisite: ECO 3013 or the equivalent, or ECO 3033 or the equivalent, or consent of instructor.

Economic principles applied to environmental problems; relationship of market and nonmarket forces to environmental quality; development of tools for policy analysis.

4283 MANPOWER ECONOMICS: PROBLEMS AND PROGRAMS

(3-0) 3 hours credit. Prerequisite: ECO 3013 or the equivalent or ECO 3033 or the equivalent.

Economics of human resource development; examination of programs for training and upgrading of workers; barriers to skill development and job entry; formulation of public policies on human resources.

4293 ECONOMICS OF DISCRIMINATION AND POVERTY

(3-0) 3 hours credit. Prerequisite: ECO 3013 or the equivalent, or ECO 3033 or the equivalent, or consent of instructor.

Economic and non-economic implications of discrimination on the basis of race and sex; discrimination in the labor and commodity markets; problems of educational training, unemployment, and personal income distribution.

4303 ECONOMIC PROBLEMS OF EMERGING NATIONS

(3-0) 3 hours credit. Prerequisite: ECO 2013 or the equivalent, or consent of instructor.

Specific economic problems of emerging nations and national groupings; basic approaches to economic development; major proposals for accelerating development; role of planning; trade, aid and economic integration.

4313 MONETARY THEORY AND POLICY

(3-0) 3 hours credit. Prerequisites: ECO 3053 or the equivalent and ECO 3313 or the equivalent.

Relationship of money and interest rate to economic stabilization; consideration of federal reserve system, money market, and factors determining money supply and demand; neo-Keynesian, Chicago, and radical policy views.

4363 THE LATIN AMERICAN ECONOMIES

(3-0) 3 hours credit. Prerequisite: ECO 2013 or the equivalent.

Survey of economic status and problems of Latin American nations; analysis of economic and social forces at work in Latin American development. (When offered in Spanish, course schedule will so indicate.)

4463 MEDICAL AND HEALTH ECONOMICS

(3-0) 3 hours credit. Prerequisite: ECO 3013 or the equivalent or ECO 3033 or the equivalent.

Economic analysis of medical and health services. Physician and dentist pricing; hospital supply; markets in health-related professions; drug and equipment markets; medical and health insurance; national priorities and policy for health service delivery.

4493 ECONOMICS OF THE TRANSPORTATION INDUSTRY

(3-0) 3 hours credit. Prerequisite: ECO 3013 or the equivalent or ECO 3033 or the equivalent.

Economic analysis applied to specific problems of transport. Effects of location and transportation cost on firm behavior; public regulation and policy; capacity, rate structure, service areas; problems of urban mass transportation.

4963 INTERNSHIP IN ECONOMICS

4966 (0-3 or 6) 3 or 6 hours credit. Prerequisite: 12 hours of upper-level economics.

Work experience in research or applied economics; may be undertaken either in private business or a public agency; opportunities developed in consultation with faculty Advisor and Division Director and require approval of both.

BACHELOR OF BUSINESS ADMINISTRATION DEGREE IN FINANCE

The minimum number of semester hours required for this degree, including the 50 hours of General Education Requirements,* is 128.

All candidates for the degree must complete:

- A. 18 semester hours in the *major*, 18 of which must be at the upper-division level.

Required courses are: FIN 3013, 3033, 3313, plus either FIN 3423 and 4423, or FIN 3423 and 4423, or FIN 3413 and 4313, or FIN 4713 and 4723, or FIN 4813 and 4823, plus 3 semester hours of finance elective.

- B. 42 semester hours of *support work*, 30 of which must be at the upper-division level.

Required courses are: ACC 2013, 2023, 3013; BLW 3013 or ECO 3213; ECO 2013, 2023, 3033; FIN 3013; MGT 3013, 3023, 3033, 3043,** 4903; MRK 3013, plus 3 semester hours of College of Business elective.

- C. 3 semester hours of *required electives* in anthropology, sociology, or psychology.

- D. 15 semester hours of *free electives*, of which 9 must be at the upper-division level.

COURSE DESCRIPTIONS

FINANCE

(FIN)

3013 THE FINANCE FUNCTION

(3-0) 3 hours credit. Prerequisite: ACC 2023 or the equivalent.

Introduction to analytical financial management with emphasis on the management of the short-term uses and sources of funds; capital investment and management of long-term fund sources.

3033 PRINCIPLES OF INVESTMENT

(3-0) 3 hours credit. Prerequisite: FIN 3013 or the equivalent.

Introduction to securities markets; analysis of securities issued by

*The 50 hours of General Education Requirements are distributed in the College of Business as set out above under General Education Requirements as Applied in the College of Business.

**MGT 3043 may be absolved with credit through challenge by examination.

corporations in various industries, by intermediaries, and by federal, state, and municipal governments; investment management in the light of tax considerations, timing, and selected portfolio needs.

3313 MONEY AND CAPITAL MARKETS

This course is offered as ECO 3313 and is described with the Economics course listings.

3403 PROBLEMS IN FINANCIAL MANAGEMENT

(3-0) 3 hours credit. Prerequisite: FIN 3013 or the equivalent.

Advanced analysis in financial management; decision criteria applied to problems of obtaining, channeling, and applying funds, integrated with specific environmental settings and institutional detail.

3413 FINANCIAL INSTITUTIONS

(3-0) 3 hours credit. Prerequisite: FIN 3313 or the equivalent.

Introduction to management of asset and liability structures of primary financial intermediaries, including commercial banks, life and casualty insurance enterprises, thrift institutions, investment banks, and pension funds as they interact in the markets; emphasis on lending functions.

3423 SECURITY ANALYSIS

(3-0) 3 hours credit. Prerequisite: FIN 3033 or the equivalent.

Advanced financial analysis; examination of statements and supplementary data of industrial, commercial, financial intermediary, and public utility enterprises; preparation of reports relevant to achieving an understanding of financial management policies.

4303 FINANCIAL THEORY

(3-0) 3 hours credit. Prerequisites: FIN 3013 or the equivalent and MGT 3033 or the equivalent.

Analysis of financial models and model-building in the light of real-world financial management problems and approaches; consideration of applicability of specific models under various institutional and environmental circumstances.

4313 COMMERCIAL BANK MANAGEMENT

(3-0) 3 hours credit. Prerequisite: FIN 3313 or the equivalent.

Direction and coordination of the various functions of the commercial bank, including money position, lending, capital management, trust and auxiliary functions.

4373 MANAGEMENT OF THE LENDING FUNCTION

(3-0) 3 hours credit. Prerequisite: FIN 3313 or the equivalent.

Detailed analysis of lending as practiced by financial intermediaries; emphasis on total appraisal of credit worthiness as consistent with institutional constraints; evaluation of alternative lending opportunities.

4403 CAPITAL STRUCTURE AND BUDGETING

(3-0) 3 hours credit. Prerequisite: FIN 3403 or the equivalent.

Application of long-term economic decision analysis to financial planning in both profit and non-profit institutions; development of

allocation criteria for sources and uses of scarce financial resources.

4423 INVESTMENT PORTFOLIO MANAGEMENT

(3-0) 3 hours credit. Prerequisite: FIN 3033 or the equivalent.

Application of investment principles to management of investment portfolios of individuals and institutions; consideration of business cycles, investment constraints, portfolio construction, investment timing, and securities selection.

4523 MANAGEMENT OF RISK

(3-0) 3 hours credit. Prerequisite: FIN 3033 or the equivalent.

Application and evaluation of quantitative tools of analysis in the risk-management decision process; nature of risk and risk-aversion; insurance as a major mechanism for spreading risk.

4543 FINANCE OF NON-PROFIT ORGANIZATIONS

(3-0) 3 hours credit. Prerequisite: FIN 3013 or the equivalent.

Types of non-profit organizations and their functions; budget development and income generation; the decision process in the provision of services; analytical approaches in managerial finance of non-profit institutions.

4563 HOSPITAL FINANCIAL MANAGEMENT

(3-0) 3 hours credit. Prerequisite: FIN 3013 or the equivalent.

The special problems of financial management of health care delivery systems, medical insurance programs, and health maintenance organizations; issues in fund-raising; application of cost-benefit analysis to situations concerning human life and welfare.

4613 INTRODUCTION TO INTERNATIONAL FINANCE

(3-0) 3 hours credit. Prerequisite: FIN 3013 or the equivalent.

Study of underlying forces in international financial relations and the unique problems of international trade, investments, and operations; examination of multi-national business finance and its economic, legal, and political dimensions.

4713 MORTGAGE BANKING AND REAL ESTATE FINANCE

(3-0) 3 hours credit. Prerequisites: FIN 3013 or the equivalent and FIN 3313 or the equivalent.

Planning, structure, and analysis of real estate financing from the viewpoints of both the users and suppliers of funds; examination of various techniques and legal instruments; institutional constraints and their effects on real estate lending activities.

4723 URBAN LAND ACQUISITION AND DEVELOPMENT

(3-0) 3 hours credit. Prerequisite: FIN 4713 or the equivalent.

Examination of urban real estate and its planning; implications of institutional-legal constraints; economic considerations in land use; financial strategies; relationship of land use to quality of the urban environment.

4813 THE INSURANCE FUNCTION

(3-0) 3 hours credit. Prerequisite: FIN 3013 or the equivalent.

Analysis of insurance as a principal method of handling risk; types

of insurance and contracts; determinants of premiums and resources; applicable legal principles.

4823 FINANCING INSURANCE OPERATIONS

(3-0) 3 hours credit. Prerequisite: FIN 3013 or the equivalent.

Organization of insurance enterprises and related businesses; examination of underwriting function and practices; coverage supplied by the individual firm; insurance company investments and their management.

4963 INTERNSHIP IN FINANCE

4966 (0-3 or 6) 3 or 6 hours credit. Prerequisite: 12 hours of upper-level finance.

Work experience in research or financial operations, including real estate and insurance; may be undertaken in either private business or a public agency; opportunities developed in consultation with faculty Advisor and Division Director and requires approval of both.

COURSE DESCRIPTIONS

BUSINESS LAW

(BLW)

3013 BUSINESS LAW

(3-0) 3 hours credit.

Origin and development of law, judicial procedure, tort law, contracts, and wills, with emphasis on consumer—business rights and responsibilities.

3023 PROPERTY, CONTRACTS, AND COMMERCIAL LAW

(3-0) 3 hours credit. Prerequisite: BLW 3013 or the equivalent.

Law regarding property, sales, bailments, security devices, partnerships, and corporations, with emphasis on the Uniform Commercial Code.

3523 REAL ESTATE LAW

(3-0) 3 hours credit. Prerequisite: BLW 3013 or the equivalent.

Legal environment of real property ownership, transfer and legal brokerage; estates in land, sales contracts; mortgage transactions; title conveyances; landlord and tenant; restrictions and zoning; eminent domain.

DIVISION OF MANAGEMENT

The Bachelor of Business Administration Degree in Management is designed for those who desire a broad undergraduate preparation in business. The flexibility of the curricula makes it possible for students to be prepared to pursue a variety of managerial careers. Specific options assist the student to prepare for positions in both the private and public sector. Concentrations are offered in: (1) Business Management; (2) Industrial Management; (3) Marketing Management; (4) Office Management; and (5) Personnel Management.

BACHELOR OF BUSINESS ADMINISTRATION DEGREE IN MANAGEMENT WITH A CONCENTRATION IN BUSINESS MANAGEMENT

The minimum number of semester hours required for this degree, including the 50 hours of General Education Requirements,* is 128.

All candidates for the degree must complete:

- A. 21 semester hours in the *major*, all of which must be at the upper-division level.

Required courses are: MGT 3013, 3023, 3033, 3043,** and 4903.

- B. 39 semester hours of *support work*, 27 of which must be at the upper-division level.

Required courses are: ACC 2013, 2023, 3013, 3023; BLW 3013 or ECO 3213; ECO 2013, 2023, 3033, 3053; FIN 3013; MRK 3013; plus 3 semester hours each in finance and marketing electives.

- C. 3 semester hours of *required electives* in anthropology, sociology, or psychology.

- D. 15 semester hours of *free electives*, of which 9 must be at the upper-division level.

*The 50 hours of General Education Requirements are distributed in the College of Business as set out above under General Education Requirements as Applied in the College of Business.

**MGT 3043 may be absolved with credit through challenge by examination.

**BACHELOR OF BUSINESS ADMINISTRATION
DEGREE IN MANAGEMENT WITH A
CONCENTRATION IN INDUSTRIAL
MANAGEMENT**

The minimum number of semester hours required for this degree, including the 50 hours of General Education Requirements,* is 128.

All candidates for the degree must complete:

- A. 18 semester hours in the *major*, all of which must be at the upper-division level.

Required courses are: MGT 3033, 3343 (6 hours); plus either MGT 3333, 3353, 4603 (9 hours), or 3313, 3323, 4593 (9 hours); and 3 semester hours of management electives.

- B. 42 semester hours of *support work*, 30 of which must be at the upper-division level.

Required courses are: ACC 2013, 2023, 3013; BLW 3013 or ECO 3213; ECO 2013, 2023, 3033; FIN 3013; MGT 3013, 3023, 3043,** 4903; MKT 3013; plus 3 additional semester hours of support work.

- C. 3 semester hours of *required electives* in anthropology, sociology, or psychology

- D. 15 semester hours of *free electives*, of which 9 must be at the upper-division level.

*The 50 hours of General Education Requirements are distributed in the College of Business as set out above under General Education Requirements as Applied in the College of Business.

**MGT 3043 may be absolved with credit through challenge by examination.

**BACHELOR OF BUSINESS ADMINISTRATION
DEGREE IN MANAGEMENT WITH A
CONCENTRATION IN MARKETING
MANAGEMENT**

The minimum number of semester hours required for this degree, including the 50 hours of General Education Requirements,* is 128.

All candidates for the degree must complete:

- A. 18 semester hours in the *major*, all of which must be at the upper-division level.

Required courses are: MKT 3013, 3023, 3033, 4083, 4893 plus 3 semester hours of marketing elective.

- B. 42 semester hours of *support work*, 30 of which must be at the upper-division level.

Required courses are: ACC 2013, 2023, 3013; BLW 3013 or ECO 3213; ECO 2013, 2023, 3033; FIN 3013; MGT 3013, 3023, 3033, 3043,** 4903; plus 3 additional semester hours of support work.

- C. 3 semester hours of *required electives* in anthropology, sociology, or psychology.

- D. 15 semester hours of *free electives*, of which 9 must be at the upper-division level.

*The 50 hours of General Education Requirements are distributed in the College of Business as set out above under General Education Requirements as Applied in the College of Business.

**MGT 3043 may be absolved with credit through challenge by examination.

**BACHELOR OF BUSINESS ADMINISTRATION
DEGREE IN MANAGEMENT WITH A
CONCENTRATION IN OFFICE
MANAGEMENT***

The minimum number of semester hours required for this degree, including the 50 hours of General Education Requirements,** is 128.

All candidates for the degree must complete:

- A. 18 semester hours in the *major*, all of which must be at the upper-division level.

Required courses are: OFM 3303, 3343, 4893, plus 9 semester hours of electives in management or office management.

- B. 42 semester hours of *support work*, 30 of which must be at the upper-division level.

Required courses are: ACC 2013, 2023, 3013; BLW 3013 or ECO 3213; ECO 2013, 2023, 3033; FIN 3013; MGT 3013, 3023, 3043,*** 4903; MKT 3013, plus 3 semester hours of electives in the College of Business.

- C. 3 semester hours of *required electives* in anthropology, sociology, or psychology.

- D. 15 semester hours of *free electives*, of which 9 must be at the upper-division level.

*To be eligible for the beginning course in office management, OFM 3303, the student must present to the undergraduate Advisor in the Division of Management certification in typewriting of sustained ability of 60/5 wpm with material of high syllabic intensity — no less than 1.5.

**The 50 hours of General Education Requirements are distributed in the College of Business as set out above under General Education Requirements as Applied in the College of Business.

***MGT 3043 may be absolved with credit through challenge by examination.

BACHELOR OF BUSINESS ADMINISTRATION DEGREE IN MANAGEMENT WITH A CONCENTRATION IN PERSONNEL MANAGEMENT

The minimum number of semester hours required for this degree, including the 50 hours of General Education Requirements,* is 128.

All candidates for the degree must complete:

- A. 18 semester hours in the *major*, all of which must be at the upper-division level.

Required courses are: MGT 3013, 3613, 3623, 3633, 4803, plus 3 semester hours of management elective.

- B. 42 semester hours of *support work*, 30 of which must be at the upper-division level.

Required courses are: ACC 2013, 2023, 3013; BLW 3013 or ECO 3213; ECO 2013, 2023, 3033; FIN 3013; MGT 3023, 3033, 3043,** 4903; MKT 3013, plus 3 semester hours of College of Business elective.

- C. 3 semester hours of *required electives* in anthropology, sociology, or psychology.

- D. 15 semester hours of *free electives*, of which 9 must be at the upper-division level.

COURSE DESCRIPTIONS MANAGEMENT (MGT)

3013 ORGANIZATION AND MANAGEMENT THEORY

(3-0) 3 hours credit.

Study of the various organizations and management theory (empirical, behavioral, quantitative) process. Builds base for identification analysis, and synthesis of managerial concepts as related to complex organizations.

*The 50 hours of General Education Requirements are distributed in the College of Business as set out above under General Education Requirements as Applied in the College of Business.

**MGT 3043 may be absolved with credit through challenge by examination.

3023 ORGANIZATIONAL BEHAVIOR

(3-0) 3 hours credit. Prerequisite: MGT 3013 or the equivalent.

Behavioral theory and empirically-derived knowledge as it relates to the functioning of individuals, pairs, and groups in organizations. Investigation of organization as a complex of tasks, structures, tools, and people in states of continuous change.

3033 QUANTITATIVE DECISION ANALYSIS AND PRODUCTION

(3-0) 3 hours credit.

Basic techniques of decision analysis applied to problems in business and economics with an emphasis on production problems. Techniques include modeling and optimization of deterministic and non-deterministic systems in the named application areas.

3043 BUSINESS COMMUNICATIONS

(3-0) 3 hours credit.

With the aim of developing business writing proficiency, the course stresses general techniques of report writing, report organization and make-up, and graphic presentation and documentation. Special emphasis is given to the research methodology which precedes report preparation.

3123 ORGANIZATIONAL COMMUNICATIONS

(3-0) 3 hours credit. Prerequisites: MGT 3013, MGT 3023, or the equivalents.

A course stressing the importance of and problems in effective communication within the organizational setting. Special emphasis will be given to problems of horizontal and vertical communication, communication blockages, informal communication channels, and the effects of organizational structure and leadership patterns on communication. The course will also stress the means of evaluating organizational communication effectiveness.

3183 ADMINISTRATIVE PROCESS

(3-0) 3 hours credit. Prerequisite: MGT 3013 or the equivalent.

Study of the functions of management including planning, organizing, staffing, directing, and controlling. Focus on integration of managerial functions in accomplishment of the administrative tasks under conditions of risk, uncertainty, and change.

3313 STATISTICAL APPLICATIONS IN BUSINESS

(3-0) 3 hours credit. Prerequisites: ECO 2023, MGT 3033, or the equivalents.

Examples and procedures for experimental design, data collection and display, data interpretation, hypothesis testing, and forecasting in business and economics systems.

3323 SIMULATION APPLICATIONS IN BUSINESS

(3-0) 3 hours credit. Prerequisites: FIN 3013, MGT 3033, or the equivalents.

Examples of computer simulation in financial, marketing, management, and economic systems. Techniques for modeling and for analyzing models within business environments.

- 3333 MANAGEMENT INFORMATION SYSTEMS**
(3-0) 3 hours credit. Prerequisites: MGT 3013, MGT 3033, or the equivalents.
A study of the information needs of business and automated methods of acquiring, storing, updating, and retrieving useful information.
- 3343 PRODUCTION MANAGEMENT APPLICATIONS**
(3-0) 3 hours credit. Prerequisites: MGT 3013, MGT 3033, or the equivalents.
Applications of modeling and optimization techniques in inventory, production, and quality control with related considerations of reliability, maintenance, and transportation.
- 3353 LOGISTICS MANAGEMENT**
(3-0) 3 hours credit. Prerequisite: MGT 3033 or the equivalent.
A study of procurement needs, acquisition methods, and transportation and distribution structures. Techniques for analysis of logistics system alternatives.
- 3613 PERSONNEL ADMINISTRATION**
(3-0) 3 hours credit.
Policies and practices related to the design and administration of the personnel activity. Employee recruitment, selection, development, evaluation, and compensation given emphasis.
- 3623 WAGE AND SALARY ADMINISTRATION**
(3-0) 3 hours credit. Prerequisite: MGT 3613 or the equivalent.
Development and administration of wage and salary programs for organizations. Emphasis upon objectives, policies, organization, and control of compensation systems.
- 3633 LABOR RELATIONS**
(3-0) 3 hours credit. Prerequisites: MGT 3613, MGT 3623 or the equivalents.
A contemporary analysis of the union-management relationship in both business and non-business organizations. Topics include union organizing activities, collective bargaining, and agreement administration.
- 3643 LABOR LAW**
(3-0) 3 hours credit. Prerequisite: MGT 3633 or the equivalent.
An analysis of historical and contemporary labor law in the United States. Integration of the evolution of labor law with the social and economic forces shaping the current labor-management environment.
- 4203 BUSINESS AND SOCIETY**
(3-0) 3 hours credit. Prerequisite: Upper-division standing and consent of instructor.
A study of the impact of societal influences on the managerial decision-making process. Special attention given to business-government relationships and the role of the organization in the community.

- 4593 ADVANCED QUANTITATIVE DECISION ANALYSIS**
 (3-0) 3 hours credit. Prerequisites: MGT 3313, MGT 3323, MGT 3343, or the equivalents.
 Detailed study of applications of quantitative decision analysis to policy and planning systems. Designed to provide a comprehensive understanding of the state of the art in quantitative decision analysis techniques of use in developing effective and efficient management systems.
- 4603 ADVANCED LOGISTICS**
 (3-0) 3 hours credit. Prerequisites: MGT 3333, MGT 3343, and MGT 3353.
 Detailed analysis of the management of logistics systems with specific focus on policy and planning considerations. Designed to provide a comprehensive understanding of the functional areas of logistics and the integration of these functions into an effective and efficient logistics system.
- 4803 HUMAN RESOURCES MANAGEMENT**
 (3-0) 3 hours credit. Prerequisites: MGT 3613, MGT 3623, MGT 3633, or the equivalents.
 Detailed analysis of the management of personnel systems with specific focus on policy and planning considerations. Designed to provide a comprehensive understanding of the functional areas of personnel and the integration of these functions into an effective and efficient personnel system.
- 4863 ETHICAL AND SOCIAL ISSUES IN MANAGEMENT**
 (3-0) 3 hours credit. Prerequisite: Upper-division standing and consent of instructor.
 Students challenged to order thought, values, and behavior in operational, directional, and constitutional contexts. Develops a moral frame of reference providing both individual and operational guidance contributing to social justice.
- 4883 MANAGEMENT OF ENTREPRENEURIAL ENTERPRISE**
 (3-0) 3 hours credit. Prerequisite: Upper-division standing and consent of instructor.
 Focuses on the operation of small businesses. Analysis of the accounting, finance, production, and marketing functions as they pertain to entrepreneurial endeavors. Develops overall managerial awareness.
- 4903 BUSINESS POLICIES AND MANAGEMENT**
 (3-0) 3 hours credit. Prerequisite: Upper-division standing and consent of instructor.
 Capstone integration of marketing, finance, accounting, production, procurement, personnel policies emphasized through case studies and business simulations.
- 4963 MANAGEMENT INTERNSHIP**
 4966 (0-3 or 6) 3 or 6 hours credit. Prerequisite: MGT 3103 or the equivalent.
 Knowledge gained through the experiential activities of organizational life. Joint cooperation with business, government, and

health science institutions in structuring and monitoring work experience aimed at supplementing the learning process.

COURSE DESCRIPTIONS

MARKETING MANAGEMENT

(MKT)

3013 PRINCIPLES OF MARKETING

(3-0) 3 hours credit.

Current practices and structure of markets. Analysis of functions, institutions, pricing, demand creation, costs, and legislation. Emphasis on current marketing activities.

3023 INSTITUTIONS OF MARKETING

(3-0) 3 hours credit. Prerequisite: MKT 3013 or the equivalent.

Organization of the marketing structure including retail, wholesale, and industrial marketing institutions. Managerial problems involved in marketing in such institutions will be analyzed.

3033 PRINCIPLES OF PROMOTION

(3-0) 3 hours credit. Prerequisite: MKT 3013 or the equivalent.

The nature and usefulness of promotion. Creation of demand, use of stimuli, promotional programs, media selection, setting the appropriation, analysis of effectiveness of promotion.

3043 MASS COMMUNICATIONS AND ADVERTISING

(3-0) 3 hours credit. Prerequisites: MKT 3013, 3033, or the equivalents.

A specialized course covering the theory and practice of advertising. The course stresses planning advertising strategy, developing advertising messages, selecting advertising media, and testing advertising effectiveness. Also, the course explores the theory and history of advertising, the social and economic aspects of advertising, and the problems of ethics and truth in advertising.

3053 SALES MANAGEMENT

(3-0) 3 hours credit. Prerequisite: MKT 3013 or the equivalent.

Analysis of the major problems facing the marketing manager with particular emphasis on policy matters, product planning, distribution, pricing, sales promotion, organization, and management of sales force.

3063 SALESMANSHIP

(3-0) 3 hours credit. Prerequisite: MKT 3013 or the equivalent.

Principles of modern salesmanship as applied to selling of tangibles and intangibles. A study of the salesperson in relation to the firm, the product, and the customers. Involves sales psychology and classroom demonstrations.

3073 TRANSPORTATION

(3-0) 3 hours credit. Prerequisite: MKT 3013 or the equivalent.

Analysis of shipper's transportation needs and the transportation systems available; operation and regulation of rates and services by the Interstate Commerce Commission and state commissions.

4083 MARKETING RESEARCH

(3-0) 3 hours credit. Prerequisite: MKT 3013 or the equivalent.
Research techniques applied to problems of measuring sales potential; trading area measurement; image research; sources of data; product research used as a basis for making policy and strategy determination.

4093 CONSUMER BEHAVIOR

(3-0) 3 hours credit. Prerequisite: MKT 3013 or the equivalent.
An interdisciplinary approach to studying decision making as it applies to the purchase of consumer goods. Attitudes of both consumer and marketing manager are considered to allow students to relate to both personal and professional aspects of the course content.

4103 CONTEMPORARY MARKETING

(3-0) 3 hours credit. Prerequisite: MKT 3013 or the equivalent.
Analysis of current trends in marketing problems and policies. Critical analysis of marketing, consideration of current developments in theory; activities of regulatory agencies; analysis of ethical, social, and public policy aspects of marketing changes.

4893 ADVANCED MARKETING

(3-0) 3 hours credit. Prerequisites: MKT 3023, 3033, 4083, or the equivalents.

Detailed analysis of the management of marketing systems with specific focus on policy and planning considerations. Designed to provide a comprehensive understanding of the functional areas of marketing and the integration of these functions into an effective and efficient marketing system.

4963 INTERNSHIP IN MARKETING

4966 (0-3 or 6) 3 or 6 hours credit. Prerequisite: MKT 3013 or the equivalent.

Knowledge gained through the experiential activities of organizational life. Joint cooperation with business, government, and health science institutions in structuring and monitoring work experience aimed at supplementing the learning process.

COURSE DESCRIPTIONS

OFFICE MANAGEMENT

(OFM)

3303 OFFICE MANAGEMENT

(3-0) 3 hours credit. Prerequisite: Upper-division standing and consent of instructor.

A study will be made of the authority and responsibilities of the office manager. Emphasis will be placed upon the factors affecting efficient effective office operations such as: office environment, arrangement, personnel, work stations, quality control, supervision, technological changes, and interrelationships of subsystems.

3323 EXECUTIVE SECRETARY

(3-0) 3 hours credit. Prerequisite: OFM 3303 or the equivalent.

This course will focus on the attitudes, duties, responsibilities, and problems of the secretary as an administrative assistant. Supervision, interoffice relationships, professional improvement, and other related topics will be studied and applied through class activities and case studies.

3343 ADMINISTRATIVE SYSTEMS

(3-0) 3 hours credit. Prerequisite: OFM 3303 or the equivalent.

The intent of this course is to study the principles and techniques used in analyzing, designing, initiating, and operating office subsystems. Topics on which in-depth studies will be made include: procedure analysis and documentation, records management, forms control and design, work measurement, work flow, selection and utilization of equipment, and other office subsystems.

4893 OFFICE SIMULATION

(3-0) 3 hours credit. Prerequisite: Upper-division standing and consent of instructor.

This is a capstone course which stresses the integration of theories and practices of scientific office management through a series of integrated simulated office experiences. Work stations will be established for the department manager, secretary, and other office workers. A company will be created (simulated) with at least six departments. Work in the departments will be integrated for proper work flow.

4963 INTERNSHIP IN OFFICE MANAGEMENT

4966 (0-3 or 6) 3 or 6 hours credit. Prerequisite: OFM 3303 or the equivalent.

Knowledge gained through the experiential activities of organizational life. Joint cooperation with business, government, and health science institutions in structuring and monitoring work experience aimed at supplementing the learning process.

College of Fine and Applied Arts

The College of Fine and Applied Arts through its Divisions of Art and Design and Music will provide the opportunity and preparation for students 1) to be proficient and creative in their respective fields, 2) to carry out distinguished scholarship in the history of art and music, 3) to be music teachers and 4) to enter into related fields of endeavor. These programs of study will encourage creativity and performance in art and music as well as visual and aural awareness based on a study, analysis, and evaluation of works of art, architecture, and music.

Courses open to majors and non-majors are designed to acquaint students with the nature, function, process, and meaning of the visual and aural arts. This will enable them to deal with the artistic as well as nonartistic aspects of their daily lives with intelligence and sensitivity.

DIVISION OF ART AND DESIGN

The objectives of the Division of Art and Design are two-fold. First, the Division is responsible for educating students at the highest level in art and design. This entails imparting an awareness of the history of art and the pursuits of the scholar, the practice of art and the various shapes this can take, and instilling in the students a sense of the role of the arts and artists in a contemporary society. Second, the Division believes it should be an active force in the cultural life of the San Antonio community and that UT San Antonio should be a center for the creative arts. All efforts will be made to combine these two objectives within the UT San Antonio framework of endeavoring to reflect and serve the South Texas, Southwestern United States, and the Latin American areas.

BACHELOR OF FINE ARTS DEGREE IN ART AND DESIGN WITH A CONCENTRATION IN ART

The minimum number of semester hours required for this degree, including the 50 hours of General Education Requirements, is 128. All candidates for the degree* must complete:

- A. Sixty semester hours in the *major*, 36 of which must be at the upper-division level. Required courses are ART 1116, ART 1126, ART 1136, ART 1146 (24 hours), plus one of the following specializations (12 hours):

- 1) Painting
 - ART 3113 Painting I
 - ART 3123 Painting II
 - ART 3133 Painting III
 - ART 3143 Painting IV

*Transfer students must present a portfolio of work to the Division of Art and Design prior to, or during the registration period. This portfolio should consist of examples or photographs of work from courses taken at another institution. This procedure will enable the Division to appropriately advise and counsel each individual student with regard to his degree program.

2) Drawing

ART 3213 Drawing I
ART 3223 Drawing II
ART 3233 Drawing III
ART 3243 Drawing IV

3) Photography

ART 3513 Photography I
ART 3523 Photography II
ART 3533 Photography III
ART 3543 Photography IV

4) Printmaking

ART 3613 Printmaking I
ART 3623 Printmaking II
ART 3633 Printmaking III
ART 3643 Printmaking IV

(The remaining 24 hours of the 60 must be taken in other upper-division courses.)

- B. Eighteen semester hours of *support work*. Required courses are: ART 1023, HAC 1113, HAC 1123. The remaining nine hours, three of which must be at the upper-division level, are required in any history of art and criticism courses.
- C. Special degree requirement. All students are required to have an exhibition of their senior efforts and to present to a faculty committee a written thesis placing their work in the appropriate aesthetic and historical context.

COURSE DESCRIPTIONS

ART

1023 THE ARTS OF VISION AND SOUND

(3-0) 3 hours credit.

A study of the fine arts to acquaint students with the nature, function, and process of the visual and aural arts; covers cultural background, societal functions and the aesthetic and technical aspects of the arts: the "how" of various artistic techniques, and demonstrations of various musical instruments and vocal techniques.

- 1116 ART I
(4-8) 6 hours credit.
Examination of basic aspects of two and three-dimensional phenomena.
- 1126 ART II
(4-8) 6 hours credit. Prerequisite: ART 1116.
An examination of the basic concerns of form and light.
- 1136 ART III
(4-8) 6 hours credit. Prerequisite: ART 1126.
Introduction to the discrete studio areas of the Division of Art and Design: painting, drawing, sculpture, ceramics, printmaking, photography and design.
- 1146 ART IV
(4-8) 6 hours credit. Prerequisite: ART 1136.
Concentration in one or more of the discrete areas of ART III. Portfolio preparation.
- 3103 PAINTING FOR THE NON-ART MAJOR
(0-6) 3 hours credit.
May not be applied to a major in art.
Techniques and ideologies of painting.
- 3113 PAINTING I
(0-6) 3 hours credit. Prerequisite: Upper-division standing and consent of instructor.
Concepts and methods of traditional and contemporary painting with an emphasis on the synthesis of idea and means.
- 3123 PAINTING II
(0-6) 3 hours credit. Prerequisite: ART 3113.
Continuation and refinement of Painting I.
- 3133 PAINTING III
(0-6) 3 hours credit. Prerequisite: ART 3123.
Continuation and refinement of Painting II.
- 3143 PAINTING IV
(0-6) 3 hours credit. Prerequisite: ART 3133.
Continuation and refinement of Painting III. For students concentrating in painting, this course will culminate in an exhibition and written thesis.
- 3203 DRAWING FOR NON-ART MAJORS
(0-6) 3 hours credit.
May not be applied to a major in art.
Techniques and ideologies of drawing.
- 3213 DRAWING I
(0-6) 3 hours credit. Prerequisite: Upper-division standing and consent of instructor.
An examination of drawing as a vehicle for developing a visual vocabulary, as preparation for other media, and as an end in itself.

- 3223 **DRAWING II**
(0-6) 3 hours credit. Prerequisite: ART 3213.
Continuation and refinement of Drawing I.
- 3233 **DRAWING III**
(0-6) 3 hours credit. Prerequisite: ART 3223.
Continuation and refinement of Drawing II.
- 3243 **DRAWING IV**
(0-6) 3 hours credit. Prerequisite: ART 3233.
Continuation and refinement of Drawing III. For students concentrating in drawing, this course will culminate in an exhibition and written thesis.
- 3503 **PHOTOGRAPHY FOR THE NON-ART MAJOR**
(0-6) 3 hours credit.
May not be applied to a major in art.
Techniques and basic ideas of creative photography.
- 3513 **PHOTOGRAPHY I**
(0-6) 3 hours credit. Prerequisite: Upper-division standing and consent of instructor.
Introduction to the aesthetics of photographic vision and to dark-room techniques.
- 3523 **PHOTOGRAPHY II**
(0-6) 3 hours credit. Prerequisite: ART 3513.
Concepts and methods of traditional and contemporary photography.
- 3533 **PHOTOGRAPHY III**
(0-6) 3 hours credit. Prerequisite: ART 3523.
Continuation and refinement of Photography II.
- 3543 **PHOTOGRAPHY IV**
(0-6) 3 hours credit. Prerequisite: ART 3533.
Continuation and refinement of Photography III. For students concentrating in photography, this course will culminate in an exhibition and written thesis.
- 3613 **PRINTMAKING I**
(0-6) 3 hours credit. Prerequisite: Upper-division standing and consent of instructor.
Concepts and methods of traditional and contemporary printmaking including lithography, intaglio, serigraphy, and relief painting.
- 3623 **PRINTMAKING II**
(0-6) 3 hours credit. Prerequisite: ART 3613.
Concentration in one or more of the offered printmaking media.
- 3633 **PRINTMAKING III**
(0-6) 3 hours credit. Prerequisite: ART 3623.
Continuation and refinement of Printmaking II.
- 3643 **PRINTMAKING IV**
(0-6) 3 hours credit. Prerequisite: ART 3633.
Continuation and refinement of Printmaking III. For students

concentrating in printmaking, this course will culminate in an exhibition and written thesis.

COURSE DESCRIPTIONS
HISTORY OF ART AND CRITICISM
(HAC)

- 1113 **SURVEY OF ART I: ANCIENT TO MEDIEVAL**
(3-0) 3 hours credit.
A study of art and architecture in the Mediterranean and Northern Europe.
- 1123 **SURVEY OF ART II: RENAISSANCE TO MODERN**
(3-0) 3 hours credit.
A study of art and architecture in Europe and the U.S.
- 3013 **ANCIENT ART**
(3-0) 3 hours credit. Prerequisite: Consent of instructor.
A study of art and architecture in Persia, Mesopotamia, Egypt, Greece, Crete, and Roman Italy.
- 3113 **MEDIEVAL ART**
(3-0) 3 hours credit. Prerequisite: Consent of instructor.
A study of Early Christian, Byzantine, Romanesque, and Gothic art and architecture in Europe.
- 3213 **ISLAMIC ART**
(3-0) 3 hours credit. Prerequisite: Consent of instructor.
A study of art and architecture in the Near East, North Africa, and Spain.
- 3313 **RENAISSANCE ART**
(3-0) 3 hours credit. Prerequisite: Consent of instructor.
A study of art and architecture in Europe.
- 3413 **EUROPEAN ART: SEVENTEENTH TO EIGHTEENTH CENTURIES**
(3-0) 3 hours credit. Prerequisite: Consent of instructor.
A study of art and architecture in Europe.
- 3513 **SPANISH ART: VISIGOTHIC TO BAROQUE**
(3-0) 3 hours credit. Prerequisite: Consent of instructor.
A study of art and architecture in Spain.
- 3533 **SPANISH AND SPANISH-AMERICAN ART: SIXTEENTH TO EIGHTEENTH CENTURIES**
(3-0) 3 hours credit. Prerequisite: Consent of instructor.
A study of art and architecture in Spain and Spanish America.
- 3913 **INTRODUCTION TO THE FILM**
(3-0) 3 hours credit.
A study of the major tendencies in the art of the motion picture.
- 3923 **HISTORY AND ART OF FILM I**
(3-0) 3 hours credit. Prerequisite: HAC 3913.
The history of the movies up to the era of sound.

- 3933 HISTORY AND ART OF FILM II**
(3-0) 3 hours credit. Prerequisite: HAC 3913.
The history of the movies from the beginning of the sound era to the present.
- 4213 SPANISH-AMERICAN ART: NINETEENTH AND TWENTIETH CENTURIES**
(3-0) 3 hours credit. Prerequisite: Consent of instructor.
A study of art in Mexico, Venezuela, Colombia, Peru, Chile and Argentina.
- 4313 MEXICAN MURALISM**
(3-0) 3 hours credit. Prerequisite: Consent of instructor.
A study of twentieth-century mural painting in Mexico.

DIVISION OF MUSIC

The Division of Music provides instruction for those students who wish to prepare for a professional teaching career and for those who desire a professional performing career in music. Students are provided the opportunity to engage in scholarly research in the history of music. Artistic performance and creativity are encouraged through student recitals and university ensemble performances. Students in all academic disciplines may also study music both as a scholarly pursuit and as a performing art through music classes and performing ensembles. The Division of Music is authorized to award a Bachelor of Music Education Degree.

The Division of Music also cooperates in the musical life of the community by providing participatory, collaborative, and advisory services.

BACHELOR OF MUSIC EDUCATION DEGREE

The minimum number of semester hours required for this degree, including the 50 hours of General Education Requirements, is 137*. All candidates for the degree must complete 63 semester hours in the major, 30 of which must be at the upper-division level. Students may complete the 63 hours in one of two emphases: Secondary Choral or All-level Choral.

A. Secondary Choral Emphasis

1. Forty-seven semester hours in music are required:

- MUS 1013 Basic Skills of Music I
- MUS 1023 Basic Skills of Music II
- MUS 1211 Music Reading I
- MUS 1221 Music Reading II
- MUS 1231 Music Reading III
- MUS 1241 Music Reading IV
- MUS 2113 Basic Skills of Music III
- MUS 2123 Basic Skills of Music IV
- MUS 2203 Introduction to Music Literature
- MUS 2742 Conducting I

*Thirty-nine of the total semester hours required for the degree must be at the upper-division level.

MUS 2752 Conducting II
 MUS 3752 Diction: English and French *or*
 MUS 3762 Diction: Italian and German
 MUS 3112 Analysis I
 MUS 3122 Analysis II
 MUS 3213 Music in Western Civilization I
 MUS 3223 Music in Western Civilization II
 MUS 3513 Music in the Elementary School
 MUS 3533 General Music in the Junior High School
 MUS 3552 Choral Materials for High School Choirs
 MUS 4742 Intermediate Conducting and Rehearsal
 Techniques: Secondary School
 MUS 4752 Advanced Conducting and Rehearsal
 Techniques: Secondary School

2. Sixteen semester hours in applied music are required:

MUS 1721 Applied Music-Private Instruction *or*
 MUS 1731 Class Piano
 MUS 2722 Applied Music-Private Instruction
 MUS 4722 Applied Music-Private Instruction

These courses may be repeated for credit to fulfill the 16-hour requirements.

3. Twenty semester hours in professional education (including six hours of student teaching) are required.

4. Special degree requirements. All students majoring in music are required (a) to make one recital appearance during the last semester of study on his principal instrument, (b) to perform in a university ensemble each term in residence including summer terms, (c) to meet proficiency standards established for applied, principal, and secondary instruments. Students who do not meet these standards will be required to repeat applied courses.

B. All-level Choral Emphasis:

1. Forty-six semester hours in music are required for the All-level Choral Emphasis:

MUS 1013 Basic Skills of Music I
 MUS 1023 Basic Skills of Music II
 MUS 1211 Music Reading I

MUS 1221 Music Reading II
 MUS 1231 Music Reading III
 MUS 1241 Music Reading IV
 MUS 2113 Basic Skills of Music III
 MUS 2123 Basic Skills of Music IV
 MUS 2203 Introduction to Music Literature
 MUS 2742 Conducting I
 MUS 2752 Conducting II
 MUS 3752 Diction: English and French *or*
 MUS 3762 Diction: Italian and German
 MUS 3112 Analysis I
 MUS 3122 Analysis II
 MUS 3213 Music in Western Civilization I
 MUS 3223 Music in Western Civilization II
 MUS 3502 General Music Materials for Elementary
 and Junior High School
 MUS 3513 Music in the Elementary School
 MUS 3523 Creative Music Experiences in the
 Elementary School
 MUS 3533 General Music in the Junior High School

2. Sixteen semester hours in applied music are required:

MUS 1721 Applied Music-Private Instruction *or*
 MUS 1731 Class Piano
 MUS 2722 Applied Music-Private Instruction
 MUS 4722 Applied Music-Private Instruction

These courses may be repeated for credit to fulfill the 16-hour requirement.

3. Twenty semester hours in professional education (including six hours of student teaching) are required.
4. Four additional semester hours of general education for certification (three hours of speech electives and EDU 2001) are required.
5. One semester hour of electives in music is required.
6. Special degree requirements. All students majoring in music are required (a) to make one recital appearance during the last semester of study on his principal instrument, (b) to perform in a university ensemble each term in residence including summer terms, (c) to meet proficiency standards established for applied,

principal, and secondary instruments. Students who do not meet these standards will be required to repeat applied courses.

COURSE DESCRIPTIONS

MUSIC

(MUS)

1013 BASIC SKILLS OF MUSIC I

(3-1) 3 hours credit.

A survey of basic fundamentals and concepts of music. Emphasis on rudiments, melody, harmony, aural skills, keyboard application, and analysis. Should be taken concurrently with MUS 1211.

1023 BASIC SKILLS OF MUSIC II

(3-1) 3 hours credit. Prerequisite: MUS 1013 or the equivalent.

A survey of fundamentals and concepts of music. Emphasis on rudiments, melody, harmony, composition, keyboard application, transposition, analysis, and basic acoustics. Should be taken concurrently with MUS 1221.

1211 MUSIC READING I

(1-1) 1 hour credit.

Provides training in sight singing, aural imagery, and development of basic musicianship. Should be taken concurrently with MUS 1013.

1221 MUSIC READING II

(1-1) 1 hour credit. Prerequisite: MUS 1211 or the equivalent.

Continued training in sight singing, aural imagery and development of basic musicianship including asymmetric meters and twentieth-century tonal relationships. Should be taken concurrently with MUS 1023.

1231 MUSIC READING III

(1-1) 1 hour credit. Prerequisite: MUS 1221 or the equivalent.

Advanced training in sight singing modulating to closely related keys, aural study of compound meters and development of basic musicianship. Should be taken concurrently with MUS 2113.

1241 MUSIC READING IV

(1-1) 1 hour credit. Prerequisites: MUS 1231 and MUS 2113 or the equivalents.

Aural study of mixed meters, remote modulations and altered chords, sight singing of unusual and advanced melodic material. Should be taken concurrently with MUS 2123.

1721 APPLIED MUSIC I

(1-0) 1 hour credit.

Private instruction for students desiring or required to study as secondary instruments piano, organ, or voice. May be repeated for credit.

- 1731 CLASS PIANO**
(0-3) 1 hour credit. Prerequisite: Placement examination.
Keyboard skills and sight reading ability developed. May be repeated for credit.
- 1741 CLASS VOICE**
(1-0) 1 hour credit. Prerequisite: Placement examination.
For students with no previous vocal training. Fundamentals of voice technique developed including in-class performances of suitable songs. May be repeated for credit.
- 2113 BASIC SKILLS OF MUSIC III**
(3-1) 3 hours credit. Prerequisite: MUS 1023 or the equivalent.
Study of advanced harmony, melodic and rhythmic dictation, form and analysis, compositional procedures, and keyboard application. Should be taken concurrently with MUS 1231.
- 2123 BASIC SKILLS OF MUSIC IV**
(3-1) 3 hours credit. Prerequisite: MUS 2113 or the equivalent.
Study of advanced harmony, melodic and rhythmic dictation, advanced analysis, composition, keyboard application, and twentieth-century materials and procedures. Should be taken concurrently with MUS 1241.
- 2203 INTRODUCTION TO MUSIC LITERATURE**
(3-1) 3 hours credit. Prerequisite: MUS 1023 or the equivalent.
Introduction to the study of music literature and research techniques for music majors. A survey of the major style period and principal composers in Western civilization music.
- 2722 APPLIED MUSIC II**
(1-0) 2 hours credit. Prerequisite: Consent of instructor.
Private instruction in piano, organ, or voice for students for whom these are their principal instruments. May be repeated for credit.
- 2742 CONDUCTING I**
(2-1) 2 hours credit. Prerequisite: MUS 2113 or the equivalent.
Fundamentals of beat patterns, baton use, score reading, and practical experience.
- 2752 CONDUCTING II**
(2-1) 2 hours credit. Prerequisite: MUS 2113 or MUS 2742 or the equivalent.
Fundamentals of beat patterns, full score reading, choral and instrumental rehearsal techniques.
- 3112 ANALYSIS I**
(2-0) 2 hours credit. Prerequisites: MUS 2123 and MUS 1241 or the equivalents.
Harmonic and structural analysis of musical forms.
- 3122 ANALYSIS II**
(2-0) 2 hours credit. Prerequisite: MUS 3112 or the equivalent.
Harmonic and structural analysis of larger forms including twentieth-century materials and techniques.

- 3213 MUSIC IN WESTERN CIVILIZATION I**
(3-1) 3 hours credit. Prerequisite: MUS 2203 or the equivalent.
A study of Medieval, Renaissance, Baroque, and Classic music periods.
- 3223 MUSIC IN WESTERN CIVILIZATION II**
(3-1) 3 hours credit. Prerequisite: MUS 3213 or the equivalent.
A continuation of MUS 3213 through the Romantic and Contemporary periods.
- 3233 MUSIC OF THE AMERICAS**
(3-0) 3 hours credit. Prerequisites: MUS 2203 and MUS 2123 or the equivalents.
Study of indigenous and borrowed traditions in the music of the Americas from the Colonial period to the present.
- 3253 SPECIAL STUDIES IN MUSIC LITERATURE**
(3-0) 3 hours credit. Prerequisites: MUS 3213, MUS 3233 or upper-division standing and consent of instructor.
Two or more sections may be taken concurrently. Section 1, Music Since 1950; Section 2, Music in the Romantic Age; Section 3, Music in the Classic Period; Section 4, Music in the Baroque Period; Section 5, The Art Song; Section 6, Choral Literature from 1400 to 1825; Section 7, Choral Literature from 1825 to Present; Section 8, History of the Keyboard up to 1750; Section 9, Literature of the Piano Forte; Section 10, Organ Literature; Section 11, The Operatic Tradition; Section 12, The Instrumental Concerto. May be repeated for credit.
- 3352 CHORAL ARRANGING**
(2-1) 2 hours credit. Prerequisite: MUS 2123 or the equivalent.
Practical studies in arranging for choral ensembles with emphasis on suitable material for secondary school choirs.
- 3493 MUSIC FOR THE CLASSROOM TEACHER**
(3-1) 3 hours credit. Prerequisites: MUS 1013 or the equivalent and upper-division standing in music or education.
Development of the classroom music program in the elementary school, including techniques and materials.
- 3502 GENERAL MUSIC MATERIALS FOR ELEMENTARY AND JUNIOR HIGH SCHOOL**
(2-0) 2 hours credit. Prerequisites: MUS 2511 or the equivalent and upper-division standing in music.
Designed to present the materials and repertoire necessary for teaching in the first eight grades.
- 3513 MUSIC IN THE ELEMENTARY SCHOOL**
(3-1) 3 hours credit. Prerequisites: MUS 2123, MUS 2511, or the equivalents and upper-division standing in music.
Methods of instruction, organization, and presentations of appropriate content in music for the elementary school.
- 3523 CREATIVE MUSIC EXPERIENCES IN THE ELEMENTARY SCHOOL**
(3-1) 3 hours credit. Prerequisites: MUS 3493, MUS 3513 and

upper-division standing in music or education.

Study of music activities for the elementary schools; rhythm, singing, making and playing of simple instruments, accompanying instruments, listening, and bodily movement.

3533 GENERAL MUSIC IN THE JUNIOR HIGH SCHOOL

(3-1) 3 hours credit. Prerequisite: Upper-division standing in music.

The objectives, contents and methods in the teaching of general music in the middle or junior high school. Special attention will also be given to problems related to the changing voice.

3552 CHORAL MATERIALS FOR HIGH SCHOOL CHOIRS

(2-0) 2 hours credit. Prerequisites: MUS 2511 or the equivalent and upper-division standing in music.

The building of a repertoire for high school choral groups, including mixed, boys, and girls ensembles. Includes selection criteria and choral curriculum foundations.

3622 UTSA CHORALE

(0-5) 2 hours credit. Prerequisite: Consent of instructor by audition.

Credit will apply toward required electives for the non-music major. May be repeated for credit.

3642 UTSA WIND ENSEMBLE

(0-5) 2 hours credit. Prerequisite: Consent of instructor.

Credit will apply toward required electives for the non-music major. May be repeated for credit.

3671 MADRIGAL SINGERS

(0-3) 1 hour credit. Prerequisite: Consent of instructor.

Credit will apply toward required electives for the non-music major. May be repeated for credit.

3752 DICTION: ENGLISH AND FRENCH

(2-0) 2 hours credit. Prerequisite: Upper-division standing.

Study of French and English pronunciation for singers; the pronunciation of both languages as it applies to public performance.

3762 DICTION: ITALIAN AND GERMAN

(2-0) 2 hours credit. Prerequisite: Upper-division standing.

Study of Italian and German pronunciation for singers; the pronunciation of both languages as it applies to public performance.

4722 APPLIED MUSIC III

(1-0) 2 hours credit. Prerequisite: MUS 2722.

Private instruction in piano, organ, or voice for students for whom these are their principal instruments. May be repeated for credit.

4742 INTERMEDIATE CONDUCTING AND REHEARSAL TECHNIQUES: SECONDARY SCHOOL

(2-1) 2 hours credit. Prerequisite: MUS 2752 or the equivalent.

Baton study, introduction of major works. Further study of regular and asymmetric meters, and polymeters. Section I, Choral. .

**4752 ADVANCED CONDUCTING AND REHEARSAL
TECHNIQUES: SECONDARY SCHOOL**

(2-1) 2 hours credit. Prerequisite: MUS 4742 or the equivalent.
Continuation of MUS 4742 with emphasis on expressive conducting, score interpretation and artistic ensemble performance. Section 1, Choral.

4781 CHAMBER MUSIC

(1-0) 1 hour credit. Prerequisite: Upper-division standing in music.
Designed to provide students with knowledge of chamber music literature and to perform this repertoire. Section 1, Piano; Section 2, Voice.

College of Humanities and Social Sciences

The College is responsible in large part for general education in The University. The College performs an integrative role, providing the intellectual skills and perceptions necessary to the successful completion of a bachelor's degree program. Teaching basic skills in expository writing and analytical reading aims at equipping the student for university study and adult life. These skills will aid the student in any specialized field. Training in analytical thinking is gained through the various disciplines of the College and through interdisciplinary studies. These functions are performed through required courses in English, humanities, foreign languages, and in the social sciences, including the legislatively mandated areas of political science and history. Undergraduate major programs form a group of general studies with specialization possible through concentration and work in supporting fields. The College offers cultural and linguistic courses which provide a sense of the heritage of civilization as a whole and of Western and non-Western ethnic traditions. In short, the College supplies a significant part of a liberal education.*

*All majors in this College must complete ENG 1031 or the equivalent.

DIVISION OF ENGLISH, CLASSICS, AND PHILOSOPHY

The aim of the Division of English, Classics, and Philosophy is to assist in providing the kind of liberal education which will allow each student to realize his full intellectual potential. To this end, the Division offers a variety of courses designed to introduce all students to our literary and philosophical heritage, to develop their abilities in both written and oral communication, and to prepare them for graduate study or entrance to professional programs or schools.

The Division offers majors in English and, in cooperation with the Division of Foreign Languages, Humanities, as well as non-degree programs in Speech-Communication, Philosophy, and Classics.

BACHELOR OF ARTS DEGREE IN ENGLISH

The minimum number of semester hours required for this degree, including the 50 hours of General Education Requirements, is 120.*

All candidates for the degree must complete:

- A. Thirty semester hours in English (in addition to the nine hours of English in the General Education Requirements); of which 21 must be at the upper-division level.

Required courses are:

- ENG 2213 Introduction to the Study of Literature
- ENG 2223 Major British Writers I
- ENG 2233 Major British Writers II
- ENG 3013 The American Renaissance
- ENG 3223 Shakespeare: The Early Plays *or*
- ENG 3233 Shakespeare: The Later Plays

- B. Twelve semester hours of upper-division *support work* in a single field to be chosen from the following: 1) foreign languages, literature (including courses in translation), and culture; 2) linguistics and speech-

*Thirty-nine of the total semester hours required for the degree must be at the upper-division level.

communication; 3) history, anthropology, and political science; 4) classics, philosophy, and humanities; 5) history and theory of art and of music; 6) other subjects as may be individually justified by the student and approved by the undergraduate advisor and Division Director.

C. Twenty-eight semester hours of *free electives*.

A student whose grade-point average in English prior to the beginning of his or her last year at UT San Antonio is 3.5 or above may petition the Division for permission to work for honors in English. A student seeking honors in English must enroll in ENG 4123 in his or her final semester at the University.

COURSE DESCRIPTIONS

ENGLISH

(ENG)

1013 ENGLISH COMPOSITION

(3-0) 3 hours credit.

Intensive study of the fundamentals of expository English prose. Emphasis on syntax, paragraph development, and organization of themes. Frequent practice in writing expository themes. (This course or the equivalent is required of all undergraduate students.)

1023 INTRODUCTION TO THE HUMANITIES I

(3-0) 3 hours credit. Prerequisite: ENG 1013 or the equivalent.

Close reading and discussion of selected texts in literature and philosophy. Texts selected thematically to provide subjects for analytical writing; continuing emphasis placed on developing writing skills. (This course, the equivalent, or an appropriate substitute is required of all undergraduate students.)

1033 INTRODUCTION TO THE HUMANITIES II

(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.

Close reading and discussion of selected texts in literature and philosophy. Texts selected thematically to provide subjects for analytical writing; continuing emphasis placed on developing writing skills. (Required of all students who major in the College of Humanities and Social Sciences.)

1043 LANGUAGE AND COMMUNICATION

(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.

Study of the principles of oral communication and the use of language to affect human behavior; practice in the preparation and delivery of expository and persuasive speeches before classroom audiences.

1053 FINE ARTS — HUMANITIES

(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.

A study of art in terms of form, meaning, and function and a review of the literature on the arts by artists, aestheticians, art critics and art historians to enable the student to write as well as speak about viewing, understanding and evaluating of works of art and architecture.

2013 INTRODUCTION TO FICTION

(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.

A study of representative works of fiction from several historical periods with an emphasis on theories and kinds of fiction. (May not be counted toward the English major.)

2213 INTRODUCTION TO THE STUDY OF LITERATURE

(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.

A study of critical principles and literary concepts through an investigation of poetry, drama, and fiction. The course serves as an introduction to the advanced study of literature. (Primarily for English majors.)

2223 MAJOR BRITISH WRITERS I

(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.

A study of representative works of at least six major writers from Chaucer to Johnson. (Primarily for English majors.)

2233 MAJOR BRITISH WRITERS II

(3-0) 3 hours credit. Prerequisite: ENG 2223 or the equivalent.

A study of representative works of at least six major writers from Blake to Eliot. (Primarily for English majors.)

2243 THE AMERICAN NOVEL

(3-0) 3 hours credit. Prerequisite: ENG 1023 or 2013 or the equivalent.

Reading and discussion of representative American novels from Hawthorne to the present. (May not be counted toward the English major.)

3013 THE AMERICAN RENAISSANCE

(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.

An intensive study of the major forms and traditions of American literature from 1820 to 1860 with emphasis on Poe, Hawthorne, Melville, Emerson, Thoreau, Whitman, and Dickinson.

3033 CONTEMPORARY AMERICAN LITERATURE

(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.

An intensive study of verse and prose fiction of the last two decades as it relates to American literary traditions and thought.

3043 BLACK LITERATURE IN AMERICA

(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.

A comprehensive survey of the works of Black writers in America from the eighteenth century to the end of the Harlem Renaissance period; imaginative literature, slave narratives, biographical sketches, social commentary, and folk literature will be studied.

- 3113 STUDIES IN TWO AUTHORS**
(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.
The major works of two English or American writers studied in relation to each other. The writers studied vary from semester to semester and may be selected from the following: Spenser and Milton, Joyce and Faulkner, Pope and Swift, Tennyson and Browning, Marlowe and Jonson, Dickens and George Eliot. May be repeated for credit when topics vary.
- 3123 MODERN FICTION**
(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.
A critical survey of American, British, and Continental fiction of the twentieth century studied intensively in relation to the development of characteristically modern techniques.
- 3133 WOMEN IN LITERATURE**
(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.
A study of the presentation of women and feminist issues in verse, fiction, and non-fiction prose of the nineteenth and twentieth centuries. Both men and women writers will be read.
- 3213 CHAUCER**
(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.
Critical study of the *Canterbury Tales* and other poems read in Middle English.
- 3223 SHAKESPEARE: THE EARLY PLAYS**
(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.
Critical study of at least ten comedies, histories, and tragedies from the earlier period (1590-1601).
- 3233 SHAKESPEARE: THE LATER PLAYS**
(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.
Critical study of at least ten comedies, tragedies, and romances from the later period (1602-1613). ENG 3223 is not prerequisite to ENG 3233.
- 3243 THE ENGLISH NOVEL**
(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.
A critical survey of selected novels of the eighteenth and nineteenth centuries with emphasis on the literary qualities of the works.
- 3263 MODERN EUROPEAN NOVEL**
(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.
Critical study of selected Continental novelists of the last hundred years; emphasis on works which treat social or philosophical problems.
- 3313 ADVANCED COMPOSITION**
(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.
Extensive practice in the writing of expository and argumentative prose.
- 3323 HISTORY OF THE ENGLISH LANGUAGE**
(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.

A historical survey of the development of the sounds and grammatical structure of the English language.

3333 STRUCTURE OF MODERN ENGLISH

(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.

Analysis of the structural patterns of modern English from both the grammatical and linguistic points of view. Application of recent theory to the teaching of English.

4013 THE METAPHYSICAL POETS

(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.

An intensive study of the chief metaphysical poets with emphasis on Donne, Herbert, Crashaw, Marvell, and Vaughan.

4023 THE ROMANTIC POETS

(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.

An intensive study of the chief British romantic poets with emphasis on Blake, Wordsworth, Coleridge, Byron, Keats, and Shelley.

4033 LITERARY GENRES

(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.

An intensive study of a single genre such as comedy, tragedy, allegory, satire, or epic. May be repeated for credit.

4123 HONORS SEMINAR

(3-0) 3 hours credit. Prerequisite: Acceptance in English Honors program.

An undergraduate seminar limited to English majors in their last two semesters who wish to graduate with honors in English. Intensive study of a genre, topic, or a period in English or American literature; content will vary with each instructor.

BACHELOR OF ARTS DEGREE IN HUMANITIES

The B.A. in Humanities is an interdisciplinary degree made up of courses drawn from a number of academic disciplines.

The minimum number of semester hours required for the degree, including the 50 hours of General Education Requirements, is 120.*

All candidates for the degree must complete:

A. Thirty-six semester hours in an interdisciplinary *major*, consisting of:

1) Nine hours of core courses:

CLA 2113 Greek and Roman Civilization

PHI 3023 History of Ideas

HUM 2013 Theory of Literature

2) Nine hours of upper-division work in Humanities.

3) Nine hours of upper-division work in a "literature" (Spanish, French, German, Russian or English).

4) Nine hours in a second "literature" or classics or philosophy, of which six must be at the upper-division level.

B. Twelve semester hours of *support work* in courses chosen from the following: history, or history and theory of art and music.

C. Twenty-two semester hours of *free electives*.

A student whose grade-point average in the Interdisciplinary Humanities major at the end of the junior year is 3.5 or above may petition the Humanities advisor for permission to work for honors. A student seeking honors must enroll in HUM 4123 in the second semester of his senior year.

*Thirty-nine of the total semester hours required for the degree must be at the upper-division level.

COURSE DESCRIPTIONS

HUMANITIES

(HUM)

2013 THEORY OF LITERATURE

(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.
Critical study of the nature and function of literature and the relationship of literature to philosophy, history, and the other arts; attention to such topics as stylistics, genres, and literary history.

3023 THE MEDIEVAL WORLD

(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.
An interdisciplinary investigation of medieval thought and culture as exemplified in major works of literature, philosophy, theology, and history.

3033 THE RENAISSANCE IDEA OF MAN

(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.
An interdisciplinary investigation of Renaissance thought and culture as exemplified in major works of literature, philosophy, theology, and history; emphasis on the fundamental changes in Western man's view of his world and of himself.

3113 THE HERO IN FICTION

(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.
Critical study of the changing conception of the hero from classical antiquity to modern times; the impact of society on the metamorphosis of the hero as archetype, image, and symbol.

3213 THE CHRISTIAN CLASSICS

(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.
An intensive survey of selected works of such writers as Augustine, Dante, Milton, Bunyan, Pascal, Hopkins, and Eliot, studied in the context of Christian thought.

3413 MAN AND THE COSMOS

(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.
Critical interdisciplinary study of man's search for his place in the universe; the impact of scientific and philosophical inquiry on man's world-view as expressed in literature.

4123 HONORS SEMINAR

(3-0) 3 hours credit. Prerequisite: Acceptance in Humanities Honors program.

An undergraduate seminar limited to Humanities majors in their last two semesters who wish to graduate with honors in Humanities. Content will vary with each instructor.

COURSE DESCRIPTIONS

CLASSICS

(CLA)

2113 GREEK AND ROMAN CIVILIZATION

(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.
An introduction to the intellectual and artistic achievements of

ancient Greece and Rome as exemplified in major works of literature, philosophy, and history.

3023 CLASSICAL MYTHOLOGY

(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.
Critical study of myth in ancient Greek and Roman legend, drama, and folktale; attention to current theories of myth as applied to such writers as Homer, Hesiod, Ovid, and Vergil.

3033 HOMER AND THE TRAGIC VISION

(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.
Critical study of the tragic literature of ancient Greece with emphasis on the *Iliad* and the dramas of Aeschylus, Sophocles, and Euripides.

3043 THE COMIC EXPERIENCE

(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.
Critical study of the comic literature of ancient Greece and Rome with emphasis on the works of Aristophanes, Menander, Plautus and Terence, Petronius, and Apuleius.

3063 THE CLASSICAL TRADITION

(3-0) 3 hours credit. Prerequisite: ENG 1033 or the equivalent.
Critical survey of the Graeco-Roman tradition in Western literature, both Old and New World, with emphasis on the following forms: satire, elegy, pastoral, ode, and the lyric.

COURSE DESCRIPTIONS

PHILOSOPHY

(PHI)

2013 BASIC PHILOSOPHICAL PROBLEMS

(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.
An introduction to philosophy through general problems in metaphysics, epistemology, ethics, political philosophy, and philosophy of religion; emphasis on the writings of philosophers of various historical periods, especially as these doctrines apply to contemporary problems.

2023 INTRODUCTION TO ANCIENT PHILOSOPHY

(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.
An introduction to ancient philosophy through the study of Plato, Aristotle, Epicurus, and others; emphasis on the Greek contribution to the moral and political ideas of the Western world.

2033 INTRODUCTION TO MODERN PHILOSOPHY

(3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.
An introduction to modern philosophy, from the Renaissance to the present, through the study of Descartes, Locke, Hume, Leibniz, Kant, Kierkegaard, and others; emphasis on the relations of philosophy to the development of modern science, the social and political history of the Western world, and man's attempt to achieve a satisfactory world-view.

- 2043 INTRODUCTORY LOGIC**
 (3-0) 3 hours credit. Prerequisite: ENG 1023 or the equivalent.
 Study of the principles of valid argument: definition, deductive and inductive inference, fallacies.
- 3013 PHILOSOPHY OF RELIGION**
 (3-0) 3 hours credit. Prerequisite: ENG 1023 or PHI 2013 or the equivalent.
 Examination of traditional religious beliefs and such concepts as faith and knowledge, mysticism and theology, existence and the nature of God, and the relation of religion to experience and social life.
- 3023 HISTORY OF IDEAS**
 (3-0) 3 hours credit. Prerequisite: ENG 1023 or PHI 2013 or the equivalent.
 A survey of the development and influence of major philosophical, ethical, and aesthetic conceptions in Western civilization from ancient times to the present.
- 3033 PHILOSOPHY OF SCIENCE**
 (3-0) 3 hours credit. Prerequisite: ENG 1023 or PHI 2013 or the equivalent.
 Examination of major issues in the philosophical foundations of the natural and social sciences, including scientific explanation, laws and theories, probability and induction, and the relation of scientific inquiry to the Western philosophical tradition.
- 3053 PHILOSOPHY OF ART**
 (3-0) 3 hours credit. Prerequisite: ENG 1023 or PHI 2013 or the equivalent.
 Examination of major theories of art, beauty, and aesthetic judgment with emphasis on such problems as form and structure, communication in art, and meaning in aesthetic judgment.
- 3073 ORIENTAL PHILOSOPHY**
 (3-0) 3 hours credit. Prerequisite: ENG 1023 or PHI 2013 or the equivalent.
 Examination of the philosophical and religious traditions of the East, with emphasis on China, India, and Japan.
- 3313 EXISTENTIALISM**
 (3-0) 3 hours credit. Prerequisite: ENG 1023 or PHI 2013 or the equivalent.
 An intensive study of selected topics from the writings of Nietzsche, Kierkegaard, Heidegger, Jaspers, Sartre, and Camus.

DIVISION OF FOREIGN LANGUAGES

The Bachelor of Arts Degrees in Spanish, French, German and Russian offered by the Division of Foreign Languages have three main objectives: 1) to encourage mastery of a foreign language in its social, cultural, literary and linguistic dimensions; 2) to provide students a solid background in liberal education through flexibly combined courses; and 3) to prepare students in foreign language and related areas for effective and rewarding careers. Service to the community and academic excellence are the guiding measures of these objectives.

Courses in the foreign language areas of the Division normally are taught in the foreign language.

Elective courses in Linguistics are offered to give students structural and historical perspective about the specific language(s) studied, as well as about language in general.

To enable the student to develop skills in a foreign language at least at an intermediate level of proficiency and to introduce the student to the concepts related to the study of language and its structure, the Division of Foreign Languages offers the first semesters of course work in foreign language in multiple-track sequences. Completion of the first three courses, or their equivalent, in each track satisfies The University's foreign language requirement for all bachelor's degrees.

To enroll in a foreign language in which the student has prior knowledge, he or she is required to take a Placement Examination in that language. All or part of the foreign language requirement may be completed and credit earned by examination. (See Credit by Examination.)

In French, German, and Russian two tracks are offered: 1) a four-skill track designed to develop abilities in understanding, speaking, reading, and writing; and 2) a reading track designed to concentrate on development of reading ability. In this second track understanding, speaking, and reading skills will not be ignored; rather familiarity with syntactic structures and vocabulary will be stressed.

Track I

- 1013 Elementary French, German, or Russian I
- 1023 Elementary French, German, or Russian II
- 2013 Second Year French, German, or Russian I
- 2023 Second Year French, German, or Russian II

Courses through 2013 fulfill The University language requirement.

Track II

- 1113 Reading French, German, or Russian for Beginners I
- 1123 Reading French, German, or Russian for Beginners II
- 2113 Second Year French, German, or Russian Reading I
- 2123 Second Year French, German, or Russian Reading II

Courses through 2113 fulfill The University language requirement.

In Spanish three tracks are offered: 1) a four-skill track, 2) a reading track, and 3) a track for Spanish speakers.

Track I

- 1013 Elementary Spanish I
- 1023 Elementary Spanish II
- 2013 Second Year Spanish I
- 2023 Second Year Spanish II

Courses through 2013 fulfill The University language requirement.

Track II

- 1113 Reading Spanish I
- 1123 Reading Spanish II
- 2113 Second Year Spanish Reading I
- 2123 Second Year Spanish Reading II

Courses through 2113 fulfill The University language requirement.

Track III

- 1213 Spanish for Spanish Speakers I
- 1223 Spanish for Spanish Speakers II
- 2213 Spanish for Spanish Speakers III

Courses through 2213 fulfill The University language requirement.

BACHELOR OF ARTS DEGREE IN FRENCH

The minimum number of semester hours required for this degree, including the 50 hours of General Education Requirements, is 120.* All candidates for the degree must complete:

- A. 27 semester hours in the *major*, all of which must be at the upper-division level. Required courses are: FRN 3013, 3023, 3313, 3323, 3613, 3623. The remaining nine semester hours must be distributed as follows: 1) 1 literature course and two language courses, or 2) 2 literature courses and 1 language course.
- B. 21 semester hours of *support work*, 9 of which must be at the upper-division level. These courses may be selected from the areas of history of art and criticism, English, classics, humanities, philosophy, anthropology, history, sociology, or courses in foreign languages other than French.
- C. 22 semester hours of *free electives* which may be chosen from throughout The University's offerings.

COURSE DESCRIPTIONS

FRENCH (FRN)

1013 ELEMENTARY FRENCH I

(3-1) 3 hours credit.

Fundamentals of French, aimed at developing abilities in understanding, speaking, reading, and writing.

*Thirty-nine of the total semester hours required for the degree must be at the upper-division level.

- 1023 ELEMENTARY FRENCH II**
 (3-1) 3 hours credit. Prerequisite: FRN 1013 or the equivalent.
 Fundamentals of French, aimed at developing abilities in understanding, speaking, reading, and writing. A continuation of FRN 1013.
- 1113 READING FRENCH FOR BEGINNERS I**
 (3-1) 3 hours credit.
 Development of reading techniques; stress on syntactical structures and vocabulary acquisition. Progression through various forms of written expression.
- 1123 READING FRENCH FOR BEGINNERS II**
 (3-1) 3 hours credit. Prerequisite: FRN 1113 or the equivalent.
 Development of reading techniques; stress on syntactical structures and vocabulary acquisition. Progression through various forms of written expression. A continuation of FRN 1113.
- 2013 SECOND YEAR FRENCH I**
 (3-0) 3 hours credit. Prerequisite: FRN 1023 or the equivalent.
 Continued skill development in comprehension, speaking, reading and writing French. Review of French grammar, and development of reading techniques.
- 2023 SECOND YEAR FRENCH II**
 (3-0) 3 hours credit. Prerequisite: FRN 2013 or the equivalent.
 Continued skill development in comprehension, speaking, reading and writing French. Review of French grammar, and development of reading techniques. Expansion of reading and writing capabilities. A continuation of FRN 2013.
- 2113 SECOND YEAR FRENCH READING I**
 (3-0) 3 hours credit. Prerequisite: FRN 1123 or the equivalent.
 Readings in various disciplines aimed at familiarity with different types of vocabulary and language structure.
- 2123 SECOND YEAR FRENCH READING II**
 (3-0) 3 hours credit. Prerequisite: FRN 2113 or the equivalent.
 Readings in various disciplines aimed at familiarity with different types of vocabulary and language structure. Further study of lexical and syntactical matters aimed at increased speed and comprehension in reading. A continuation of FRN 2113.
- 3013 PHONETICS AND PRONUNCIATION**
 (3-1) 3 hours credit. Prerequisite: FRN 2023 or FRN 2123.
 Intensive patterned pronunciation drills and exercises in sound discrimination and transcription, based on detailed articulatory description of various dialects of French.
- 3023 ADVANCED COMPOSITION**
 (3-0) 3 hours credit. Prerequisite: FRN 2023 or FRN 2123.
 Selected grammar review. Theme writing and diagnosis of the grammatical problems of individual students.
- 3033 ADVANCED CONVERSATION**
 (3-0) 3 hours credit. Prerequisite: FRN 2023 or FRN 2123.
 Conversation correlated with readings and reports, aimed at in-

creasing oral fluency by vocabulary expansion and the active use of forming grammatical sentences. Attention given to the students' pronunciation, word choice, and syntax. Topics range from oral everyday life themes to discussion of a variety of written texts.

3043 RHETORIC AND POETICS

(3-0) 3 hours credit. Prerequisite: FRN 3033

A brief introduction to the art of orderly and persuasive discourse. Descriptions of figures of speech, *topoi* and general structure of the oration. Meter and melody in poetic diction.

3113 INTRODUCTION TO FRENCH LINGUISTICS

(3-0) 3 hours credit. Prerequisite: FRN 2023 or FRN 2123.

Application to French of the basic principles of analysis and description of language structure. Attention given to structural regularities at the levels of sound, word formation, and syntax; also to the relationship between some irregularities and historical change and to dialectal variation.

3123 APPLIED FRENCH LINGUISTICS

(3-0) 3 hours credit. Prerequisite: FRN 2023 or FRN 2123.

Practical application of linguistic principles to the teaching of French. Attention given to problems involved with the contrast between the structures of French and English.

3313 INTRODUCTION TO LITERARY STUDIES

(3-0) 3 hours credit. Prerequisite: FRN 2023 or FRN 2123.

The concept of literature. Function of literature. Literary genres and their structure. Literary periodification and literary history. Literature. Stylistics. Linguistics.

3323 INTRODUCTORY READINGS IN FRENCH LITERATURE

(3-0) 3 hours credit. Prerequisite: FRN 2023 or FRN 2123.

An elementary sampling of a number of literary masterpieces through periods, genres and styles.

3333 FRENCH LITERATURE IN ENGLISH TRANSLATION

(3-0) 3 hours credit.

May not be applied to a major in French. Major works of French Literature, themes, genres, movements. May be repeated for credit when topics vary.

3613 CONTEMPORARY FRANCE

(3-0) 3 hours credit. Prerequisite: FRN 2023 or FRN 2123.

Problems and conflicts determining the cultural development of contemporary France. Ethnic, social, political, economic and cultural characteristics as seen mainly through the essay. Intellectual currents and the role of the intellectual leaders in forming the cultural expression of France.

3623 FRANCE — CULTURE AND CIVILIZATION

(3-0) 3 hours credit. Prerequisite: FRN 2023 or FRN 2123.

The cultural life of the respective geographic regions and social strata of France as reflected in and interpreted by its literary production, especially the novel.

- 4113 INTRODUCTION TO FRENCH DIALECTOLOGY**
 (3-0) 3 hours credit. Prerequisite: FRN 3113.
 A survey of the salient characteristics of the dialects of France. Some attention given to principles of dialectology, but most emphasis on substantive facts about the language.
- 4313 MEDIEVAL FRENCH LITERATURE**
 (3-0) 3 hours credit. Prerequisite: FRN 3313.
 Poetic genres and poetic languages. *The Song of Roland* and epic poetry. Chretien de Troyes and the "Roman Courtois." Origin and development of lyrical forms: from provençal poetry to Villon. *Romance of the Rose* and the love romance. *Aucassin and Nicolette* and narrative prose. Origins and development of the theatre.
- 4323 FRENCH RENAISSANCE AND BAROQUE**
 (3-0) 3 hours credit. Prerequisite: FRN 3313.
 Definition and polemics. Classical doctrines and Baroque poetics. Lyric poetry from Ronsard to Tristan L'Hermite. Drama: Corneille, Racine, Moliere. Narrative from Rabelais to Fenelon. The essay from Montaigne to Boileau.
- 4333 THE FRENCH ENLIGHTENMENT**
 (3-0) 3 hours credit. Prerequisite: FRN 3313.
 Literature and ideology. The encyclopedists. Rousseau and the novel. Voltaire and satire. Montesquieu and epistolar narrative.
- 4343 FRENCH NINETEENTH CENTURY: ROMANTICISM, REALISM, NATURALISM**
 (3-0) 3 hours credit. Prerequisite: FRN 3313.
 Definition of the period. Its stages in the nineteenth century: Romanticism, Realism, Naturalism, "Decadence." Key figures in narrative (Balzac, Flaubert, Zola), Lyric poetry (Hugo, Lamartine, Mallarme, Baudelaire), theatre (Dumas fils).
- 4353 TWENTIETH CENTURY FRENCH LITERATURE**
 (3-0) 3 hours credit. Prerequisite: FRN 3313.
 Surrealism to the Nouveau Roman. Valery and poetry. Ionesco and the theatre of the absurd. Sartre and the existential novel. Nouveau Roman and new criticism: Robbe-Grillet, Levi-Strauss, R. Barthes. A. Cesaire and literature of Negritude.

BACHELOR OF ARTS DEGREE IN GERMAN

The minimum number of semester hours required for this degree, including the 50 hours of General Education Requirements, is 120. All candidates for the degree must complete:

- A. 30 semester hours in the *major*, all of which must be at the upper-division level. Required courses are: GER 3013, 3023, 3113 or 3123, 3313, 3323, 3613, 3623. The remaining 9 hours must be distributed as follows: 1) 1 literature course and 2 language courses, or 2) 2 literature courses and 1 language course.
- B. 18 semester hours of *support work*, 9 of which must be at the upper-division level. These courses may be selected from the areas of history of art and criticism, English, classics, humanities, philosophy, anthropology, history, sociology, or courses in foreign languages other than German.
- C. 22 semester hours of *free electives* which may be chosen from throughout The University's offerings.

COURSE DESCRIPTIONS

GERMAN

(GER)

1013 ELEMENTARY GERMAN I

(3-1) 3 hours credit.

Fundamentals of German, aimed at developing abilities in speaking, understanding, reading, and writing.

1023 ELEMENTARY GERMAN II

(3-1) 3 hours credit. Prerequisite: GER 1013 or the equivalent.

Fundamentals of German, aimed at developing abilities in speaking, understanding, reading, and writing. A continuation of GER 1013.

1113 READING GERMAN FOR BEGINNERS I

(3-1) 3 hours credit.

Development of reading techniques; stress on syntactical structures and vocabulary acquisition. Progression through various forms of written expression.

1123 READING GERMAN FOR BEGINNERS II

(3-1) 3 hours credit. Prerequisite: GER 1113 or the equivalent.

Development of reading techniques; stress on syntactical structures and vocabulary acquisition. Progression through various forms of written expression. A continuation of GER 1113.

- 2013 SECOND YEAR GERMAN I**
 (3-0) 3 hours credit. Prerequisite: GER 1123 or the equivalent.
 Continued skill development in comprehension, speaking, reading and writing German. Review of German grammar, and development of reading techniques.
- 2023 SECOND YEAR GERMAN II**
 (3-0) 3 hours credit. Prerequisite: GER 2013 or the equivalent.
 Continued skill development in comprehension, speaking, reading and writing German. Review of German grammar, and development of reading techniques. Expansion of reading and writing capabilities. A continuation of GER 2013.
- 2113 SECOND YEAR GERMAN READING I**
 (3-0) 3 hours credit. Prerequisite: GER 1123 or the equivalent.
 Readings in various disciplines aimed at familiarity with different types of vocabulary and language structure.
- 2123 SECOND YEAR GERMAN READING II**
 (3-0) 3 hours credit. Prerequisite: GER 2113.
 Readings in various disciplines aimed at familiarity with different types of vocabulary and language structure. Further study of lexical and syntactical matters aimed at increased speed and comprehension in reading. A continuation of GER 2113.
- 3013 PHONETICS AND PRONUNCIATION**
 (3-1) 3 hours credit. Prerequisite: GER 2023 or GER 2123.
 Intensive patterned pronunciation drills and exercises in sound discrimination and transcription, based on detailed articulatory description of various dialects of German.
- 3023 ADVANCED COMPOSITION**
 (3-0) 3 hours credit. Prerequisite: GER 2023 or GER 2123.
 Selected grammar review. Theme writing and diagnosis of the grammatical problems of individual students.
- 3033 ADVANCED CONVERSATION**
 (3-0) 3 hours credit. Prerequisite: GER 2023 or GER 2123.
 Conversation correlated with readings and reports, aimed at increasing oral fluency by vocabulary expansion and the active use of forming grammatical sentences. Attention given to the students' pronunciation, word choice, and syntax. Topics range from oral everyday life themes to discussion of a variety of written texts.
- 3043 RHETORIC AND POETICS**
 (3-0) 3 hours credit. Prerequisite: GER 3033.
 A brief introduction to the art of orderly and persuasive discourse. Descriptions of figures of speech, *topoi* and general structure of the oration. Meter and melody in poetic diction.
- 3113 INTRODUCTION TO GERMAN LINGUISTICS**
 (3-0) 3 hours credit. Prerequisite: GER 2023 or GER 2123.
 Application to German of the basic principles of analysis and description of language structure. Attention given to structural regularities at the levels of sound, word formation, and syntax; also

to the relationship between some irregularities and historical change and to dialectal variation.

3123 APPLIED GERMAN LINGUISTICS

(3-0) 3 hours credit. Prerequisite: GER 2023 or GER 2123.

Practical application of linguistic principles to the teaching of German. Attention given to problems involved with the contrast between the structures of German and English.

3313 INTRODUCTION TO LITERARY STUDIES

(3-0) 3 hours credit. Prerequisite: GER 2023 or GER 2123.

The concept of literature. Function of literature. Literary genres and their structure. Literary periodification and literary history. Literature. Stylistics. Linguistics.

3323 INTRODUCTORY READINGS IN GERMAN LITERATURE

(3-0) 3 hours credit. Prerequisite: GER 2023 or GER 2123.

An elementary sampling of a number of literary masterpieces through periods, genres and styles.

3333 GERMAN LITERATURE IN ENGLISH TRANSLATION

(3-0) 3 hours credit.

May not be applied to a major or minor in German. Major works of German literature. Themes, genres, and movements. May be repeated for credit when topics vary.

3613 CONTEMPORARY GERMANY

(3-0) 3 hours credit. Prerequisite: GER 2023 or GER 2123.

(Sections in German or English; credit for the course when given in English may not be applied to a major in German.)

Problems and conflicts determining the cultural development of contemporary Germany. Ethnic, social, political, economic and cultural characteristics as seen mainly through the essay. Intellectual currents and the role of the intellectual leaders in forming the cultural expression of Germany.

3623 GERMAN CULTURE AND CIVILIZATION

(3-0) 3 hours credit. Prerequisite: GER 2023 or GER 2123.

(Sections in German or English; credit for the course when given in English may not be applied to a major in German.)

The cultural life of the respective geographic regions and social strata of Germany as reflected in and interpreted by its literary production, especially the novel.

4113 INTRODUCTION TO GERMAN DIALECTOLOGY

(3-0) 3 hours credit. Prerequisite: GER 3133.

A survey of the salient characteristics of the dialects of Germany. Some attention given to principles of dialectology, but most emphasis on substantive facts about the language.

4313 MEDIEVAL GERMAN LITERATURE

(3-0) 3 hours credit. Prerequisite: GER 3133.

The languages of literature: oral and written. Genres and themes. The Nibelungen cycle and the *Nibelungenlied*. Lyric poetry and its forms. The courtly Romance and the *Tristan and Isolde* myth.

Origins of the drama. (Old High German texts will be read in Modern German or English translations.)

4323 RENAISSANCE AND BAROQUE LITERATURE

(3-0) 3 hours credit. Prerequisite: GER 3313.

Styles and ideologies: definitions and correlations. The Reformation, the Counterreformation and their influence on the creative process. Emphasis on Luther, Grimmelshausen, Gryphius. German Baroque and Romanic Baroque.

4333 GERMAN ENLIGHTENMENT

(3-0) 3 hours credit. Prerequisite: GER 3313.

The dawn of Classicism. Rediscovery and interpretation of Classical Antiquity. Wieland, Lessing, Herder, the Schlegels, and the formation of a new concept of literature.

4343 EARLY TWENTIETH CENTURY CRISIS

(3-0) 3 hours credit. Prerequisite: GER 3313.

Study of the emergence of modern literary *Stimmung*. Readings of Hauptman, George, Rilke, and a survey of Naturalism, Impressionism and Symbolism.

4353 GOETHE

(3-0) 3 hours credit. Prerequisite: GER 3313.

Readings of Goethe's *Faust* and *Werther*: analysis of their structures and themes with particular consideration to their ideological frameworks, symbolic meanings and their subsequent influence.

4363 SCHILLER

(3-0) 3 hours credit. Prerequisite: 3313.

Readings and analysis of Schiller's *Die Rauber*, *Kabale und Liebe*, and *Don Carlos*. Schiller's correspondence with Goethe as a statement of their aesthetic development.

4373 ROMANTICISM

(3-0) 3 hours credit. Prerequisite: GER 3313.

Its ideology, philosophy, literary theories. Its European expansion. Genres, themes, authors, works. Emphasis on Novalis, Heine, Holderlin, Von Kleist, Lenau, and Hoffmann.

4383 THE NOVELLE

(3-0) 3 hours credit. Prerequisite: GER 3313.

Structure, themes, authors. Its relations to the short story and the "nouvelle."

4393 CONTEMPORARY GERMAN LITERATURE I

(3-0) 3 hours credit. Prerequisite: GER 3313.

German Expressionism and its influence on genres, themes and structures. Kafka, Thomas Mann, G. Grass and prose fiction.

4403 CONTEMPORARY GERMAN LITERATURE II

(3-0) 3 hours credit. Prerequisite: GER 4393.

Brecht, Durrenmat and the drama. G. Benn and poetry. Foundations of German Literaturwissenschaft: Walzel, Jolles, Imgarden, Kayser, Staiger.

BACHELOR OF ARTS DEGREE IN RUSSIAN

The minimum number of semester hours required for this degree, including the 50 hours of General Education Requirements, is 120. All candidates for the degree must complete:

- A. 30 semester hours in the *major*, all of which must be at the upper-division level. Required courses are: RUS 3013, 3023, 3113 or 3123, 3313, 3323, 3613, 3623. The remaining 9 hours must be distributed as follows:
 - 1) 1 literature course and 2 language courses, or
 - 2) 2 literature courses and 1 language course.
- B. 18 semester hours of *support work*, 9 of which must be at the upper-division level. These courses may be selected from the areas of history of art and criticism, English, classics, humanities, philosophy, anthropology, history, sociology, or courses in foreign languages other than Russian.
- C. 22 semester hours of *free electives* which may be chosen from throughout The University's offerings.

COURSE DESCRIPTIONS

RUSSIAN (RUS)

1013 ELEMENTARY RUSSIAN I

(3-1) 3 hours credit.

Fundamentals of Russian, aimed at developing abilities in speaking, understanding, reading, and writing.

1023 ELEMENTARY RUSSIAN II

(3-1) 3 hours credit. Prerequisite: RUS 1013 or the equivalent.

Fundamentals of Russian, aimed at developing abilities in speaking, understanding, reading, and writing. A continuation of RUS 1013.

1113 READING RUSSIAN FOR BEGINNERS I

(3-1) 3 hours credit.

Development of reading techniques; stress on syntactical structures and vocabulary acquisition. Progression through various forms of written expression.

1123 READING RUSSIAN FOR BEGINNERS II

(3-1) 3 hours credit. Prerequisite: RUS 1113 or the equivalent.

Development of reading techniques; stress on syntactical structures and vocabulary acquisition. Progression through various forms of written expression. A continuation of RUS 1113.

- 2013 SECOND YEAR RUSSIAN I**
(3-0) 3 hours credit. Prerequisite: RUS 1023 or the equivalent.
Continued skill development in comprehension, speaking, reading and writing Russian. Review of Russian grammar, and development of reading techniques.
- 2023 SECOND YEAR RUSSIAN II**
(3-0) 3 hours credit. Prerequisite: RUS 2013 or the equivalent.
Continued skill development in comprehension, speaking, reading and writing Russian. Review of Russian grammar, and development of reading techniques. Expansion of reading and writing capabilities. A continuation of RUS 2013.
- 2113 SECOND YEAR RUSSIAN READING I**
(3-0) 3 hours credit. Prerequisite: RUS 1123 or the equivalent.
Readings in various disciplines aimed at familiarity with different types of vocabulary and language structure.
- 2123 SECOND YEAR RUSSIAN READING II**
(3-0) 3 hours credit. Prerequisite: RUS 2113.
Readings in various disciplines aimed at familiarity with different types of vocabulary and language structure. Further study of lexical and syntactical matters aimed at increased speed and comprehension in reading. A continuation of RUS 2113.
- 3013 PHONETICS AND PRONUNCIATION**
(3-1) 3 hours credit. Prerequisite: RUS 2023 or RUS 2123.
Intensive patterned pronunciation drills and exercises in sound discrimination and transcription, based on detailed articulatory description of various dialects of Russian.
- 3023 ADVANCED COMPOSITION**
(3-0) 3 hours credit. Prerequisite: RUS 2023 or RUS 2123.
Selected grammar review. Theme writing and diagnosis of the grammatical problems of individual students.
- 3033 ADVANCED CONVERSATION**
(3-0) 3 hours credit. Prerequisite: RUS 2023 or RUS 2123.
Conversation correlated with readings and reports aimed at increasing oral fluency by vocabulary expansion and the active use of forming grammatical sentences. Attention given to the students' pronunciation, word choice, and syntax. Topics range from oral everyday life themes to discussion of a variety of written texts.
- 3043 RHETORIC AND POETICS**
(3-0) 3 hours credit. Prerequisite: RUS 3033.
A brief introduction to the art of orderly and persuasive discourse. Descriptions of figures of speech, *topoi* and general structure of the oration. Meter and melody in poetic diction.
- 3113 INTRODUCTION TO RUSSIAN LINGUISTICS**
(3-0) 3 hours credit. Prerequisite: RUS 2023 or RUS 2123.
Application to Russian of the basic principles of analysis and description of language structure. Attention given to structural regularities at the levels of sound, word formation, and syntax; also

the relationship between some irregularities and historical change and to dialectal variation.

3123 APPLIED RUSSIAN LINGUISTICS

(3-0) 3 hours credit. Prerequisite: RUS 2023 or RUS 2123.

Practical application of linguistic principles to the teaching of Russian. Attention given to problems involved with the contrast between the structures of Russian and English.

3313 INTRODUCTION TO LITERARY STUDIES

(3-0) 3 hours credit. Prerequisite: RUS 2023 or RUS 2123.

The concept of literature. Function of literature. Literary genres and their structure. Literary periodification and literary history. Literature. Stylistics. Linguistics.

3323 INTRODUCTORY READINGS IN RUSSIAN LITERATURE

(3-0) 3 hours credit. Prerequisite: RUS 2023 or RUS 2123.

An elementary sampling of a number of literary masterpieces through periods, genres and styles.

3333 RUSSIAN LITERATURE IN ENGLISH TRANSLATION

(3-0) 3 hours credit.

May not be applied to a major in Russian. Major works of Russian literature, themes, genres, movements. May be repeated for credit when topics vary.

3613 CONTEMPORARY RUSSIA

(3-0) 3 hours credit. Prerequisite: RUS 2023 or RUS 2123.

Problems and conflicts determining the cultural development of contemporary Russia. Ethnic, social, political, economic and cultural characteristics as seen mainly through the essay. Intellectual currents and the role of the intellectual leaders in forming the cultural expression of Russia.

3623 RUSSIA — CULTURE AND CIVILIZATIONS

(3-0) 3 hours credit. Prerequisite: RUS 2023 or RUS 2123.

The cultural life of the respective geographic regions and social strata of Russia as reflected in and interpreted by its literary production, especially the novel.

4113 INTRODUCTION TO RUSSIAN DIALECTOLOGY

(3-0) 3 hours credit. Prerequisite: RUS 3113.

A survey of the salient characteristics of the dialects of Russia. Some attention given to principles of dialectology, but most emphasis on substantive facts about the language.

4313 PROBLEMS AND METHODOLOGY FOR A HISTORY OF RUSSIAN LITERATURE

(3-0) 3 hours credit. Prerequisite: RUS 3313.

The unique problems and methods for reconstructing the literary history of Russia. Russian literary genres and themes. Their Western European counterparts: a study of contrasts.

4323 THE RUSSIAN FOLKTALE AND THE RUSSIAN BALLAD

(3-0) 3 hours credit. Prerequisite: RUS 3313.

A study of two main literary forms in oral tradition. Their themes

and structures. Their influence on non-traditional written literature. Survey of the critical theories, from Romantic philology to Modern Formalism, attempting an analysis of the folktale and the ballad.

4333 NINETEENTH CENTURY RUSSIAN LITERATURE

(3-0) 3 hours credit. Prerequisite: RUS 3313.

Periods, genres, styles and authors. Literature and social structure: bourgeois and antibourgeois undercurrents. Literary creation and social status in a caste society. Selected readings from Fet, Pushkin, Tolstoy, Dostoyevski, Chekhov, Beli and Lermontov.

4343 NINETEENTH CENTURY RUSSIAN LITERATURE

(3-0) 3 hours credit. Prerequisite: RUS 3313 and RUS 4333.

Periods, genres, styles and authors. Literature and social structure: bourgeois and antibourgeois undercurrents. Literary creation and social status in a caste society. Selected readings from Fet, Pushkin, Tolstoy, Dostoyevski, Chekhov, Beli and Lermontov. A continuation of RUS 4333.

4353 TOLSTOY

(3-0) 3 hours credit. Prerequisite: RUS 3313.

Readings and interpretation of Tolstoy's major works: *War and Peace*, *Anna Karenina*, *Resurrection*, *Kreutzer's Sonata*. Particular emphasis on *War and Peace* as a structural archetype for the subsequent development of the European novel. Perusal of Tolstoy's ideas on art.

4363 DOSTOYEVSKI

(3-0) 3 hours credit. Prerequisite: RUS 3313.

Readings and interpretation of Dostoyevski's major works: *The Brothers Karamazov*, *Crime and Punishment*, *The Idiot*. Particular emphasis on the impact that Dostoyevski's fictional world and its structure had upon the subsequent European novel.

4373 INTRODUCTION TO RUSSIAN FORMALISM

(3-0) 3 hours credit. Prerequisite: RUS 3313.

A study of poetic theory as stated by the founders of "Opojaz" (society for the study of poetic language). Science of literature as "literaturnost" (literaryness). Opojaz' relationship to linguistics. Perusal of the theorists: Shlovski, Eichenbaum, Tynjanov, R. Jakobson, Propp. Their impact on a Western European structural approach to literature. (Todorov, Barthes, Bremond.)

4383 STABILITY AND PRE-REVOLUTION

(3-0) 3 hours credit. Prerequisite: RUS 3313.

Social and literary symptoms. The tradition of social reform: Tolstoy and the Utopians, Bacunin and the anarchists, echoes of Marxian theory.

BACHELOR OF ARTS DEGREE IN SPANISH

The minimum number of semester hours required for this degree, including the 50 hours of General Education Requirements, is 120.* All candidates for the degree must complete:

- A. 27 semester hours in the *major*, all of which must be at the upper-division level. Required courses are: SPN 3013, 3023, 3313, 3323, 3613 or 3623, 3633 or 3643. The remaining 9 semester hours must be distributed as follows: 1) 2 literature courses and 1 culture course, 2) two literature courses and 1 language course, 3) 1 literature course, 1 culture course, and 1 language course, 4) 1 literature course and 2 culture courses, 5) 1 literature course and 2 language courses, or 6) 1 culture course and 2 language courses.
- B. 21 semester hours of *support work*, 9 of which must be at the upper-division level. These courses may be selected from the areas of history of art and criticism, English, classics, humanities, philosophy, anthropology, history, sociology, or courses in foreign languages other than Spanish.
- C. 22 semester hours of *free electives* which may be chosen from throughout The University's offerings.

COURSE DESCRIPTIONS

SPANISH

(SPN)

1013 ELEMENTARY SPANISH I

(3-1) 3 hours credit.

Fundamentals of Spanish, aimed at developing abilities in understanding, speaking, reading, and writing.

1023 ELEMENTARY SPANISH II

(3-1) 3 hours credit. Prerequisite: SPN 1013 or the equivalent.

Fundamentals of Spanish, aimed at developing abilities in understanding, speaking, reading, and writing. A continuation of SPN 1013.

1113 READING SPANISH FOR BEGINNERS I

(3-1) 3 hours credit.

Development of reading techniques; stress on syntactical struc-

*Thirty-nine of the total semester hours required for the degree must be at the upper-division level.

- tures and vocabulary acquisition. Progression through various forms of written expression.
- 1123 READING SPANISH FOR BEGINNERS II**
(3-1) 3 hours credit. Prerequisite: SPN 1113 or the equivalent.
Development of reading techniques; stress on syntactical structures and vocabulary acquisition. Progression through various forms of written expression. A continuation of SPN 1113.
- 1213 SPANISH FOR SPANISH SPEAKERS I**
(3-1) 3 hours credit.
Development of the language proficiency of Spanish speakers building on advanced native abilities through in-depth practice in speaking, reading and writing Spanish.
- 1223 SPANISH FOR SPANISH SPEAKERS II**
(3-0) 3 hours credit. Prerequisite: SPN 1213.
Development of the language proficiency of Spanish speakers building on advanced native abilities through in-depth practice in speaking, reading and writing Spanish. A continuation of SPN 1213.
- 2013 SECOND YEAR SPANISH I**
(3-0) 3 hours credit. Prerequisite: SPN 1023 or the equivalent.
Continued skill development in comprehension, speaking, reading and writing Spanish. Review of Spanish grammar, and development of reading techniques.
- 2023 SECOND YEAR SPANISH II**
(3-0) 3 hours credit. Prerequisite: SPN 2013 or the equivalent.
Continued skill development in comprehension, speaking, reading and writing Spanish. Review of Spanish grammar, and development of reading techniques. Expansion of reading and writing capabilities. A continuation of SPN 2013.
- 2113 SECOND YEAR SPANISH READING I**
(3-0) 3 hours credit. Prerequisite: SPN 1123 or the equivalent.
Readings in various disciplines aimed at familiarity with different types of vocabulary and language structure.
- 2123 SECOND YEAR SPANISH READING II**
(3-0) 3 hours credit. Prerequisite: SPN 2113 or the equivalent.
Readings in various disciplines aimed at familiarity with different types of vocabulary and language structure. Further study of lexical and syntactical matters aimed at increased speed and comprehension in reading. A continuation of SPN 2113.
- 2213 SPANISH FOR SPANISH SPEAKERS III**
(3-0) 3 hours credit. Prerequisite: SPN 1223.
Development of the language proficiency of Spanish speakers building on advanced native abilities through in-depth practice in speaking, reading and writing Spanish. Increased emphasis on language variation: Stylistic (i.e., formal vs. colloquial) and geographical (Southwest United States vs. other dialects, such as Mexico, the rest of Spanish America, and Spain). A continuation of SPN 1223.

- 3013 PHONETICS AND PRONUNCIATION**
 (3-1) 3 hours credit. Prerequisite: SPN 2023, SPN 2123 or SPN 2213.
 Intensive patterned pronunciation drills and exercises in sound discrimination and transcription, based on detailed articulatory description of various dialects of Spanish.
- 3023 ADVANCED COMPOSITION**
 (3-0) 3 hours credit. Prerequisite: SPN 2023, SPN 2123 or SPN 2213.
 Selected grammar review. Theme writing and diagnosis of the grammatical problems of individual students.
- 3033 ADVANCED CONVERSATION**
 (3-0) 3 hours credit. Prerequisite: SPN 2023, SPN 2123 or SPN 2213.
 Conversation correlated with readings and reports, aimed at increasing oral fluency by vocabulary expansion and the active use of forming grammatical sentences. Attention given to the students' pronunciation, word choice, and syntax. Topics range from oral everyday life themes to discussion of a variety of written texts.
- 3043 RHETORIC AND POETICS**
 (3-0) 3 hours credit. Prerequisite: SPN 3033.
 A brief introduction to the art of orderly and persuasive discourse. Descriptions of figures of speech, *topoi* and general structure of the oration. Meter and melody in poetic diction.
- 3113 INTRODUCTION TO SPANISH LINGUISTICS**
 (3-0) 3 hours credit. Prerequisite: SPN 2023, SPN 2123 or SPN 2213.
 Application to Spanish of the basic principles of analysis and description of language structure. Attention given to structural regularities at the levels of sound, word formation, and syntax; also to the relationship between some irregularities and historical change and to dialectal variation.
- 3123 APPLIED SPANISH LINGUISTICS**
 (3-0) 3 hours credit. Prerequisite: SPN 2023, SPN 2123 or SPN 2213.
 Practical application of linguistic principles to the teaching of Spanish. Attention given to problems involved with the contrast between the structures of Spanish and English.
- 3313 INTRODUCTION TO LITERARY STUDIES**
 (3-0) 3 hours credit. Prerequisite: SPN 2023, SPN 2123 or SPN 2213.
 The concept of literature. Function of literature. Literary genres and their structure. Literary periodification and literary history. Literature. Stylistics. Linguistics.
- 3323 INTRODUCTORY READINGS IN HISPANIC LITERATURES**
 (3-0) 3 hours credit. Prerequisite: SPN 2023, SPN 2123 or SPN 2213.
 An elementary sampling of a number of literary masterpieces through periods, genres and styles.

- 3333 SPANISH LITERATURE IN ENGLISH TRANSLATION**
(3-0) 3 hours credit.
May not be applied to a major in Spanish. Major works of Spanish Literature, themes, genres, movements. May be repeated for credit when topics vary.
- 3613 HISPANIC CULTURE AND CIVILIZATION**
(3-0) 3 hours credit. Prerequisite: SPN 2023, SPN 2123 or SPN 2213.
(Sections in Spanish or English; credit for the course when given in English may not be applied to a major in Spanish.)
Emergence of Hispanic peoples and customs in Spain and Spanish America from pre-historic and pre-Columbian times to the present. The reflection in literature of cultural traditions, myths, values, and life-view.
- 3623 SPANISH-AMERICAN CULTURE AND CIVILIZATION**
(3-0) 3 hours credit. Prerequisite: SPN 2023, SPN 2123 or SPN 2213.
(Sections in Spanish or English; credit for the course when given in English may not be applied to a major in Spanish.)
The cultural life of the respective geographic regions and social strata of Spanish America as reflected in and interpreted by its literary production, especially the novel.
- 3653 CONTEMPORARY SPAIN**
(3-0) 3 hours credit. Prerequisite: SPN 2023, SPN 2123 or SPN 2213.
(Sections in Spanish or English; credit for the course when given in English may not be applied to a major in Spanish.)
Problems and conflicts determining the cultural development of contemporary Spain. Social, political, economic and cultural characteristics as seen through intellectual currents and the role of intellectual leaders in forming Spain's cultural expression. The impact of the writers of the Generation of 1898 through the Spanish Civil War to present day Spain, as seen in the essay and other literary forms.
- 3663 CONTEMPORARY SPANISH AMERICA**
(3-0) 3 hours credit. Prerequisite: SPN 2023, SPN 2123 or SPN 2213.
(Sections in Spanish or English; credit for the course when given in English may not be applied to a major in Spanish.)
Problems and conflicts determining the cultural development of contemporary Spanish America. Ethnic, social, political, economic and cultural characteristics as seen mainly through the essay. Intellectual currents and the role of the intellectual leaders in forming the cultural expression of Spanish America.
- 4113 INTRODUCTION TO HISPANIC DIALECTOLOGY**
(3-0) 3 hours credit. Prerequisite: SPN 3113.
A survey of the salient characteristics of the Spanish dialects of Spain and Spanish America. Some attention given to principles of dialectology, but most emphasis on substantive facts about the language.

- 4313 **MEDIEVAL HISPANIC LITERATURE**
(3-0) 3 hours credit. Prerequisite: SPN 3313.
Literary languages, genres and themes in Medieval Spain from the Romanesque to the Gothic. Particular attention to *Poema del Cid*, *Libro de Buen Amor* and *La Celestina*.
- 4323 **CERVANTES' *DON QUIJOTE***
(3-0) 3 hours credit. Prerequisite: SPN 3313.
A reading of *Don Quijote*: analysis of the novel's structure and themes with special consideration of its stylistic patterns, ideological framework and symbolic meanings.
- 4333 **SPANISH RENAISSANCE AND BAROQUE LITERATURE**
(3-0) 3 hours credit. Prerequisite: SPN 3313.
Medieval tradition and Italian innovations and their influence on Spanish poetry, drama and narration. Special attention to the poetry of Garcilaso de la Vega and Góngora, to the drama of Lope de Vega, Tirso de Molina, and Calderón, and to *Lazarillo de Tormes* and narration.
- 4343 **SPANISH LITERATURE OF THE NINETEENTH CENTURY**
(3-0) 3 hours credit. Prerequisite: SPN 3313.
Major movements and authors. Themes, genres, relationships to other European literatures. Includes "costumbrismo," Romanticism and Realism.
- 4353 **THE GENERATION OF 1898 TO THE 1936 CIVIL WAR**
(3-0) 3 hours credit. Prerequisite: SPN 3313.
Generation of 1898: the concept, the authors, the themes, the works. Unamuno, Azorín, Machado, Benavente, Baroja, and Valle-Inclán. Influence on Spanish literature to the beginning of the Civil War: Ortega and García Lorca.
- 4363 **SPANISH LITERATURE FROM THE CIVIL WAR (1936) TO THE PRESENT**
(3-0) 3 hours credit. Prerequisite: SPN 3313.
Spanish Civil War and its effect on literature. The emergence of the writer-in-exile. Stagnation and innovation. The great literary themes of post-war Spain in poetry, drama and narrative.
- 4423 **SPANISH-AMERICAN RENAISSANCE AND BAROQUE**
(3-0) 3 hours credit. Prerequisite: SPN 3313.
Repetition and innovation in the literature originating in the New World. Its themes, forms, style and functions. Particular emphasis on the "cronistas," on Ercilla's *La Araucana* and on Sor Juana Inés de la Cruz.
- 4433 **SPANISH-AMERICAN ROMANTICISM**
(3-0) 3 hours credit. Prerequisite: SPN 3313.
Its roots in eighteenth century ideology and life. European influences and Spanish American responses in poetry, including "poesía gauchesca," drama, novel, and essay.
- 4443 **SPANISH-AMERICAN MODERNISM**
(3-0) 3 hours credit. Prerequisite: SPN 3313.
Modernism: concept, influences, genres, themes, authors, and works.

- 4453 SPANISH-AMERICAN PROSE AND POETRY AFTER MODERNISM TO 1940.**
 (3-0) 3 hours credit. Prerequisite: SPN 3313.
 Literary movements, authors, and works. Focus on "vanguardista" poetry and early twentieth century novel, short story, and essay.
- 4463 CONTEMPORARY SPANISH-AMERICAN POETRY AND DRAMA**
 (3-0) 3 hours credit. Prerequisite: SPN 3313.
 Literary themes and structures, poets (Neruda, Borges, Paz) and dramatists (Usigli, Gorostiza, Heiremans).
- 4473 CONTEMPORARY SPANISH-AMERICAN PROSE**
 (3-0) 3 hours credit. Prerequisite: SPN 3313.
 The novel, short story, and essay: Asturias, Carpentier, Cortázar, Fuentes, García-Márquez, Paz, Reyes, Rulfo, Sábato, Vargas-Llosa, and Yáñez.
- 4483 NATIONAL LITERATURES OF SPANISH AMERICA**
 (3-0) 3 hours credit. Prerequisite: SPN 3313.
 Representative works from the national literatures of Spanish America. May be repeated for credit when topics vary.
- 4493 MEXICAN-AMERICAN LITERATURE**
 (3-0) 3 hours credit.
 Readings and discussion of works by Mexican-American writers. The expression through poetry, the novel, the short story and the theatre. Selections from popular literature including the oral tradition. Mexican-American literature as part of Mexican and U.S. American literary traditions.

COURSE DESCRIPTIONS

LINGUISTICS

(LNG)

- 3813 INTRODUCTION TO LINGUISTICS**
 (3-0) 3 hours credit.
 Basic principles of analysis and description of the structure of language. Attention given to the various levels: sound, syntax, and semantics; to both the historical and structural axes; and to language variation (geographical and social).
- 3823 INTRODUCTION TO PHONETICS**
 (3-1) 3 hours credit.
 Speech production from an articulatory point of view, including a survey of speech sounds found in various languages. The elements of the acoustic structure of speech sounds.
- 3833 SOCIOLOGY OF LANGUAGE**
 (3-0) 3 hours credit.
 Societal patterns regarding language variation and their implications for language maintenance and shift. Degree of mutual interrelations between language and culture. The study of language in its social context. Language variation and linguistic change.

3843 PSYCHOLOGY OF LANGUAGE

(3-0) 3 hours credit. Prerequisite: LNG 3813 or consent of instructor.

A study of the psychology of language in relation to the mind and behavior of man with emphasis placed upon the distinction between competence and performance.

DIVISION OF SOCIAL SCIENCES

The object of the social sciences is to investigate human social behavior, past and present, in all its forms. Anthropology, geography, history, political science, psychology and sociology are parts of that endeavor. The Division of Social Sciences offers bachelor of arts degrees in each of these fields, except psychology. Students are encouraged to enrich their knowledge of one discipline by including course work from the others.

The Major. By majoring in any of the above areas, a student has elected to invest a significant part of his or her university education in the study of one of the social sciences, its scope, its methods, and its findings. At graduation, the student should be knowledgeable of the basics of his discipline, its relation to the other social sciences, its present state of development and its principal research frontiers.

A major in the social sciences can be an end in itself or a prelude to a professional career. Many students view the major as an opportunity to explore one of the social sciences in depth within an organized program of instruction and advising. Others intend the major as the beginning of career training, for instance, law, medicine, the allied health professions, education, social services, and the professional social sciences. The program is designed to be productive for students of either persuasion.

The basic form of all social science majors is a set of courses ranging from elementary to advanced. Some are specified by the program while others may be selected from the general offerings of the discipline. The latter provision enables the student to place emphasis on sectors of the field holding particular interest. In the final term before graduation, the student enrolls in the Social Science Conference Course, a seminar restricted to majors that seeks to cement the student's understanding of the discipline and to explore recent findings in selected areas of research in the field.

At least 30 credit hours of course work are required to fulfill a social science major. These courses must be chosen from among the courses offered in that field and from courses in other fields as specified in the catalog for each major. Of the 30 credit hours, at least 21 hours must consist of courses numbered 3000 and above. The 30-hour total is considered a minimum, and students

are encouraged to deepen and broaden their control of their field through careful allocation of some of their elective credit hours.

Interdisciplinary Studies. The Division also offers the opportunity to study one of several problem areas using the resources of various social sciences. The student electing this option takes 21 hours of course work within the discipline of his major, and 18 hours of course work in the Interdisciplinary Problem Area. In the final term before graduation, the student enrolls in the Social Science Conference Course.

In choosing this option, the student establishes a foundation in one of the social science disciplines, and also takes advanced studies of one of the Interdisciplinary Problem Areas. The student graduates with a major in a principal discipline. For the major a total of 39 credit hours is required. A listing of the available Interdisciplinary Problem Areas and the courses which comprise them appears below.

Honors. A few weeks before the beginning of the final semester, the student may elect to take a comprehensive examination administered by the Division. Distinguished performance on the examination will lead to the designation as an honors student for the final semester. The honors student enrolls in Honors Seminar in lieu of the Social Science Conference Course. In addition, honors students enroll in Honors Thesis, a faculty tutorial, the end product of which is a thesis based on research.

Interdisciplinary Problem Areas

Social Science majors may select one of the following Interdisciplinary Problem Areas in conjunction with the major. Each problem area is composed of a set of specially designed upper-division level courses examining a given problem or area of scholarship using the tools of several disciplines. Students enrolled in a problem area finish the major with the Social Science Conference Course designed to integrate the contributions of the social sciences involved. Rules and procedures governing the problem areas are set out above and in the information given for each social science major.

1. Urbanization and Growth in Industrial Society

An examination and comparison of the contributions of several social science disciplines to understanding the

process of urbanization and the character of industrial society. A recurring theme is urbanism as a world phenomenon and the usefulness of studying data from other countries and other times for understanding that process in the United States. Students select the Social Science Conference Course (SSC 4513), one course on a topic of urbanization from environmental management courses ENV 3033, 3523, 4503, or 4513, and four of the five courses below.

- SOC 2023 Urban Sociology
- ECO 3403 Economic Aspects of Urbanization
- POL 3413 The Politics of Urbanizing Societies
- ANT 3673 Origins of Civilization
- HIS 4183 Industrialization and Social Change

2. *The Developing Third World*

This area covers the nature, history, and current problems of the non-industrialized world. The "Third World" so defined is frequently considered in terms of its potential role as a third force in international relations, a role that in turn is thought to be based upon common problems, historical experiences, and outlooks among the world's "underdeveloped" nations. The particular concern of this problem area is not the international political aspect of the Third World, but rather the domestic factors that may be common among the Third World nations. Aspects of this problem area are: the role of colonialism as a common factor in the historical backgrounds of the Third World nations, theory and reality behind attempts at economic development, societal problems confronting nations in the process of modernization, and the internal politics of developing countries. Students select the Social Science Conference Course (SSC 4513) and five of the six courses below.

- ANT 3183 Peasant Societies and Modernization
- POL 3423 Social Conflict in the Third World: Classes, Minorities and Traditional Structures
- POL 3433 Leadership and Modernization in the Third World
- GRG 3353 Natural Resources and the Developing Nations
- HIS 4193 Colonialism: A Comparative Approach
- ECO 4303 Economic Problems of Emerging Nations

3. *Ethnic Studies of the American Southwest*

This area focuses upon an examination of Southwestern ethnicity from several vantage points. The dynamics of ethnic interaction are the major focus, with attention to the structure of social pluralism, its cultural backgrounds, historical evolution, political movements, literary expression and cultural geography. The basic content of the program derives from sociology, history, anthropology, political science, and Spanish. Students select the Social Science Conference Course (SSC 4513) and five of the remaining six courses.

- HIS 3133 History of Minorities in the Southwest
- SOC 3133 Sociology of Pluralism in the Southwest
- ANT 3283 Native Cultures of the American Southwest
- BBL 3023 Mexican-American Culture
- POL 3293 Ethnic Politics in the Southwest
- SPN 4493 Mexican-American Literature

BACHELOR OF ARTS DEGREE IN ANTHROPOLOGY

Anthropology is the study of man's cultural behavior — that body of customs and ideas which continues from generation to generation, serves the same function that instinctual patterns do in lower animals, and varies markedly from one human population to another. Among the subfields of anthropology are archaeology, the reconstruction and explanation of man's cultural past; cultural anthropology, the study of cultural variation among contemporary peoples; and physical anthropology, the study of fossil man and the physiological bases of cultural behavior.

The minimum number of semester hours required for this degree, including the 50 hours of General Education Requirements, is 120.*

*Thirty-nine of the total semester hours required for the degree must be at the upper-division level.

All candidates for the degree must complete:

- A. 30 semester hours in the *major*, 21 of which must be at the upper-division level.

Required courses are: ANT 1013; ANT 2013 or 2023; SSC 4513. The remaining credit hours will be chosen in consultation with the student's Advisor and should include at least one each in cultural anthropology, physical anthropology, and archaeology. Six semester hours may be applied to the major from: HIS 3113; LNG 3833; MAT 3013; SOC 3013; and SOC 3133.

- B. The student may select 40 semester credit hours of *free electives*.

Interdisciplinary Problem Area

Candidates for the degree who elect an Interdisciplinary Problem Area must complete 39 semester hours for the combined major and the Interdisciplinary Problem Area.

- A. 21 hours of Anthropology exclusive of those in the Problem Area are required including ANT 1013, ANT 2013 or ANT 2023 plus one course each of cultural anthropology, physical anthropology, and archaeology.
- B. 18 semester hours in the problem area.
- C. 31 semester hours of *free electives*.

COURSE DESCRIPTIONS

ANTHROPOLOGY

(ANT)

1013 MAN IN ADAPTATION

(3-0) 3 hours credit.

The study of man's culture, past and present; its origins, development, and contemporary change; and the explorations of man's physical and cultural differences, using the paradigm of adaptation.

2013 ANTHROPOLOGICAL INQUIRY: ARCHAEOLOGY AND PHYSICAL ANTHROPOLOGY

(3-0) 3 hours credit. Prerequisite: ANT 1013.

A problem-solving approach to classic and contemporary questions in archaeology and physical anthropology. Stress is on the nature of anthropological inquiry as reflected in these two fields.

- 2023 ANTHROPOLOGICAL INQUIRY: CULTURAL ANTHROPOLOGY AND LINGUISTICS**
(3-0) 3 hours credit. Prerequisite: ANT 1013.
A problem-solving approach to classic and contemporary questions in cultural anthropology and linguistics. Stress is on the nature of anthropological inquiry as reflected in these two fields.
- 2113 WORLD ETHNOGRAPHY**
(3-0) 3 hours credit. Prerequisite: ANT 1013.
A survey of peoples and cultures around the world, selected to illustrate the range of human social variation.
- 3103 SOCIAL ORGANIZATION**
(3-0) 3 hours credit. Prerequisite: ANT 1013.
Comparative analyses of family and social organization, primarily among non-literate peoples.
- 3133 NATIVE PEOPLES OF NORTH AMERICA**
(3-0) 3 hours credit. Prerequisite: ANT 1013 recommended.
Native cultures of the North American continent, the effects of European expansion, and contemporary problems of American Indians.
- 3143 PEOPLES AND SOCIETIES OF LATIN AMERICA**
(3-0) 3 hours credit. Prerequisite: ANT 1013 recommended.
Contemporary peoples of indigenous Mediterranean and African origin inhabiting the Caribbean, Middle and South America.
- 3163 ANTHROPOLOGICAL APPROACHES TO MEDICINE AND NURSING**
(3-0) 3 hours credit. Prerequisite: ANT 1013 recommended.
The implications of selected core concepts for medicine, nursing, and health care research. For students intending to enter the health professions.
- 3173 ETHNOMEDICINE, THEORY AND APPLICATIONS**
(3-0) 3 hours credit. Prerequisite: ANT 1013.
Integration of socio-cultural and medical approaches to health maintenance based on cross-cultural and contemporary urban research. Evidence for the efficacy of non-Western medical practices, the interaction of medical systems in bi-ethnic social situations, cross-cultural studies of mental health and the analysis of cross-ethnic programs of medical care receive attention.
- 3183 PEASANT SOCIETIES AND MODERNIZATION**
(3-0) 3 hours credit. Prerequisite: ANT 1013 or consent of instructor.
Anthropological theory, models, and findings relative to peasants distributed world-wide and viewed as a social type. Particular attention is given to the structure of stratified plural societies and to the role of power in modernization.
- 3223 CULTURAL ECOLOGY**
(3-0) 3 hours credit. Prerequisite: ANT 1013 recommended.
Man's adaptation to environment and his interaction with it, com-

- paring simple and complex societies in various environmental contexts. This course may be taken as GRG 3223.
- 3263 ARCHAEOLOGY OF NORTH AMERICA**
(3-0) 3 hours credit. Prerequisite: ANT 1013.
Survey of prehistoric cultures in North America from earliest times to historic contact; chronology; settlement and subsistence patterns; technology.
- 3273 ARCHAEOLOGY OF MESOAMERICA**
(3-0) 3 hours credit. Prerequisite: ANT 1013.
Examination of the development of the ancient civilizations of Mexico and Central America: Olmec, Teotihuacán, Maya, Toltec, Aztec.
- 3283 NATIVE CULTURES OF THE AMERICAN SOUTHWEST**
(3-0) 3 hours credit. Prerequisite: ANT 1013.
The native American Indian cultures of the Southwestern United States are studied from various perspectives: prehistoric development; ethnography; current status.
- 3404 FIELD COURSE IN ARCHAEOLOGY**
(5-35) 4 hours credit. Prerequisite: Upper-division standing, consent of instructor, and at least one previous anthropology or archaeology course.
Intensive training in archaeological field methods: excavation, site survey, mapping, sampling, interpretation. This course is offered in Summer Session I only, and additional fees are required.
- 3503 EARLY MAN**
(3-0) 3 hours credit. Prerequisite: ANT 1013 recommended.
The fossil record of sapien emergence and the development of races.
- 3613 CROSS-CULTURAL STUDIES OF SOCIALIZATION**
(3-0) 3 hours credit. Prerequisite: ANT 1013.
Examination and evaluation of anthropological and psychological comparative studies of child-rearing in selective cultures.
- 3623 PRIMATE BEHAVIOR**
(3-2) 3 hours credit. Prerequisite: ANT 1013 or consent of instructor.
Analysis of learning, development, social and abnormal behavior among the various primate species. Observational projects at the San Antonio Zoo are part of this course.
- 3633 AGGRESSION**
This course is offered as PSY 3633 and is described with the Psychology course listings.
- 3643 ARCHAEOOMETRY**
(3-0) 3 hours credit. Prerequisite: ANT 1013.
Application of the physical and chemical sciences to archaeological problems; examination of selected topics: trade, technology, dating, settlement patterns, seasonality of occupations.

3653 PRIMITIVE TECHNOLOGY

(3-0) 3 hours credit. Prerequisite: ANT 1013.

Lectures and demonstrations illustrating the technology of ancient and contemporary pre-industrial peoples: tool manufacture and use; making artifacts of wood, stone, and metals; social and economic aspects of primitive technologies; craft specialization; subsistence and settlement technology.

3673 ORIGINS OF CIVILIZATION

(3-0) 3 hours credit. Prerequisite: ANT 1013.

Development of agriculture and village life; beginnings of civilization in the Near East and Mediterranean; comparisons with Mesoamerica, India, and China, rise of civilization in the Nile Valley.

4113 ARCHAEOLOGY OF TEXAS

(3-0) 3 hours credit. Prerequisite: ANT 3263.

Detailed review of prehistoric and historic aboriginal cultures of Texas and adjacent areas; current trends in Texas archaeology; examination of artifacts and field trips to local prehistoric sites.

4153 ETHNOGEOGRAPHY

This course is offered as GRG 4103 and is described with the Geography course listings.

4553 HONORS SEMINAR

(3-0) 3 hours credit. Prerequisite: Enrollment limited to candidates for honors in Anthropology during their last two semesters.

4563 HONORS THESIS

(3-0) 3 hours credit. Prerequisite: Enrollment limited to candidates for honors in Anthropology during their last two semesters.
To be taken concurrently with ANT 4553.

BACHELOR OF ARTS DEGREE IN GEOGRAPHY

At the core of Geography are the systems that link man to environment. Some systems are physical; for example, the carrying capacity of regions for the support of human populations, the environmental consequences of pollution, and man's proclivity to distribute his activities according to features of the natural landscape. Some systems are cultural; for example, the spatial layout of cities, cultural attitudes toward time, space and environment, and the role of environment in the founding of civilizations. The primary variable for geography is space; techniques for measuring its range from cartography to attitude surveys to stochastic models and locational theory. The major introduces the field of Geography and its applications to the governance of physical and social space.

The minimum of semester hours required for this degree, including the 50 hours of General Education Requirements, is 120.*

All candidates for the degree must complete:

- A. 30 semester hours in the *major*, 21 of which must be at the upper-division level.

Required courses are: GRG 1013; ENV 2013; SSC 4513; one course from GRG 2500-GRG 2599.

The remaining credit hours will be chosen in consultation with the student's Advisor. Six semester hours may be applied to the major from: ANT 3223, ECO 3403, and MAT 3013.

- B. The student may select 40 semester credit hours of *free electives*.

Interdisciplinary Problem Area

Candidates for the degree who elect an Interdisciplinary Problem Area must complete 39 semester hours for the combined major and the Interdisciplinary Area.

*Thirty-nine of the total semester hours required for the degree must be at the upper-division level.

- A. 21 hours of Geography exclusive of those in the problem area are required. The 21 hours must contain: two courses numbered HIS 2500-2599 and at least three courses numbered 3000 and above.
- B. 18 semester hours in the problem area.
- C. 31 semester hours of *free electives*.

COURSE DESCRIPTIONS

GEOGRAPHY

(GRG)

1013 MAN AND THE PHYSICAL WORLD

(3-0) 3 hours credit.

Introduction to the study of man's environment, the distribution of physical and biological variation, and man's response to that distribution.

2013 INTRODUCTION TO ENVIRONMENTAL SYSTEMS

This course is offered as ENV 2013 and is described with the Environmental Management course listings.

2513 THE GEOGRAPHY OF WORLD RESOURCES

(3-0) 3 hours credit. Prerequisite: GRG 1013.

The worldwide distribution of critical physical, biological and human resources, with attention to the economic and political consequences of that distribution.

2523 GEOGRAPHY OF THE AMERICAS

(3-0) 3 hours credit. Prerequisite: GRG 1013 recommended.

Survey of the physical, cultural and economic geography of the Western hemisphere.

2533 GEOGRAPHY OF EUROPE

(3-0) 3 hours credit. Prerequisite: GRG 1013 recommended.

Survey of the physical, cultural and economic geography of Eastern and Western Europe and the Mediterranean.

2543 GEOGRAPHY OF AFRICA

(3-0) 3 hours credit. Prerequisite: GRG 1013 recommended.

Survey of the physical, cultural, and economic geography of Africa and Madagascar.

2553 THE CLIMATIC ENVIRONMENT

(3-0) 3 hours credit. Prerequisite: GRG 1013 recommended.

Principles of climatology and a survey of selected world climatic regions.

2563 THE OCEANIC ENVIRONMENT

(3-0) 3 hours credit. Prerequisite: GRG 1013 recommended.

Principles of oceanography and a survey of the world's major oceanic regions.

- 3023 ESSENTIALS OF CARTOGRAPHY**
 (3-0) 3 hours credit. Prerequisite: GRG 1013.
 Introduction to the techniques of converting spatial configuration to planar surfaces.
- 3223 CULTURAL ECOLOGY**
 This course is offered as ANT 3223 and is described with the Anthropology course listings.
- 3353 NATURAL RESOURCES AND THE DEVELOPING NATIONS**
 (3-0) 3 hours credit. Prerequisite: GRG 1013 recommended.
 The role of natural resources in developing or impeding the modernization of the developing nations.
- 4103 ETHNOGEOGRAPHY**
 (3-0) 3 hours credit. Prerequisite: ANT 1013 or GRG 1013.
 The perception of physical space and environment compared cross-culturally in Western and non-Western societies. This course may be taken as ANT 4153.
- 4553 HONORS SEMINAR**
 (3-0) 3 hours credit. Prerequisite: Enrollment limited to candidates for honors in Geography during their last two semesters.
- 4563 HONORS THESIS**
 (3-0) 3 hours credit. Prerequisite: Enrollment limited to candidates for honors in Geography during their last two semesters.
 To be taken concurrently with GRG 4553.

BACHELOR OF ARTS DEGREE IN HISTORY

History is the study of the past of human society, as that past is revealed through the analysis mainly of written and oral records. The foundation of historical study is a set of methods for evaluating and interpreting historical sources and a set of attitudes toward the past, whereby non-contemporary societies are regarded as objects of investigation in themselves, as products of prior history, and the bases from which subsequent change developed. The vastness of the discipline precludes a single standard internal division of the subject; the branches of history may be categorized by geographical region (e.g., American, European), by era (e.g., medieval, modern), and by the type of human activity upon which the historian focuses (e.g., political, intellectual).

The minimum number of semester hours required for this degree, including the 50 hours of General Education Requirements, is 120.*

All candidates for the degree must complete:

- A. 30 semester hours in the *major*, 21 of which must be at the upper-division level.

Required are: at least two courses from offerings numbered HIS 2500 to HIS 2599 covering different continental areas; six courses in history at the 3000 level and above; SSC 4513. The remaining three credit hours will be chosen in consultation with the student's Advisor.

Six semester hours may be applied to the major from: ANT 3673; ECO 3183; POL 3123.

- B. The student may select 40 semester credit hours of *free electives*.

Interdisciplinary Problem Area

Candidates for the degree who elect an Interdisciplinary Problem Area must complete 39 semester hours for the combined major and the Interdisciplinary Area.

*Thirty-nine of the total semester hours required for the degree must be at the upper-division level.

- A. 21 hours of History exclusive of those in the problem area are required. The 21 hours must contain: two courses numbered HIS 2500-2599 and at least 3 courses numbered 3000 and above.
- B. 18 semester hours in the problem area.
- C. 31 semester hours of *free electives*.

COURSE DESCRIPTIONS

HISTORY

(HIS)

- 1013 UNITED STATES POLITICAL HISTORY, 1775-1865:
THE DEVELOPMENT OF AMERICAN POLITICAL
INSTITUTIONS AND THE ERA OF CONSTITUTIONAL
CRISIS
(3-0) 3 hours credit.
American political history from the Revolution through the Civil War, with emphasis on the emergence of new political structures and ideas and on the growth of fundamental constitutional conflicts within the American polity. Fulfills the legislative requirement for United States history.
- 1023 UNITED STATES POLITICAL HISTORY, 1865-1918:
THE READJUSTMENT OF THE AMERICAN
POLITICAL SYSTEM
(3-0) 3 hours credit.
Reconstruction and the adjustment of American political institutions to the problems of late nineteenth-century America; the dominance of the legislative branch and the age of reform. Fulfills the legislative requirement for United States history.
- 1033 UNITED STATES POLITICAL HISTORY, 1918 TO THE
PRESENT: POLITICS IN AN ERA OF CRISIS AND
WORLD POWER
(3-0) 3 hours credit.
Changes in the function and structure of the United States political system as it confronted new problems of social change and world power. Fulfills the legislative requirement for United States history.
- 2013 COLONIAL AMERICA AND THE FORMATION OF
AMERICAN SOCIETY
(3-0) 3 hours credit.
An examination of the elements of colonial society that most strongly influenced the development of the United States. Special emphasis on a comparison between the colonies of eastern North America and those of Spanish America. Fulfills the legislative requirement for United States history.
- 2033 ECONOMIC DEVELOPMENT AND SOCIAL CHANGE
IN THE UNITED STATES SINCE 1850
(3-0) 3 hours credit.
American industrialization and the development of modern

American society. Special attention will be paid to the economic background of industrialization, attendant social problems, immigration, race relations, and the emergence of a mass-consumption economy. Fulfills the legislative requirement for United States history.

2043 THE INTERNATIONAL RELATIONS OF THE UNITED STATES, 1783-1950

(3-0) 3 hours credit.

The diplomatic history of the United States, with particular attention to the emergence of the United States as a world power, the consequences of world power for foreign policy, and the internal roots of foreign policy. Fulfills the legislative requirement for United States history.

2053 HISTORY OF TEXAS SINCE 1836

(3-0) 3 hours credit.

A consideration of the regional history of the Southwest, with particular attention to the history of Texas during the period of independence and afterward, the annexation of the Southwest by the United States, and the political and economic development of the region in the late nineteenth and twentieth centuries. Fulfills the legislative requirement for history.

2503 EUROPEAN CIVILIZATION IN THE MIDDLE AGES

(3-0) 3 hours credit.

A survey of Western European medieval history and an examination of forces of change in the late Middle Ages which resulted in the emergence of a modern European society.

2513 EARLY MODERN EUROPE, 1400-1789

(3-0) 3 hours credit.

The development of modern political systems, societies, and intellectual life in Europe prior to the French Revolution.

2523 EUROPE SINCE 1789

(3-0) 3 hours credit.

Significant developments and trends in European politics, society, culture, and economies since the beginning of the French Revolution.

2533 LATIN AMERICA: THE COLONIAL ERA

(3-0) 3 hours credit.

Latin American history from 1492 to independence with emphasis on the formation of Latin American civilization.

2543 LATIN AMERICA: THE REPUBLICAN ERA

(3-0) 3 hours credit.

Latin American history since independence with emphasis on major nations, trends, and developments.

2553 THE FAR EAST: HISTORY AND CIVILIZATION

(3-0) 3 hours credit.

A survey of the history and culture of the Far East to the present time, with an emphasis on China and Japan.

- 2563 **THE MIDDLE EAST SINCE 622 A.D.**
(3-0) 3 hours credit.
The history of the Middle East after the rise of Islam.
- 2573 **SURVEY OF AFRICAN HISTORY**
(3-0) 3 hours credit.
African history, emphasizing the rise of major African states and civilizations, the colonial period, and independence.
- 3013 **THE AMERICAN EXPERIENCE**
(3-0) 3 hours credit.
An intensive survey of American intellectual history from the seventeenth century to the present. Fulfills the legislative requirement for United States history.
- 3023 **AMERICAN INDEPENDENCE AND NATIONAL UNITY, 1760-1820**
(3-0) 3 hours credit. Prerequisite: HIS 1013 or HIS 2013, or consent of instructor.
Origins of the American Revolution, the Revolutionary War, the struggle for unity, and the early years of nationhood. Fulfills the legislative requirement for United States history.
- 3043 **POPULISM AND PROGRESSIVISM**
(3-0) 3 hours credit. Prerequisite: HIS 1023 or HIS 2033, or consent of instructor.
Political reform movements in the late nineteenth and early twentieth centuries, with particular attention to the social conditions within which they emerged. Fulfills the legislative requirement for United States history.
- 3053 **JACKSONIAN DEMOCRACY AND NATIONAL EXPANSION, 1820-1860**
(3-0) 3 hours credit. Prerequisite: HIS 1013 or consent of instructor.
Jacksonian democracy, the rise of the two-party system, major reform movements, and the origins of the Civil War. Fulfills the legislative requirement for United States history.
- 3063 **THE BORDERLANDS, 1521-1821**
(3-0) 3 hours credit.
Spanish exploration and colonization of the northern frontiers of New Spain. The introduction of Hispanic institutions and the development of a frontier society.
- 3073 **THE BORDERLANDS SINCE 1821**
(3-0) 3 hours credit. Prerequisite: HIS 3063 recommended.
The American Southwest since 1821, comparing the histories of Texas, New Mexico, Arizona, and California.
- 3103 **HISTORY OF LABOR IN THE UNITED STATES**
(3-0) 3 hours credit. Prerequisite: HIS 2033 or consent of instructor.
An examination of factors antecedent to the rise of organized labor, the early unionizing efforts and their results, the legalization of collective bargaining, institutionalization of the union movement, and the rise of new labor interest groups.

- 3113 THE UNITED STATES AND THE AMERICAN INDIAN**
(3-0) 3 hours credit.
A history of the relations between the government of the United States and the American Indians, from the American Revolution to the present time. Attention will be given to the social structures and histories of major Indian nations, the political, economic and social background of the Indian policies of the United States, the growth of conflict between the United States and the Indian peoples, the "Indian Wars" of the late nineteenth century, and Indian policy in the twentieth century.
- 3123 HISTORY OF TEXAS: THE COLONIAL AND MEXICAN PERIODS AND THE WAR OF INDEPENDENCE**
(3-0) 3 hours credit.
Texas history from the seventeenth century through the War of Independence in 1836, emphasizing the Spanish and Mexican backgrounds of Texas and the changes which preceded Texas' independence. Fulfills the legislative requirement for history.
- 3133 HISTORY OF MINORITIES IN THE SOUTHWEST**
(3-0) 3 hours credit.
An interpretation of the historical heritage of minority groups in the Southwest, with attention to the development of ethnic and interethnic social, political, and economic institutions in the region.
- 3203 BRITAIN SINCE 1485**
(3-0) 3 hours credit.
A survey of British history, emphasizing political, social, and intellectual factors in Britain's past.
- 3213 FRANCE SINCE 1610**
(3-0) 3 hours credit. Prerequisite: HIS 2523 or consent of instructor.
An examination of major trends in French history since the death of Henry IV, with particular attention to social and cultural factors affecting the course of French political life and to the influence of France on the rest of the world.
- 3223 RUSSIA SINCE 1682**
(3-0) 3 hours credit. Prerequisite: HIS 2523 or consent of instructor.
The development of Russia since the accession of Peter the Great, including the Russian Revolution and the establishment of the Soviet state.
- 3233 GERMANY SINCE 1648**
(3-0) 3 hours credit. Prerequisite: HIS 2523 or consent of instructor.
The history of Germany since the Peace of Westphalia, emphasizing the growth of the Prussian state, the rise of German culture, Germany's unification and attainment of world power, and Germany's history since World War I.

- 3243 HISTORY OF SPAIN, c. 600 B.C. - 1832**
 (3-0) 3 hours credit.
 A survey of Spanish history from the Celtic invasions to the Spanish American wars of independence.
- 3303 HISTORY OF MEXICO**
 (3-0) 3 hours credit. Prerequisite: HIS 2533 or consent of instructor.
 The development of the Mexican nation and culture from the Aztecs to the present.
- 3323 MAKERS OF LATIN AMERICAN HISTORY**
 (3-0) 3 hours credit. Prerequisites: HIS 2523 and HIS 2524.
 A study of Latin American history through the lives of major figures from colonial times to the present.
- 3503 THE EXPANSION OF EUROPE, 1415-1800**
 (3-0) 3 hours credit. Prerequisites: HIS 2513 and HIS 2523 recommended.
 A survey of European exploration, cultural and economic expansion, colonization, and imperialism.
- 3513 THE RENAISSANCE AND REFORMATION**
 (3-0) 3 hours credit. Prerequisite: HIS 2513 or consent of instructor.
 European intellectual life from the fourteenth to the seventeenth century, emphasizing the cultural aspects of the Renaissance and Reformation.
- 3523 EUROPEAN INTELLECTUAL HISTORY**
 (3-0) 3 hours credit. Prerequisite: ENG 1033.
 An intensive survey of European intellectual history from the seventeenth century to the present.
- 3533 INTER-AMERICAN RELATIONS**
 (3-0) 3 hours credit. Prerequisite: HIS 2543 or consent of instructor.
 The history of the diplomatic relations between nations of the Americas, and the struggle for political hegemony.
- 3573 REVOLUTIONS IN LATIN AMERICA: MEXICO, BOLIVIA, CUBA, BRAZIL, AND CHILE**
 (3-0) 3 hours credit. Prerequisite: HIS 2543 or consent of instructor.
 An examination of major revolutions in Latin America, and an analysis of their results.
- 4183 INDUSTRIALIZATION AND SOCIAL CHANGE**
 (3-0) 3 hours credit.
 The process of industrialization and associated social changes, with a comparison between European industrialization in the nineteenth century and industrialization in selected developing nations of the twentieth century.
- 4193 COLONIALISM: A COMPARATIVE APPROACH**
 (3-0) 3 hours credit.
 The colonial experiences of several different areas of the world

will be analyzed and compared against the historical background of the Third World.

4553 HONORS SEMINAR

(3-0) 3 hours credit. Prerequisite: Enrollment limited to candidates for honors in History during their last two semesters.

4563 HONORS THESIS

(3-0) 3 hours credit. Prerequisite: Enrollment limited to candidates for honors in History during their last two semesters. To be taken concurrently with HIS 4553.

BACHELOR OF ARTS DEGREE IN POLITICAL SCIENCE

Political science is the study of public decisions, the principles and processes by which, and the structures through which, they are made. It is concerned with the conflict among different social values and interests as they influence and are influenced by the behavior of governments and politicians. Traditionally, political science has been associated with the study of history, law, and philosophy; the contemporary discipline is more closely allied with sociology and economics. These influences are reflected in the diversity of approaches and methods used in the field. Among the major subdivisions of political science are American government and politics, comparative politics, international politics, public law, public administration, and political philosophy.

The minimum number of semester hours required for this degree, including the 50 hours of General Education Requirements, is 120.*

All candidates for the degree must complete:

- A. 30 semester hours in the *major*, 21 of which must be at the upper-division level.

Required courses are: one introductory course numbered POL 1013 through 2493; two subfield series numbered POL 2503 through 2693; SSC 4513.

18 semester hours in political science and eligible offerings from other disciplines numbered 3000 and above. Six semester hours may be applied to the major from: ANT 3183; ECO 3273; HIS 3553; HIS 4193.

- B. The student may select 40 semester credit hours of *free electives*.

Interdisciplinary Problem Area

Candidates for the degree who elect an Interdisciplinary Problem Area must complete 39 semester hours for the combined major and the Interdisciplinary Problem Area.

*Thirty-nine of the total semester hours required for the degree must be at the upper-division level.

- A. 21 hours of political science, exclusive of those in the problem area, are required. The 21 hours must contain at least 6 semester hours in the subfield series numbered POL 2503 to POL 2693 and at least 9 semester hours numbered POL 3000 and above.
- B. 18 semester hours in the problem area.
- C. 31 semester hours of *free electives*.

COURSE DESCRIPTIONS

POLITICAL SCIENCE

(POL)

1013 INTRODUCTION TO AMERICAN POLITICS

(3-0) 3 hours credit.

Constitutional theory and political practice in the United States. Political behavior, parties and pressure groups, the Presidency and Congress, the judiciary, contemporary public policy issues. Fulfills the legislative requirement relative to the United States Constitution.

1023 THE POLITICS OF THE AMERICAN ECONOMY

(3-0) 3 hours credit.

The Constitution, the courts and government economic intervention. The new industrial state. Corporations, unions, and government. Consumer politics. Fiscal and monetary policy. The budget. Fulfills the legislative requirement relative to the United States Constitution.

1033 AMERICAN STATE POLITICS

(3-0) 3 hours credit.

A comparative examination of state constitutions, governmental structures, and politics, with special emphasis on Texas. Fulfills the legislative requirement relative to the Texas Constitution.

1043 INTRODUCTION TO TEXAS POLITICS

(3-0) 3 hours credit.

Constitutional theory and political practice in Texas. Constitutional development, the Governor and the Legislature, the judiciary, parties, pressure groups, county, city, and town government. Fulfills the legislative requirement relative to the Texas Constitution.

2013 THE POLITICAL SYSTEMS OF THE UNITED STATES AND MEXICO

(3-0) 3 hours credit.

A comparative examination of the constitutional frameworks, political institutions, and political practice of the United States and Mexico. The two revolutions, the role of the constitution, the power of the executive, PRI, Republicans and Democrats, the question of political opposition, federal-state relations, the politics of economic development, etc. Fulfills the legislative requirement relative to the United States Constitution.

- 2023 CIVIL LIBERTIES IN AMERICAN LAW AND PRACTICE**
(3-0) 3 hours credit.
An examination of the Bill of Rights and its contemporary application in the United States. The theory and history of civil liberties in America. Freedom of expression; privacy; religious freedom; legal due process; etc. Fulfills the legislative requirement relative to the United States Constitution.
- 2033 THE ORIGINS OF THE AMERICAN CONSTITUTIONAL SYSTEM**
(3-0) 3 hours credit.
The political theory of the Declaration of Independence and the Constitution. The Constitutional Convention. The debate over ratification. The economic theory of the Constitution. Fulfills the legislative requirement relative to the United States Constitution.
- 2043 CONTEMPORARY PUBLIC POLICY IN TEXAS**
(3-0) 3 hours credit.
The relationship between the constitutional and legal framework and contemporary policy issues. The power of the state executive office, executive-legislative relations, environmental and energy policy, state-local relations, etc. Fulfills the legislative requirement relative to the Texas Constitution.
- 2053 FEDERALISM IN THE UNITED STATES AND MEXICO**
(3-0) 3 hours credit.
A comparative course on federal-state relations. Special emphasis will be placed upon Texas and its relationship to the American national government, as compared to state-center relationships in Mexico. Both constitutional stipulations and contemporary practice will be considered. Fulfills the legislative requirement relative to the Texas State Constitution.
- 2503 INTRODUCTION TO POLITICAL THEORY**
(3-0) 3 hours credit.
The fundamental concepts and problems of politics, as viewed by the classical political philosophers and contemporary theorists: justice, power, authority, obligation, freedom, equality.
- 2603 INTERNATIONAL POLITICS**
(3-0) 3 hours credit.
The theory and practice of international relationships. The character of the contemporary international system will be analyzed from several theoretical perspectives and in the light of recent diplomatic history.
- 2623 LAW AND SOCIETY**
(3-0) 3 hours credit.
The role of law in society. The idea of natural law. Constitutional, statutory, and administrative law. The judiciary. The police and the penal system. The legal profession. While the approach of the course will be comparative, special emphasis will be placed on law in the United States. Fulfills the legislative requirement relative to the United States Constitution.

2633 COMPARATIVE POLITICS

(3-0) 3 hours credit.

A comparative examination of the diverse forms, goals, styles, and practices of government in Western, Communist, and developing societies. Several major polities will be studied in detail.

3103 POLITICAL IDEOLOGY

(3-0) 3 hours credit.

An examination of ideology as a social phenomenon affecting political behavior, and of the specific doctrines of liberalism, socialism, conservatism, fascism, and communism.

3113 AMERICAN POLITICAL THEORY

(3-0) 3 hours credit. Prerequisite: POL 2503 or consent of instructor.

The political theory of the Constitution; the Federalist Papers; Adams; Jefferson; Paine; Calhoun; Thoreau; Social Darwinism; Pragmatism; twentieth century political thought.

3123 POLITICAL PHILOSOPHY: THE WESTERN TRADITION

(3-0) 3 hours credit.

An intensive, historical examination of some of the great works of Western political philosophy: Plato, Aristotle, Thucydides, Machiavelli, Hobbes, Locke, Hegel.

3293 ETHNIC POLITICS IN THE SOUTHWEST

(3-0) 3 hours credit.

The role of Mexican-American, Indian, and Black minorities in the politics of the Southwest; responsiveness of existing political structures for ethnic problems; ethnic political organizations and influence.

3303 EXECUTIVE-LEGISLATIVE RELATIONS IN THE UNITED STATES

(3-0) 3 hours credit.

The constitutional framework and historical development of presidential and congressional powers. Legislation. Foreign policy and war-making power. Executive privilege. Impoundment. Impeachment. Fulfills the legislative requirement relative to the United States Constitution.

3313 INTERGOVERNMENTAL RELATIONS IN THE AMERICAN FEDERAL SYSTEM

(3-0) 3 hours credit. Prerequisite: POL 1033 or consent of instructor.

The political theory of Federalism; the constitutional provisions; interstate coordination of policies; state-federal relations. Special emphasis on Texas. Fulfills the legislative requirement relative to the Texas Constitution.

3323 CONSTITUTIONAL LAW

(3-0) 3 hours credit. Prerequisite: POL 2623 or consent of instructor.

An examination of major constitutional issues, past and present, through the intensive study of leading cases. Recommended for

pre-law students. Fulfills the legislative requirement relative to the United States Constitution.

3343 POLITICAL PARTICIPATION AND SOCIALIZATION

(3-0) 3 hours credit.

The theory and practice of political participation and political learning in industrial societies, with special emphasis on the United States. The sources of support for and opposition to government; orthodox and alienated forms of participation; acquisition of political values.

3353 POLITICAL LEADERSHIP AND ELITES

(3-0) 3 hours credit.

A survey of the major theoretical and empirical approaches to the study of political elites and leadership. Emphasis on the United States. Sociological, psychological, and historical perspectives will be examined along with those in political science.

3363 POLITICAL PARTIES

(3-0) 3 hours credit. Prerequisite: POL 2503 or consent of instructor.

The American political party system will be analyzed and compared with those of Great Britain and other democracies as well as with single-party systems in the Communist states and the Third World.

3373 THE LEGISLATIVE PROCESS

(3-0) 3 hours credit.

A comparative examination of legislatures in the United States and other industrial societies, their functions, structures, and future prospects.

3383 COMPARATIVE COMMUNIST POLITICS

(3-0) 3 hours credit.

A comparative examination of government and politics in the Soviet Union, China, Cuba, Yugoslavia, and other Communist societies. Ideology. The cultural and economic setting of ideology. The international relations of Communist states.

3393 LATIN AMERICAN POLITICS

(3-0) 3 hours credit.

An examination of political institutions and their relationship to social and economic change in Latin America. The military in politics. Revolutionary movements. The economic setting.

3403 EUROPEAN POLITICS

(3-0) 3 hours credit.

The interplay of politics with the changing social and economic environment in the advanced industrial societies of Europe. Western and Eastern Europe will be treated comparatively. The Common Market in selected individual countries will be examined.

3413 THE POLITICS OF URBANIZING SOCIETIES

(3-0) 3 hours credit.

A comparative examination of Western and non-Western urban governments; politics, capacity of urban governments to respond

to urban issues and problems, interest groups. Topics to be examined include housing, transportation, and urban planning; crime and urban violence; political participation; the politics of finance and intergovernmental relations.

3423 SOCIAL CONFLICT IN THE THIRD WORLD: CLASSES, MINORITIES, AND TRADITIONAL STRUCTURES

(3-0) 3 hours credit.

A consideration of conflict situations which may arise in a developing society including conflicts between traditional and modern structures, the development of class conflicts, and the problems of minority populations.

3433 LEADERSHIP AND MODERNIZATION IN THE THIRD WORLD

(3-0) 3 hours credit. Prerequisite: POL 2503; POL 3353 recommended.

An examination of political elites and leadership in the modernization process. Topics examined will include charisma, military rule, nationalist and revolutionary leadership, and bureaucracy in Asia, Africa, and Latin America.

3503 AMERICAN FOREIGN POLICY SINCE WORLD WAR II

(3-0) 3 hours credit.

A critical examination of the principles and practices of American foreign policy as it has developed since World War II.

3513 INTERNATIONAL ORGANIZATIONS

(3-0) 3 hours credit.

An examination of the leading international and regional political and economic organizations, their purposes and operations, including the United Nations, the Common Market, NATO, the Warsaw Pact, the Organization of American States.

4553 HONORS SEMINAR

(3-0) 3 hours credit. Prerequisite: Enrollment limited to candidates for honors in Political Science during their last two semesters.

4563 HONORS THESIS

(3-0) 3 hours credit. Prerequisite: Enrollment limited to candidates for honors in Political Science during their last two semesters. To be taken concurrently with POL 4553.

BACHELOR OF ARTS DEGREE IN SOCIOLOGY

Sociologists investigate the organization of societies, communities and smaller groups, how they originate and how they function. The relationship of the individual to these social units, and the way in which both change, also fall within the field's purview. The social system and its internal structure lie at the heart of sociological inquiry, and from these derive specialized research in such areas as urbanization, race relations, demography, child-rearing, criminology and social psychology. Research studies may be numerical or qualitative and descriptive; both research traditions are strong in sociology.

The minimum number of semester hours required for this degree, including the 50 hours of General Education Requirements, is 120.*

All candidates for the degree must complete:

- A. 30 semester hours in the *major*, 21 of which must be at the upper-division level.

Required courses are: SOC 1013; two of the subfield courses numbered SOC 2013 through SOC 2053; SSC 4513.

The remaining courses will be chosen from among the offerings in sociology and those of other disciplines designated eligible for the sociology major. A maximum of six semester hours may be applied to the major from: SOC 3043; ECO 4293; MAT 3013; MGT 3023; MGT 3103; POL 3293.

- B. The student may select 40 semester credit hours of *free electives*.

Interdisciplinary Problem Area

Candidates for the degree who elect an Interdisciplinary Problem Area must complete 39 semester hours for the combined major and the Interdisciplinary Problem Area.

*Thirty-nine of the total semester hours required for the degree must be at the upper-division level.

- A. 21 hours of sociology and extradisciplinary courses, exclusive of courses in the problem area, are required. The 21 hours must include SOC 1013; at least two courses from the subfield series, SOC 2013 through 2053; and at least two courses numbered 3000 and above.
- B. 18 semester hours in the problem area.
- C. 31 semester hours of *free electives*.

COURSE DESCRIPTIONS

SOCIOLOGY

(SOC)

1013 SOCIAL STRUCTURE

(3-0) 3 hours credit.

Concepts and variables used for analyzing the structure of human groups, the relationships of individuals to those groups, modalities of interaction and processes of social change.

2013 SOCIALIZATION AND THE FAMILY

(3-0) 3 hours credit. Prerequisite: SOC 1013 recommended.

Patterns, variants and consequences of the family developmental cycle: mate selection, marital adjustment, parent-child relations, patterns of socialization.

2023 URBAN SOCIOLOGY

(3-0) 3 hours credit. Prerequisite: SOC 1013 recommended.

Development of modern world cities, the ecology of cities, the organization of cities, major social problems, the social psychology of urban life.

2043 THEORIES OF SOCIAL CHANGE

(3-0) 3 hours credit. Prerequisite: SOC 1013.

Principal models and theories of social transformation applied to examples of societal change.

2053 POPULATION DYNAMICS

(3-0) 3 hours credit. Prerequisite: SOC 1013.

The demographic analysis of world population trends and their projected consequences. Trends in selected countries are considered, together with associated population policies and options.

2503 RACE AND ETHNIC RELATIONS

(3-0) 3 hours credit. Prerequisite: SOC 1013 recommended.

Dominant-subordinant relations in world societies, with major emphasis on the United States. Models of plural and class society, and uses and consequences of power are examined.

3013 SOCIAL STRATIFICATION

(3-0) 3 hours credit. Prerequisite: SOC 1013.

The social structure of industrial society and the dynamics of class and mobility. Major emphasis on the class structure of the United States.

- 3053 DEVIANCE AND CONFORMITY**
(3-0) 3 hours credit. Prerequisite: SOC 1013 recommended.
Consideration of sociological and social psychological factors associated with compliant and deviant behavior; the links between deviance and strategies for social control.
- 3063 SOCIAL MOVEMENTS**
(3-0) 3 hours credit. Prerequisite: SOC 1013; SOC 2503 recommended.
Case studies and associated theory dealing with various forms of collective behavior and social movements, including mobs, revolutions, cults and panics.
- 3073 MIGRATION AND ADJUSTMENT**
(3-0) 3 hours credit. Prerequisite: SOC 1013 recommended.
Geographic movement of populations and ties to economic, physical, ideological and social factors and resultant problems of adjustment. Special attention given to the movement of Latin Americans into the United States.
- 3093 RELIGIOUS BEHAVIOR**
(3-0) 3 hours credit. Prerequisite: SOC 1013 recommended.
Religious institutions and movements in the United States with comparative data from other countries. The relationship of religious behavior to social stratification, economic factors, political and social change.
- 3103 CORPORATE STRUCTURES**
(3-0) 3 hours credit. Prerequisite: SOC 1013.
The sociology of public and private bureaucratic organizations, the structure and behavior of management patterns of mobility within corporate organizations.
- 3133 SOCIOLOGY OF PLURALISM IN THE SOUTHWEST**
(3-0) 3 hours credit. Prerequisite: SOC 1013 or consent of instructor.
The principal minority groups in the American Southwest, with emphasis on form and consequences of intergroup relations, social movements, and related social changes, and formal models of Southwestern plural society.
- 3143 JUVENILE DELINQUENCY**
(3-0) 3 hours credit. Prerequisite: SOC 1013 recommended.
Analysis of the extent, distribution and varieties of juvenile crime, with a survey of classic and contemporary sociological research on its causes, prediction and prevention.
- 4553 HONORS SEMINAR**
(3-0) 3 hours credit. Prerequisite: Enrollment limited to candidates for honors in Sociology during their last two semesters.
- 4563 HONORS THESIS**
(3-0) 3 hours credit. Prerequisite: Enrollment limited to candidates for honors in Sociology during their last two semesters.
To be taken concurrently with SOC 4553.

COURSE DESCRIPTIONS

PSYCHOLOGY

(PSY)

2013 FUNDAMENTALS OF PSYCHOLOGY

(3-0) 3 hours credit.

Introduction to the study of the mind and behavior with attention to awareness, discrimination, sensation, perception, emotion, motivation, learning, memory and problem-solving in animals and human beings.

2503 DEVELOPMENTAL PSYCHOLOGY

(3-0) 3 hours credit. Prerequisite: PSY 2013.

Problems, methods and results in the study of the psychological development of the individual from birth to old age.

2513 ABNORMAL PSYCHOLOGY

(3-0) 3 hours credit. Prerequisite: PSY 2013.

Dynamics of abnormal behavior, with attention to neurotic personality, neurotic symptom formation and psychosomatic disorders. Further topics include the effects of brain injuries and the major psychoses.

2523 PERSONALITY

(3-0) 3 hours credit. Prerequisite: PSY 2013.

Development and maintenance of typical modes of behavior and dynamics of adjustment as conceptualized by the principal theorists.

2533 SOCIAL PSYCHOLOGY

(3-0) 3 hours credit. Prerequisite: SOC 1013 or PSY 2013.

The impact of interaction and communication on personality development and interpersonal influence: self-identity, values and attitudes, role behavior, and social perception.

2543 THEORIES OF LEARNING

(3-0) 3 hours credit. Prerequisite: PSY 2013.

Alternative theories of the acquisition, elimination and maintenance of behavior and the effects of previous experience on responses to new situations.

3013 PSYCHOLOGICAL MEASUREMENT

(3-0) 3 hours credit. Prerequisites: PSY 2013 and MAT 2013.

The application of quantitative and qualitative measures to psychological data, interpretational strategies, and assessments of validity and reliability.

3023 THE SOCIAL PSYCHOLOGY OF SMALL GROUPS

(3-0) 3 hours credit. Prerequisite: PSY 2533.

Theory and modern research in the social psychology of diads, triads and small groups. Group dynamics, balance theory, kinetics and small groups research design are given particular attention.

3043 COMPARATIVE PSYCHOLOGY

(3-0) 3 hours credit. Prerequisite: PSY 2013.

Comparative study of the social behavior of various species of animals, including man, from a phylogenetic perspective.

3513 PSYCHOPATHOLOGY AND CHILDHOOD

(3-0) 3 hours credit. Prerequisite: PSY 2513.

Clinical and experimental research on the effects of maternal deprivation, autistic children, childhood neuroses and schizophrenia, and the psychological bases of therapeutic techniques.

3523 PSYCHOLOGICAL PROBLEMS OF THE AGED

(3-0) 3 hours credit. Prerequisite: PSY 2503.

Traditional and modern approaches to the social, institutional, neurological, and physical bases of aging.

3633 AGGRESSION

(3-0) 3 hours credit. Prerequisite: ANT 1013 or PSY 2013.

Survey of social and psychological data, findings and theory on aggression, both human and non-human. This course may be taken as ANT 3633.

COURSE DESCRIPTIONS

SOCIAL SCIENCE

(SSC)

2103 MAJOR CONCEPTS OF THE SOCIAL SCIENCES

(3-0) 3 hours credit.

A review of seminal theories in nineteenth- and twentieth-century social science, illustrated in cases of social behavior. The contributions of Marx, Keynes, Durkheim, Weber, Freud, Malinowski, Skinner, and Chomsky.

3003 SOCIAL RESEARCH METHODS

(3-0) 3 hours credit.

An interdisciplinary treatment of observational and descriptive research techniques in the social science, with attention to research design; participant-observation; interviews and survey questionnaires; validity, reliability and sampling; and coding and tabulation techniques.

4513 SOCIAL SCIENCE CONFERENCE COURSE

(3-0) 3 hours credit. Prerequisite: Enrollment limited to Social Science majors in their last two semesters.

A course designed to integrate the social sciences with the student's major discipline and explore related research findings.

College of Multidisciplinary Studies

The College of Multidisciplinary Studies is a collaborative, innovative College composed of Divisions of Bicultural-Bilingual Studies, Education, and Environmental Management. The unifying factor of its disparate Divisions is the orientation toward programs and problems to suit individual student needs and goals. Program formulation utilizes University-wide resources from the sciences, the humanities, business, and the fine arts.

DIVISION OF BICULTURAL-BILINGUAL STUDIES

The Division does not offer an undergraduate degree in Bicultural-Bilingual Studies. Support courses that may be taken as electives are given to provide students an intensive training in language (primarily Spanish and English) and in associated cultural studies. Students expected to be interested in these courses are those in bilingual teacher education at the elementary and secondary levels and those who wish to apply cultural knowledge to careers in business, international law, social work, public relations, journalism, etc.

The Division also offers courses in English as a second language designed to introduce students to the various strategies and methods of analysis of languages. Courses are designed for students who will be teaching second languages, but will also benefit students who plan to teach or to engage in other areas that rely heavily on an understanding of language. These students might include those in communication, with specialities in speech therapy, practice of law, careers in business, and those who simply wish to enlarge their understanding of the role that language plays in society.

COURSE DESCRIPTIONS BICULTURAL-BILINGUAL STUDIES (BBL)

3013 COMPARATIVE LINGUISTICS AND BILINGUALISM

(3-0) 3 hours credit.

A historical and descriptive study of Spanish and English with major emphasis on the phonological and morphological aspects of the two languages. Problems of linguistics interference as applied to the bilingual in the Southwest will be explored along with means of dealing with these problems.

3023 MEXICAN-AMERICAN CULTURE

(3-0) 3 hours credit.

A sociological perspective on the Mexican-American in family life, in social institutions, in the economic and political life of the area. Includes an analysis of changing values and urbanization.

3033 THE MEXICAN-AMERICAN IN THE SOUTHWEST

(3-0) 3 hours credit.

Historical foundations of U.S.-Mexico biculturalism in the area. Factors in the development of the area during the colonial era are studied as background for the contemporary bicultural Southwest. Mexican-American contributions to politics and economics of the area are considered, with primary emphasis on the political and economic aspects.

3043 PSYCHOLOGICAL CONSIDERATIONS IN A BICULTURAL ENVIRONMENT

(3-0) 3 hours credit.

An introduction to: stereotyping versus psychological insights as applied in research, education, mental health, the legal system and interpersonal relations; psychological implications of the concept of disadvantagedness; psychological mechanisms in first and second language acquisition; cross-cultural studies in learning styles and their relevance to the bicultural classroom.

3133 TEACHING COMMUNICATION SKILLS IN SPANISH AND ENGLISH

(3-0) 3 hours credit.

An examination of the theories of first and second language acquisition; analysis of the characteristics of the nature of language. Development of strategies for developing bilingualism and application of these strategies to a bicultural-bilingual program.

4023 FOUNDATIONS OF BICULTURAL-BILINGUAL EDUCATION

(3-0) 3 hours credit.

A thorough investigation of the philosophies, research, and theories of bicultural-bilingual education as it relates to the learning process of individual children.

4063 TEACHING CONTENT IN A BICULTURAL-BILINGUAL EDUCATION PROGRAM

(3-0) 3 hours credit.

Investigation and evaluation of curriculum and materials available in different content areas appropriate for teaching children in a bicultural-bilingual program. Directed field experiences and micro-teaching in the target languages.

COURSE DESCRIPTIONS

ENGLISH AS A SECOND LANGUAGE

(ESL)

4013 INTRODUCTION TO TEACHING ENGLISH AS A SECOND/FOREIGN LANGUAGE

(3-0) 3 hours credit. Prerequisite: LNG 3813 or consent of instructor.

A study of the various theories and methods available for the teacher of English as a Second Language.

4023 APPLICATIONS OF LINGUISTICS

(3-0) 3 hours credit. Prerequisite: A linguistics course or consent of instructor

A study of the application of linguistics to the teaching of English as a Second Language.

DIVISION OF EDUCATION

The Division of Education has a two-fold purpose: (1) to offer degree programs for students interested in investigating education as a field of study, (2) to provide the professional education component of all Teacher Certification Programs, and in conjunction with other disciplines of UT San Antonio, to prepare students for Teacher Certification.

UT San Antonio is planning to serve a confluence of cultures. Students will have continuing opportunities to observe classroom instruction of the diverse ethnic groups in the San Antonio metropolitan area. This will enable students to make realistic and effective decisions about careers and suitable teaching strategies. By embarking upon professional associations, experiences, and observations during their college careers, students will have time to consider carefully their commitments to the teaching profession. The undergraduate teacher education program will provide students an adequate background for the broad profession of teaching as well as for working in the more localized setting of South and Central Texas.

At the undergraduate level, one degree program is presently available, the Bachelor of Arts Degree in Early Childhood and Elementary Education. Students wishing to be certified as elementary teachers or kindergarten teachers will pursue this degree in the Division of Education. Students majoring in Early Childhood and Elementary Education should enroll in professional education courses throughout their four-year program. In the first semester of their freshman year they should contact the undergraduate Advisor of the Division of Education to facilitate program planning. Failure to do so may result in a longer degree program than might otherwise be required.

Students wishing to be certified as secondary school teachers in other academic areas will follow degree programs in other Divisions of UT San Antonio and will take courses for Teacher Certification in the Division of Education. (A complete list of Certification Programs is contained in a brochure available from the Office of Teacher Certification and Placement.

BACHELOR OF ARTS DEGREE IN EARLY CHILDHOOD AND ELEMENTARY EDUCATION

The minimum number of semester hours required for this degree, including the 50 hours of General Education Requirements, is 126, of which at least 60 must be at the upper-division level. All candidates for the degree must complete:

- A. Twenty-four semester hours in the *major*, at least 18 of which must be taken from one of the three groups of course listings set out below.

1) Elementary Education

- ECE 3213 Language Arts in the Elementary School
- ECE 3223 Social Science in the Elementary School
- ECE 3233 Mathematics in the Elementary School
- ECE 3303 Reading in the Primary Grades
- ECE 3313 Reading in the Intermediate Grades
- ECE 4213 Science in the Elementary School
- ECE 4203 Music and Art in the Elementary School
- ECE 4243 Foreign Languages in the Elementary School

Three hours of upper-division electives in elementary education.

2) Early Childhood Education

- ECE 3103 Young Children's Literature and Storytelling
- ECE 3113 Play and Creative Activities in Early Childhood Education
- ECE 3123 Development and Learning in Early Childhood
- ECE 3133 Programs in Early Childhood Education
- ECE 4103 Guidance of Young Children in Groups

- ECE 4113 Language Development and Reading in Early Childhood Education
- ECE 4123 Parents and Community Resources in Early Childhood and Elementary Education

3) Reading

- ECE 3323 Skill Development in the Reading Program
 - ECE 4306 Reading Problems
 - ECE 4323 Practicum in Reading
- Six hours of upper-division electives, preferably in linguistics and language or psychology.

- B. Twenty-two semester hours of course work in education, 21 of which are at the upper-division level.

Required courses are:

- EDU 2001 Introduction to the School Environment
- EDU 3003 Educational Sociology
- EDP 3013 Growth and Development and Learning Theories I
- EDP 3023 Growth and Development and Learning Theories II
- EDU 4013 Classroom Climate in the Elementary School in the Southwestern United States.
- EDU 4031 Media Technology
- EDU 4046 Student Teaching Elementary*
- EDU 4072 Individualized Clinical Experiences

- C. Thirty hours of *free electives*, fourteen of which must be at the upper-division level. These may be taken from any Division of The University and for students seeking certificates can be used to satisfy a second teaching field.

*EDU 4043 and 4063 may substitute for 4046.

COURSE DESCRIPTIONS

EARLY CHILDHOOD AND ELEMENTARY EDUCATION

(ECE)

3103 YOUNG CHILDREN'S LITERATURE AND STORYTELLING

(3-0) 3 hours credit.

A review of books, stories, and library materials including audio-visual materials and aids for young children. Students become acquainted with books for the very young, their authors and illustrators. Criteria for selection and methods of presentation are stressed. Practice is given in reading and telling stories to children.

3113 PLAY AND CREATIVE ACTIVITIES IN EARLY CHILDHOOD EDUCATION

(2-1) 3 hours credit.

A multi-arts integrated approach to fostering creative expression in young children through experiences in art, music, movement, dramatics, and play. Students develop materials, plan activities, and share ideas and skills.

3123 DEVELOPMENT AND LEARNING IN EARLY CHILDHOOD (3-0) 3 hours credit. Prerequisites: EDP 3013 and EDP 3023 or consent of instructor.

Growth and development during infancy and early childhood. Reviews and integrates physical, social, emotional, and cognitive development. Includes motivation and early learning. Emphasizes individual differences, developmental assessment, need to optimize the match between developmental sequences and experience. Practice in observing and recording behavior.

3133 PROGRAMS IN EARLY CHILDHOOD EDUCATION

(3-0) 3 hours credit.

Review of historical, philosophical, and psychological foundations of nursery-kindergarten methods. Current trends and program models for day care, nursery school and kindergarten. Observations to be arranged.

3203 EVALUATION AS FEEDBACK AND GUIDE IN ELEMEN- TARY EDUCATION

(3-0) 3 hours credit. Prerequisites: EDP 3013 and EDP 3023 or consent of instructor.

A study of activities and developmental skills needed to carry out evaluation of different segments of life of the individual student.

3213 LANGUAGE ARTS IN THE ELEMENTARY SCHOOL

(3-0) 3 hours credit. Prerequisites: EDP 3013 and EDP 3023 or consent of instructor.

A systematic study of teaching and learning activities in reading, spelling, composition, listening, and handwriting in the elementary school.

3223 SOCIAL SCIENCE IN THE ELEMENTARY SCHOOL

(3-0) 3 hours credit. Prerequisites: EDP 3013 and EDP 3023 or

- consent of instructor.
An overview of the purposes, selection, and organization of content, teaching, and learning procedures, and evaluation of outcomes in the elementary school social science program.
- 3233 MATHEMATICS IN THE ELEMENTARY SCHOOL**
(3-0) 3 hours credit. Prerequisites: EDP 3013 and EDP 3023 or consent of instructor.
An overview of the purposes, selection, and organization of content, teaching, and learning procedures, and evaluation of outcomes in the elementary school mathematics program.
- 3303 READING IN THE PRIMARY GRADES**
(3-0) 3 hours credit. Prerequisites: EDP 3013 and EDP 3023 or consent of instructor.
Introduction to the basic principles of reading instruction, including readiness for reading, initial stages of reading development with emphasis on primary programs, individual differences among students. Observation of and participation in alternate methods and organizational patterns in a school setting.
- 3313 READING IN THE INTERMEDIATE GRADES**
(3-0) 3 hours credit. Prerequisites: EDP 3013 and EDP 3023 or consent of instructor.
Basic principles of reading instruction for grades 4, 5, and 6, including transfer of reading skills to content area reading, development of comprehension, word recognition, vocabulary, and rate. Observation of and participation in alternate methods and organizational patterns in a school setting.
- 3323 SKILL DEVELOPMENT IN THE READING PROGRAM**
(3-0) 3 hours credit. Prerequisites: EDP 3013 and EDP 3023 or consent of instructor.
Skill development in the perceptual and conceptual areas. Relationships between skill development, child development, and curriculum development. The skills in reading growth are viewed as developmental and interrelated.
- 4103 GUIDANCE OF YOUNG CHILDREN IN GROUPS**
(3-0) 3 hours credit. Prerequisite: ECE 3123 or consent of instructor.
A study of basic teaching skills; play as education, curriculum areas, program planning, and necessities of space, equipment, and supplies. It includes designing and evaluating activities to optimize learning and development. Participant-observation is an integral part of the course.
- 4113 LANGUAGE DEVELOPMENT AND READING IN EARLY CHILDHOOD EDUCATION**
(3-0) 3 hours credit. Prerequisites: EDP 3013 and EDP 3023 or consent of instructor.
Introduction to theories of language acquisition and development. Facilitating communication skills in young children and planning for the precocious reader. Relates principles of language learning to concepts of learning to read.

- 4123 PARENTS AND COMMUNITY RESOURCES IN EARLY CHILDHOOD AND ELEMENTARY EDUCATION**
(3-0) 3 hours credit. Prerequisite: EDU 3003 or consent of instructor.
Increasing parental effectiveness through involvement and parent education; planning parent workshops, group meetings, parent-teacher conferences, and supportive programs. Students learn the techniques of interviewing and surveying children and family services and resources within the community.
- 4203 MUSIC AND ART IN THE ELEMENTARY SCHOOL**
(3-0) 3 hours credit. Prerequisites: EDP 3013 and EDP 3023 or consent of instructor.
An overview of the purposes, selection, and organization of content, teaching, and learning procedures, and evaluation of outcomes in elementary school music and art programs.
- 4213 SCIENCE IN THE ELEMENTARY SCHOOL**
(3-0) 3 hours credit. Prerequisites: EDP 3013 and EDP 3023 or consent of instructor.
An overview of the purposes, selection, and organization of content, teaching, and learning procedures, and evaluation of outcomes in the elementary school science program.
- 4243 FOREIGN LANGUAGES IN THE ELEMENTARY SCHOOL**
(3-0) 3 hours credit.
A review of past practices and present trends in foreign language teaching in the elementary school. Examination of the relation of the child's developmental levels, adult attitudes, and pressure group influences to foreign language teaching and learning.
- 4306 INTRODUCTION TO READING PROBLEMS**
(3-3) 6 hours credit. Prerequisite: 6 semester hours of reading courses.
An intensive study of and laboratory experience in reading problems in the classroom, including causation. Diagnostic procedures and remedial measures in reading disability are developed.
- 4323 PRACTICUM IN READING**
(0-3) 3 hours credit. Prerequisite: 15 semester hours of reading courses.
Application of diagnostic and remedial procedures in a group situation. Guided clinical experiences with weekly seminars designed to enrich the laboratory experience.

COURSE DESCRIPTIONS

EDUCATION

(EDU)

- 2001 INTRODUCTION TO THE SCHOOL ENVIRONMENT**
(1-0) 1 hour credit.

Field observation of the life space of learners with campus-based discussions relating observations to implications for curricular content, behavioral expectations of value orientation and individual societal needs.

3003 EDUCATIONAL SOCIOLOGY

(3-0) 3 hours credit.

A study of the ways in which the school can effectively utilize the social process in developing and educating the individual and to show the interrelationships of the school with the family, the church, and other societal agencies particularly in the social and cultural setting of the Southwestern United States.

4013 CLASSROOM CLIMATE IN THE ELEMENTARY SCHOOL IN THE SOUTHWESTERN UNITED STATES

(3-0) 3 hours credit. Prerequisites: EDP 3013 and EDP 3023.

The study of and practice in identifying and developing curricular materials, planning for instruction, developing effective elementary classroom climate, and evaluating instructional outcomes particularly in the context of the Southwestern United States; the methodology of instruction as related to specific disciplines. (This course is offered in multiple sections according to the subject matter to be taught.)

4031 MEDIA TECHNOLOGY

(0-1) 1 hour credit.

Laboratory experience with the use of audio-visual equipment and materials in teaching.

4043 STUDENT TEACHING: ELEMENTARY

4046 (0-3 or 6) 3 or 6 hours credit. Prerequisites: EDP 3013 and EDP 3023.

Field-based experiences in the elementary school.

4053 STUDENT TEACHING: SECONDARY

4056 (0-3 or 6) 3 or 6 hours credit. Prerequisites: EDP 3013 and EDP 3023.

Field-based experiences in the secondary school.

4063 STUDENT TEACHING: KINDERGARTEN

(0-3) 3 hours credit. Prerequisites: EDP 3013 and EDP 3023.

Field-based experiences at the kindergarten level.

4072 INDIVIDUALIZED CLINICAL EXPERIENCES

(0-2) 2 hours credit. Prerequisite: EDU 4046 or EDU 4043, plus EDU 4053 or the equivalent.

A series of simulated and direct experiences planned to develop and improve competency components which have been identified as needs of the individual students. The experiences are designed to provide opportunities for students to further investigate and apply strategies related to teaching/learning situations or to apply corrective measures to diagnosed areas of weaknesses.

4083 STUDENT TEACHING: SPECIAL EDUCATION

4086 (0-3 or 6) 3 or 6 hours credit. Prerequisites: EDP 3013 and EDP 3023.

Field-based experiences in a special education classroom.

4093 CLASSROOM CLIMATE IN THE SECONDARY SCHOOL IN THE SOUTHWESTERN UNITED STATES

(3-0) 3 hours credit. Prerequisites: EDP 3013 and EDP 3023.

The study of and practice in identifying and developing curricular materials, planning for instruction, developing effective secondary classroom climate, and evaluating instructional outcomes particularly in the context of the Southwestern United States; the methodology of instruction as related to specific disciplines. (This course is offered in multiple sections according to the subject matter to be taught.)

COURSE DESCRIPTIONS

EDUCATIONAL PSYCHOLOGY

(EDP)

3013 GROWTH AND DEVELOPMENT AND LEARNING THEORIES I

(3-0) 3 hours credit.

An introduction to the area of study, which includes analysis of the theoretical basis of learning, the assessment of learning and learner needs, and the measurement of achievement.

3023 GROWTH AND DEVELOPMENT AND LEARNING THEORIES II

(3-0) 3 hours credit. Prerequisite: EDP 3013.

A study of developmental psychology: human motivation and behavior, the relationships between development and learning, and the special nature of "exceptional" children and youth as learners.

3603 INTRODUCTION TO EXCEPTIONAL CHILDREN

(3-0) 3 hours credit.

The nature of individual differences. Special emphasis upon school problems of mentally subnormal and gifted children, children with learning disabilities, blind, deaf and hard of hearing, and other special types of atypical children.

3613 CHARACTERISTICS OF THE CHILD WITH LEARNING DISABILITIES

(3-0) 3 hours credit.

A study of the incidence, classification, etiology and characteristics of the child with learning disabilities. Special emphasis will be given to diagnosis and to the circumstances governing referrals.

3623 DEVELOPMENTAL ASSESSMENT OF EXCEPTIONAL CHILDREN

(3-0) 3 hours credit.

The application of standardized and informal classroom evaluation techniques to learning problems.

3633 BEHAVIOR MANAGEMENT IN THE CLASSROOM

(3-0) 3 hours credit.

A study of the principles of behavior modification and its theoretical basis.

4603 COUNSELING WITH PARENTS OF EXCEPTIONAL CHILDREN

(3-0) 3 hours credit.

A study of counseling theory to help parents understand the nature of handicapping conditions, educational prescriptions and progress.

4613 THE PSYCHOLOGY OF ADJUSTMENT

(3-0) 3 hours credit.

A study of the nature of conflict and the mechanism of adjustment.

4623 CURRICULUM FOR THE MENTALLY RETARDED CHILD

(3-0) 3 hours credit.

Curricular plans designed to facilitate development of mentally retarded children.

4633 PRACTICUM IN MENTAL RETARDATION

(2-1) 3 hours credit. Prerequisite: EDP 4623.

An orientation to school settings designed for handicapped students; participants will study and evaluate existing strategies for the handicapped in area school settings.

COURSE DESCRIPTIONS

LIBRARY INSTRUCTION

(LIB)

1001 LIBRARY INSTRUCTION

(0-1) 1 hour credit.

Orientation to the nature and location of library materials and services at UT San Antonio. Instruction and experience in using the UT San Antonio catalogs, microform and other audio-visual equipment and indexes. Instruction and practice in library search strategy and compilation of a bibliography.

DIVISION OF ENVIRONMENTAL STUDIES

The Division of Environmental Studies does not offer an undergraduate degree. In order to prepare students in different fields for future graduate work in Environmental Management and to serve the general student body, courses in the Division of Environmental Studies are offered as electives.

COURSE DESCRIPTIONS

ENVIRONMENTAL MANAGEMENT (ENV)

2013 INTRODUCTION TO ENVIRONMENTAL SYSTEMS

(3-0) 3 hours credit.

Empirical and analytical studies of spatial dimensions of regional development with emphasis on social, political, economic, demographical and environmental problems at regional level. This course may also be taken as GRG 2013.

3013 ENVIRONMENT AND HUMAN RESOURCES MANAGEMENT

(3-0) 3 hours credit.

Human resources as related to the total environment are studied. Special emphasis is given to the areas of manpower planning, and programming as related to the technological changes and the wise use of time in the community.

3023 MAN AND HIS NATURAL RESOURCES

(3-0) 3 hours credit.

A critical evaluation of man's dependency upon the major natural resources of the world such as water, air, soils, forests, grasslands, wildlife and minerals. Programs will be discussed to facilitate the utilization of natural resources for optimum benefit.

3033 ELEMENTS OF URBAN SYSTEMS MANAGEMENT

(3-0) 3 hours credit.

A focus on the role of man as a modifier of the environment. The impact of urban, rural and industrial developments are specifically considered. The basic principles governing urban planning, urban development, urban systems analysis, and rural-urban transition process will be covered.

3523 THE CONTEMPORARY CITY

(3-0) 3 hours credit. Prerequisite: ENV 2013

An introduction to the city as an extension of man with a review of the urban revolution and its impact on the contemporary United States. General trends in contemporary thought as they apply to the problems and promises of American urban development.

4023 ENVIRONMENT, ENERGY AND SOCIETY

(3-0) 3 hours credit. Prerequisite: ENV 3023 or the equivalent.

Study of energy requirements for various components of the soci-

ety and the wastage associated with modern living. Characteristics of various energy sources and conversion process. Energy resources management considerations related to environmental quality and societal needs.

4103 THE GOVERNMENT AND ENVIRONMENTAL PROTECTION

(3-0) 3 hours credit. Prerequisite: ENV 3023 or the equivalent.

A survey of current federal action directed at improving environmental quality. Evolution and effectiveness of the Natural Environmental Policy Act and its implications for the future of our society and various industries.

4203 ENVIRONMENTAL IMPACT ANALYSIS

(3-0) 3 hours credit.

A course designed to familiarize students with the content of the National Environmental Policy Act and the procedures for doing environmental impact statements. Guidelines for specific projects will be considered. Students will collect data for and write an environmental impact statement. Environmental impact statement review procedures will be studied.

4503 ALTERNATIVE URBAN FUTURES

(3-0) 3 hours credit. Prerequisite: ENV 2013.

An examination and exploration of alternatives for the future in the urban environment considering the relationships between social, economic and human dimensions.

4513 PROBLEMS OF URBAN CHANGE

(3-0) 3 hours credit. Prerequisite: ENV 2013.

This course examines problems presented by growth and change in the urban environment. Students determine primary foci of interests and possibilities for field involvement.

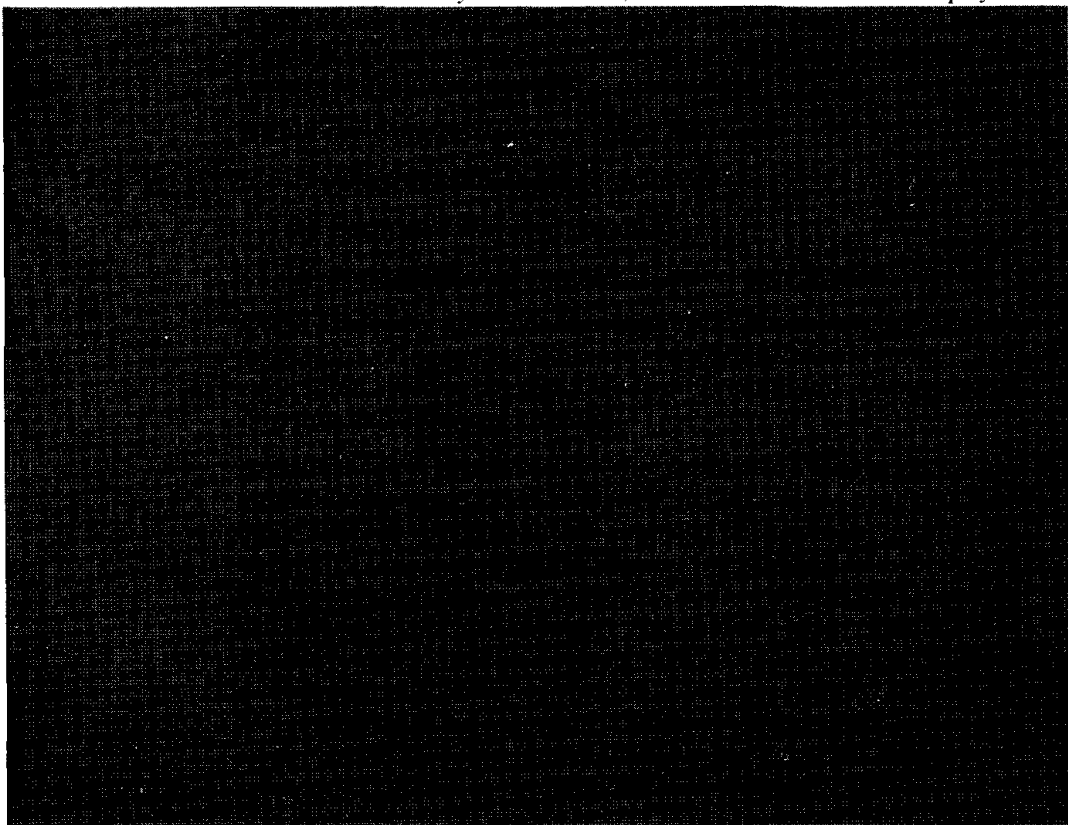
4604 ENVIRONMENTAL QUALITY ANALYSIS AND MONITORING

(3-3) 3 hours credit. Prerequisite: ENV 3023.

The procedures and instrumentation for the analysis of air, water, and solids. Environmental data acquisition and basic analysis for the interpretation and characterization of environmental quality.

College of Sciences and Mathematics

It is the intent of the College of Sciences and Mathematics to offer degree programs providing education in the theoretical foundations of each discipline while stressing applied aspects. This duality in purpose reflects the creative tension which exists between inwardly directed and applied science. It also attempts to speak to the needs of the community in which The University is located. Thus, the College has a strong technical and career thrust preparing students as mathematics and science teachers, medical laboratory technicians, industrial chemists and physi-



DIVISION OF ALLIED HEALTH AND LIFE SCIENCES

The Division offers numerous degree options so that a highly individualized program may be developed around the interests of the student. The Biology major proceeds from a comprehensive core curriculum and related offerings in chemistry, physics and mathematics into more highly specialized areas of the life sciences, such as physiology, genetics, microbiology, biochemistry, environmental biology and molecular biology. A major in Biology prepares the student for laboratory positions in industry and government and fulfills requirements for entrance into graduate school, medical school, dental school, veterinary school and schools of allied health. Work-study positions are available, and special attention is given to students transferring into the program from area two-year colleges at the beginning of the junior year. A special program for majors also is being planned in cooperation with other Divisions in which students can develop considerable practical laboratory skills by the beginning of the junior year.

General Education Courses

The following courses are especially designed to satisfy The University's General Education Requirements: BIO 1012, 1021, 1033, 1041, 1052, 1061, 2043, 2053, 3042, 3051, 4073, 4083.

A number of course sequences may be designed from these listings and those from other Divisions:

- 1) BIO 1012 Life and Living Systems
BIO 2053 Man and His Environment
BIO 4073 Law, Ethics and the Life Sciences
- 2) BIO 1012 Life and Living Systems
or
BIO 1103 Principles of Biology (see below)
BIO 1033, 1041 Human Biology, Anatomy and Physiology
BIO 1052, 1061 Introductory Microbiology
- 3) BIO 1012 Life and Living Systems
BIO 4073 Law, Ethics and the Life Sciences
BIO 4083 Heredity, Evolution, Race and Society

- 4) **BIO 1012 Life and Living Systems**
CHE 1103 Introductory Chemistry
BIO 2053 Man and His Environment

In addition, the following courses designed for majors may be used to fulfill the General Education Requirements: BIO 1103, 1111, 1213, 2313. Other courses in the life science curriculum are also suitable, provided the student has the required prerequisites to elect them. This sequence is recommended for students who are undecided about a major in Life Sciences. If a major is later declared, all of these courses apply to the major and the student then would elect the two laboratories (BIO 1221 and BIO 2321) that accompany Principles of Environmental Biology (BIO 1213) and Genetics (BIO 2313).

BACHELOR OF SCIENCE DEGREE IN BIOLOGY

Entering freshmen intending to major in Biology are required to take the College Board Achievement Test in Biology for placement in Principles of Biology (BIO 1103). Students with a limited knowledge of biology are expected to enroll in Life and Living Systems (BIO 1012) to provide additional background in the life sciences, prior to taking Principles of Biology (BIO 1103).

The minimum number of semester hours required for the Bachelor of Science Degree in Biology, including the 50 hours of General Education Requirements, is 126.*

The major in Biology consists of 40 semester hours of Biology course work, 20 of which are in the Biology Core Curriculum (BIO 1103, 1111, 1213, 1221, 2313, 2321, 3413, 3421, 3513, 3521). It is expected that the student, in consultation with his Advisor, will concentrate on one of the many special areas of modern biology.

The following courses from other Divisions of the College are *prerequisites for the Biology major*:

- 1) Chemistry: CHE 1103 Introductory Chemistry
CHE 1203 Principles of Chemistry
CHE 1212 Analytical Chemistry I
CHE 2212 Analytical Chemistry II
CHE 2203 Organic Chemistry I (one semester)

An additional semester of organic chemistry is strongly recommended, as is physical chemistry for students interested in biochemistry and molecular aspects of biology.

- 2) Six hours of mathematics are required, including at least one semester of calculus or statistics. One of the following mathematics options is recommended:

- (a) Biostatistics: MAT 1062 Statistics
MAT 2013 Statistical Methods in Life and Social Sciences I

*Thirty-nine of the total semester hours required for the degree must be at the upper-division level.

From one to three hours of mathematics prerequisites are required for these courses according to the background of the student (MAT 1011, 1031, 1051).

- (b) Biomathematics: MAT 1213, 1223 Calculus I and II
MAT 1011 Algebra and MAT 1092
Trigonometry are prerequisites

- (c) Statistics and Computer Science:
MAT 1062 Statistics
and one of the following:
MAT 1073 Introductory Computer
Programming for Numerical Applications *or*
MAT 1713 Introduction to Computer Science
MAT 1011 Algebra and MAT 1051
Probability and Finite Math are prerequisites

- 3) PHY 1803, 1811 Physics for Life Science I and PHY
1823, 1831 Physics for Life Science II

Biology electives. At least 8 hours of the 20 hours of electives in biology must be at the upper-division level. Electives may be selected (in consultation with the student's Advisor) from any of the biology courses offered other than those for non-majors.

The remaining hours to complete the 126 semester hours required for the degree are free electives which the student may select from throughout The University.

PREPROFESSIONAL COURSES OF STUDY IN THE HEALTH FIELDS

The University of Texas at San Antonio does not offer specific premedical, predental, or prenursing degree programs; rather preprofessional courses of study to prepare students for admission to medical, dental, and nursing school are available. Admission requirements for those professional schools are outlined in Appendix B. Additional information can be obtained from the Office of the Division of Allied Health and Life Sciences and through the Chairman of the Health Related Professions Advisory Committee of UT San Antonio.

ALLIED HEALTH PROGRAMS

A very wide variety of careers exist today in the allied health field ranging from those calling for direct contact with the patient in rehabilitation and therapy programs to the performance of detailed analytical techniques in the clinical laboratory. All hold the satisfaction of contributing to the well-being of others. Because of the diversity of careers in this area, a wide spectrum of skills and talent can be accommodated, necessitating careful planning and counseling to insure that each student selects the program best suited to individual needs.

The University is planning a full program of training in the Allied Health area in cooperation with area health institutions and The University of Texas Health Science Center.

BACHELOR OF SCIENCE DEGREE IN MEDICAL TECHNOLOGY

The medical technologist is an important member of an increasingly complex and interrelated health team that is involved in the diagnosis and treatment of disease. The medical technologist performs laboratory tests, supervises medical technicians, and helps to develop new laboratory techniques. A thorough understanding of the basic and applied sciences is necessary in order to utilize complex equipment, perform intricate techniques, and make important judgments. The programs consist of three years of academic work and twelve months of training in an approved School of Medical Technology, and leads to the Bachelor of Science Degree in Medical Technology. The three academic years are designed to give a theoretical basis for analytical procedures, and the one-year internship provides for the specialized application of this knowledge. Basic and applied science courses are integrated with required and elected courses in the liberal arts in order to provide a well-balanced education.

Graduates are prepared for positions in hospital and private clinical laboratories, federal, state, and local health departments, research laboratories of medical schools and research institutions, and physicians' offices.

Degree Requirements

The Board of Schools of the American Medical Association and the American Society for Clinical Pathologists have stipulated that students accepted into approved Schools of Medical Technology must be eligible for a baccalaureate degree at the completion of the one-year clinical training period.

The program described here (three years—110 semester hours of academic training) provides a training program more rigorous than that required to obtain admission to Schools of Medical Technology. Competition is keen for places in the select schools.

The twelve months of training must be carried out in a school approved by the Board of the American Society for Clinical Pathologists and the Board of Schools of the American Medical Association. Close ties have been developed between The University and UT Health Science Center and area hospitals where the final clinical year of training may be carried out. The student, in consultation with his Advisor, should apply to these (or other) Schools of Medical Technology at the beginning of upper-division study.

Certification as a Medical Technologist (A.S.C.P.) is obtained by examination by the Board of Registry of Medical Technologists of the American Society of Clinical Pathologists.

The minimum number of semester hours required for this degree, including the 50 hours of General Education Requirements, is 126,* including a one-year clinical training period equivalent to 16 semester hours.

All candidates for the degree must complete:

- A. 60 semester hours in the *major*, 27 of which must be at the upper-division level.

Required are:

2 semester hours of mathematics beyond the General Education Requirements. The total of 6 hours in mathematics (4 from the General Education Requirements and 2 for the major) must be beyond the college algebra level.

*Thirty-nine of the total semester hours required for the degree must be at the upper-division level.

4 semester hours of biological applications of physics.
16 semester hours of chemistry including:

- a) Introductory chemistry
- b) Organic chemistry
- c) Quantitative analytical chemistry

32 semester hours of biology including:

- a) Principles of Biology (BIO 1103, 1111)
- b) Genetics (BIO 2313, 2321)
- c) Mammalian Physiology (BIO 3433, 3441)
- d) Microbiology (BIO 3713, 3721)
- e) Parasitology (BIO 4763, 4771)
- f) Immunology or Virology (BIO 4743, 4751 or BIO 4723, 4731).
- g) Pathogenic Microorganisms (BIO 4783, 4791)
- h) Biochemistry (BIO 3513, 3521)

6 semester hours of medical technology including:

- a) Introduction to the Clinical Laboratory (BIO 1071)
- b) Clinical Microscopy (BIO 2012)
- c) Introductory Pathology (BIO 3011, 3021)
- d) Introduction to Automated Analysis (BIO 3031)

B. A 12 month clinical training period equivalent to 16 semester hours.

COURSE DESCRIPTIONS

BIOLOGY (BIO)

1012 LIFE AND LIVING SYSTEMS

(2-0) 2 hours credit. May not be applied to a major in biology.
An introduction to the life sciences emphasizing general principles, diversity of life forms, reproduction and interrelationships between living things.

1021 LIFE AND LIVING SYSTEMS LABORATORY

(0-2) 1 hour credit. May not be applied to a major in biology.
Must be taken concurrently with BIO 1012.
Laboratory exercises, films and demonstrations in biology.

1033 HUMAN BIOLOGY: ANATOMY AND PHYSIOLOGY

(3-0) 3 hours credit. Prerequisite: College biology or consent of instructor. May not be applied to a major in biology.
Primarily for pre-nursing students. The structure of human muscular, skeletal, nervous and organ systems as related to function.

- 1041 ANATOMY AND PHYSIOLOGY LABORATORY**
(0-2) 1 hour credit. May not be applied to a major in biology.
Must be taken concurrently with BIO 1033.
- 1052 INTRODUCTORY MICROBIOLOGY**
(2-0) 2 hours credit. Prerequisite: College biology or consent of instructor. May not be applied to a major in biology.
A general study of microorganisms, their characteristics, isolation, growth and importance in nature, industry, public health and human disease. Primarily for pre-nursing students.
- 1061 INTRODUCTORY MICROBIOLOGY LABORATORY**
(0-2) 1 hour credit. May not be applied to a major in biology.
Must be taken concurrently with BIO 1052.
- 1071 INTRODUCTION TO THE CLINICAL LABORATORY**
(1-0) 1 hour credit. May not be applied to a major in biology.
Investigation of the career possibility in medical technology. Invited lecturers discuss organization and administration of clinical laboratories, medical terminology, collection techniques and safety practices. To be taken both semesters of the freshman year for 1 hour credit per semester.
- 1103 PRINCIPLES OF BIOLOGY**
(3-0) 3 hours credit. Prerequisite: High school biology and placement examination.
An introduction to living organisms emphasizing fundamentals of organization, reproduction, growth and interrelationships between various forms of life.
- 1111 PRINCIPLES OF BIOLOGY LABORATORY**
(0-3) 1 hour credit.
Must be taken concurrently with BIO 1103.
- 1213 PRINCIPLES OF ENVIRONMENTAL BIOLOGY**
(3-0) 3 hours credit. Prerequisites: BIO 1103 and BIO 1111.
The interaction of organisms with their environment, ecological principles, adaptations of organisms, ecology, environmental pollution and principles of conservation.
- 1221 PRINCIPLES OF ENVIRONMENTAL BIOLOGY LABORATORY**
(0-3) 1 hour credit.
Must be taken concurrently with BIO 1213 by majors; optional for non-majors.
- 2012 CLINICAL MICROSCOPY**
(0-4) 2 hours credit. Prerequisites: BIO 1103, BIO 1111 and introductory chemistry. May not be applied to a major in biology.
Primarily for medical technology students. Laboratory exercises including urine analysis, gastric analysis, stool examination and special tests.
- 2043 NUTRITION**
(3-0) 3 hours credit. Prerequisites: BIO 1033 and BIO 1041. May not be applied to a major in biology.

An examination of human nutritional needs from infancy to adulthood. Primarily for pre-nursing students.

2053 MAN AND HIS ENVIRONMENT

(3-0) 3 hours credit. Prerequisite: College biology or consent of instructor.

The interaction of man with the eco-system and its consequences.

2123 COMPARATIVE ANATOMY OF VERTEBRATES

(3-0) 3 hours credit. Prerequisites: BIO 1103 and BIO 1111.

A detailed study of anatomical differences and similarities of vertebrates with reference to evolutionary changes.

**2131 COMPARATIVE ANATOMY OF VERTEBRATES
LABORATORY**

(0-3) 1 hour credit.

Must be taken concurrently with BIO 2123.

2143 COMPARATIVE VERTEBRATE EMBRYOLOGY

(3-0) 3 hours credit. Prerequisites: BIO 1103 and BIO 1111.

Sequential analysis of development in vertebrates and the factors which effect fertilization organogenesis, and implantation with particular reference to the pig, chick and frog.

**2151 COMPARATIVE VERTEBRATE EMBRYOLOGY
LABORATORY**

(0-3) 1 hour credit.

Must be taken concurrently with BIO 2143.

2162 TISSUE BIOLOGY

(3-0) 2 hours credit. Prerequisites: BIO 1103 and BIO 1111.

The cytological and histological aspects of cellular organization.

2172 TISSUE BIOLOGY LABORATORY

(0-4) 2 hours credit.

Must be taken concurrently with BIO 2162.

2313 GENETICS

(3-0) 3 hours credit. Prerequisites: BIO 1103, BIO 1111, one year of college chemistry and college algebra.

Principles governing transmission of hereditary factors in plants and animals with emphasis on molecular, biochemical and population genetics.

2321 GENETICS LABORATORY

(0-3) 1 hour credit.

To be taken concurrently or following BIO 2313.

Optional for non-majors.

3011 INTRODUCTORY PATHOLOGY

(1-0) 1 hour credit. Prerequisites: BIO 1103, BIO 1111, BIO 3413, and BIO 3421. May not be applied to a major in biology.

Concepts of disease and diagnosis of pathological conditions. Primarily for Medical Technology students.

3021 INTRODUCTORY PATHOLOGY LABORATORY

(0-2) 1 hour credit. May not be applied to a major in biology. Must be taken concurrently with BIO 3011.

- 3031 INTRODUCTION TO AUTOMATED ANALYSIS**
(0-3) 1 hour credit. Prerequisite: Junior standing or consent of instructor. May not be applied to a major in Biology.
Methods for rapid automated analysis of various enzymes and constituents of body fluids. Primarily for medical technology students.
- 3042 FIELD BIOLOGY AND ECOLOGY**
(2-0) 2 hours credit. Prerequisite: College biology or consent of instructor. May not be applied to a major in Biology.
A study of plants and animals in their natural environment; field trips, collection and analysis of field data are included.
- 3051 FIELD BIOLOGY LABORATORY**
(0-3) 1 hour credit. May not be applied to a major in Biology.
Must be taken concurrently with BIO 3042.
- 3213 ANIMAL ECOLOGY**
(3-0) 3 hours credit. Prerequisites: BIO 1213 and BIO 1221.
A detailed study of populations, interrelationships, behavior patterns and physiological responses of animals to their environment.
- 3221 ANIMAL ECOLOGY LABORATORY**
(0-3) 1 hour credit.
Must be taken concurrently with BIO 3213.
- 3323 EVOLUTION**
(3-0) 3 hours credit. Prerequisite: BIO 2313.
A discussion of theories and possible mechanisms for evolutionary changes at various levels of organization.
- 3413 GENERAL PHYSIOLOGY**
(3-0) 3 hours credit. Prerequisites: BIO 1103, BIO 1111 and organic chemistry.
Basic concepts of respiration, photosynthesis, vascular function, endocrine, ion and water balance and other processes in living systems.
- 3421 GENERAL PHYSIOLOGY LABORATORY**
(0-3) 1 hour credit.
Must be taken concurrently with BIO 3413.
- 3433 MAMMALIAN PHYSIOLOGY**
(3-0) 3 hours credit. Prerequisite: BIO 3413, BIO 3421 or consent of instructor.
Physiology of organs and organ systems of vertebrates with primary emphasis on mammals.
- 3441 MAMMALIAN PHYSIOLOGY LABORATORY**
(0-3) 1 hour credit.
Must be taken concurrently with BIO 3433.
- 3513 BIOCHEMISTRY**
(3-0) 3 hours credit. Prerequisites: CHE 2223 and CHE 2232.
A study of molecules found in living cells including carbohydrates, lipids, proteins, enzymes, nucleic acids and their biosynthesis and metabolic reactions. This course may also be taken as CHE 4203.

- 3521 BIOCHEMISTRY LABORATORY**
 (0-3) 1 hour credit.
 Must be taken concurrently with BIO 3513.
 A laboratory study of biochemical compounds. This course may also be taken as CHE 4211.
- 3533 RADIATION BIOLOGY**
 (3-0) 3 hours credit. Prerequisites: BIO 3513 and BIO 3521.
 Interactions of ionizing ultraviolet and visible radiations with matter; biological effects; cellular repair of radiation damage; biological photo-receptors.
- 3541 RADIATION BIOLOGY LABORATORY**
 (0-1) 1 hour credit.
 Must be taken concurrently with BIO 3533.
- 3713 MICROBIOLOGY**
 (3-0) 3 hours credit. Prerequisites: BIO 1103, BIO 1111, BIO 2313, BIO 2321, BIO 3533, BIO 3541 or concurrently with latter two.
 A comprehensive study of microorganisms including their composition, morphology, growth, metabolism, classification, ecology and significance in disease.
- 3721 MICROBIOLOGY LABORATORY**
 (0-1) 1 hour credit.
 Must be taken concurrently with BIO 3713.
- 3732 INDUSTRIAL MICROBIOLOGY**
 (2-0) 2 hours credit. Prerequisites: BIO 3713 and BIO 3721.
 A study of fermentations of industrial importance, food processing, and quality control.
- 3741 INDUSTRIAL MICROBIOLOGY LABORATORY**
 (0-1) 1 hour credit.
 Must be taken concurrently with BIO 3732.
- 3813 CELLULAR BIOLOGY**
 (3-0) 3 hours credit. Prerequisites: BIO 3513 and BIO 3521.
 The composition, function and interaction of cellular constituents and substructures at the ultra-structural level.
- 3821 CELLULAR BIOLOGY LABORATORY**
 (0-1) 1 hour credit.
 Must be taken concurrently with BIO 3813.
- 3831 TISSUE AND ORGAN CULTURE**
 (1-0) 1 hour credit. Prerequisites: BIO 3713, 3721, 3513, 3521.
 Theoretical and practical aspects of maintaining and growing cells, tissues and organs from various sources.
- 3842 TISSUE AND ORGAN CULTURE LABORATORY**
 (0-4) 2 hours credit.
 Must be taken concurrently with BIO 3831.
- 4073 LAW, ETHICS AND THE LIFE SCIENCES**
 (3-0) 3 hours credit. Prerequisite: College biology or consent of instructor. May not be applied to a major in biology.
 An examination of the ethical, philosophical and social implications.

- tions of studies in those areas of the life sciences which affect public policy or action, e.g., incentives to slow population growth; psychology of consciousness and definitions of life and death.
- 4083 HEREDITY, EVOLUTION, RACE AND SOCIETY**
 (3-0) 3 hours credit. Prerequisite: College biology or consent of instructor. May not be applied to a major in biology.
 A study of variation and evolutionary change in relation to human thought, experience, cultural evolution, diversity and mating systems.
- 4333 POPULATION GENETICS**
 (3-0) 3 hours credit. Prerequisites: BIO 2313 and BIO 2321.
 A quantitative approach to the study of genetic systems in populations, including mutations, selection, polymorphism and mating systems.
- 4343 MOLECULAR GENETICS**
 (3-0) 3 hours credit. Prerequisites: BIO 2313, 2321, 3513, and 3521.
 Molecular approach to structure, replication, mutation and phenotypic expression of genetic material.
- 4433 NEUROBIOLOGY**
 (3-0) 3 hours credit. Prerequisites: BIO 3413 and BIO 3421.
 Physiology of the sensory receptors and central and peripheral processing of information, including neural and endocrine interrelationships, effects of environmental stimuli on neural systems, and neural correlates of behavior.
- 4443 ENDOCRINOLOGY**
 (3-0) 3 hours credit. Prerequisites: BIO 3433 and BIO 3441.
 A consideration of the physiological effects of hormones on the organism in health and disease, together with a study of the gross and microscopic morphology of the glands of internal secretion.
- 4451 ENDOCRINOLOGY LABORATORY**
 (0-3) 1 hour credit.
 Must be taken concurrently with BIO 4443.
- 4523 INTERMEDIARY METABOLISM**
 (3-0) 3 hours credit. Prerequisites: BIO 3513 and BIO 3521.
 A detailed consideration of metabolic pathways, energy metabolism and their regulation. This course may also be taken as CHE 4223.
- 4531 INTERMEDIARY METABOLISM LABORATORY**
 (0-1) 1 hour credit.
 Must be taken concurrently with BIO 4523.
 This course may also be taken as CHE 4231.
- 4543 BIOCHEMICAL TECHNIQUES**
 (0-6) 3 hours credit. Prerequisites: BIO 4523 and BIO 4531.
 Laboratory experience in methods of biochemical fractionation, purification and analysis of components.

- 4723 VIROLOGY**
(3-0) 3 hours credit. Prerequisites: BIO 3713, 3721, 3513, and 3521.
A study of the diversity of viruses and biochemical mechanisms for their replication.
- 4731 VIROLOGY LABORATORY**
(0-1) 1 hour credit.
Must be taken with or following BIO 4723.
- 4743 IMMUNOLOGY**
(3-0) 3 hours credit. Prerequisites: BIO 3713, 3721, 3513, and 3521.
A study of the properties of antigens and antibodies, current concepts of humoral and cell-mediated immunity and the cells involved.
- 4751 IMMUNOLOGY LABORATORY**
(0-1) 1 hour credit.
Must be taken with or following BIO 4743.
- 4763 PARASITOLOGY**
(3-0) 3 hours credit. Prerequisites: BIO 3713 and BIO 3721.
A study of the animal parasites of humans and related host with emphasis on their epidemiology, life cycles, pathology and control.
- 4771 PARASITOLOGY LABORATORY**
(0-3) 1 hour credit.
Must be taken concurrently with BIO 4763.
- 4783 PATHOGENIC MICROORGANISMS**
(3-0) 3 hours credit. Prerequisites: BIO 3713 and BIO 3721.
A consideration of medically important microorganisms and their interaction with animal and human hosts.
- 4791 PATHOGENIC MICROORGANISMS LABORATORY**
(0-3) 1 hour credit.
Must be taken concurrently with BIO 4783.
- 4953 SPECIAL STUDIES PROJECT**
(0-6) 3 hours credit. Prerequisite: Consent of Division Director.
A special studies laboratory research or library readings project resulting in a report. Limited to students in their final year of undergraduate study.

DIVISION OF EARTH AND PHYSICAL SCIENCES

The degree options offered by this Division reflect its policy of providing comprehensive education of the highest quality, individualized to the needs and interests of the student. Completion of a core curriculum permits entry into one of several highly specialized areas in earth science, chemistry or physics. A major in any of these prepares the student for positions in industry and government as well as entry into professional and graduate schools. The recommended program for majors concentrates much of the specialty in the early years, thereby permitting increased specialization later in the college career.

BACHELOR OF SCIENCE DEGREE IN CHEMISTRY

The minimum number of semester hours required for this degree, including the 50 semester hours of General Education Requirements, is 126.* All candidates for the degree must complete:

- A. 31 semester hours of *required* chemistry courses, 13 of which must be at the upper-division level. The courses are:

Introductory Chemistry (CHE 1103)	3 credit hours
Chemical Principles (CHE 1203)	3 credit hours
Organic Chemistry (CHE 2203, 2223)	6 credit hours
Physical Chemistry (CHE 3203, 3223)	6 credit hours
Analytical Chemistry (CHE 1212, 2212, 2232, 3212, 3232)	10 credit hours
Special Studies Project (CHE 4953)	3 credit hours

- B. A minimum of 8 credit hours of *elective* chemistry at the upper-division level selected from:

Biochemistry (CHE 4203, 4211, 4223, 4231)
Inorganic Chemistry (CHE 4263, 4273, 4282)

*Thirty-nine of the total semester hours regarded for the degree must be at the upper-division level.

Organic Chemistry (CHE 4243)
Physical Chemistry (CHE 4253)
Nuclear Chemistry and Radioisotope Techniques
(CHE 4293)

C. 28 semester hours of *support work*.

Required courses (20 semester hours) are:

Physics (PHY 1903, 1911, 1923, 1931)	8 credit hours
Calculus (MAT 1213, 1223)	6 credit hours
Advanced Mathematics (MAT 2213 or 1723)	3 credit hours
Introduction to Computer Science (MAT 1713)	3 credit hours

A minimum of an additional 9 hours of *elective support courses*, to be taken from Mathematics and Computer Science, is required.

D. 8 semester hours of *free electives*.

COURSE DESCRIPTIONS

CHEMISTRY

(CHE)

1103 INTRODUCTORY CHEMISTRY

(3-0) 3 hours credit.

An introductory course in chemistry for non-science majors. A placement examination is required.

1123 CHEMISTRY IN SOCIETY

(3-0) 3 hours credit. Prerequisite: CHE 1103.

An introductory course in chemistry for non-science majors.

1143 CHEMISTRY AND FOLKLORE MEDICINE: THE ALKALOIDS

(3-0) 3 hours credit. May not be applied to a major in science.

The course will deal with such commonly known drugs as quinine (antimalarial), Rauwolfia serpentina (hypotensive), ergot alkaloids (uterine contracting agents), nicotine (tobacco), vinblastine and vincristine (antileukemic alkaloids), morphine alkaloids (analgesics), anaesthetizing alkaloid Cocaine, psychotomimetic drugs (Mescaline, peyote species), opium alkaloids, ipecac alkaloids (antiamoebics), strychnos alkaloids (arrow poisons).

1153 THE CHEMISTRY OF FASHION

(3-0) 3 hours credit. May not be applied to a major in science.

A survey of the chemical nature of synthetic fibers, fabrics, scents, dyes, cosmetics, and toiletries.

- 1163 INTRODUCTORY MARINE CHEMISTRY**
(2-3) 3 hours credit. May not be applied to a major in science.
A general survey of chemical processes in the sea; value, analysis, collection, concentration, refining and uses of sea and seabed minerals.
- 1203 CHEMICAL PRINCIPLES**
(3-0) 3 hours credit. Prerequisite: CHE 1103. Primarily for science majors.
Development and application of chemical concepts, theories and laws.
- 1212 ANALYTICAL CHEMISTRY I**
(0-6) 2 hours credit. Prerequisite: CHE 1203 or concurrent registration.
An introductory laboratory course quantitatively illustrating chemical concepts, theories and laws.
- 2103 ELEMENTARY ORGANIC AND BIOCHEMISTRY**
(3-0) 3 hours credit. Prerequisite: CHE 1123 or CHE 1203. May not be applied to a major in chemistry.
A one semester survey of organic and biochemical structure and reactions.
- 2111 ORGANIC AND BIOCHEMISTRY LABORATORY**
(0-3) 1 hour credit. Prerequisite: CHE 2103 or concurrent registration. May not be applied to a major in chemistry.
An introductory laboratory course in elementary organic and biochemistry.
- 2203 ORGANIC CHEMISTRY I**
(3-0) 3 hours credit. Prerequisites: CHE 1203 and CHE 1212. Primarily for science majors.
Fundamentals of structure and reactivity of organic compounds.
- 2212 ANALYTICAL CHEMISTRY II**
(1-3) 2 hours credit. Prerequisite: CHE 2203 or concurrent registration. Primarily for science majors.
Qualitative and quantitative analysis of organic compounds.
- 2223 ORGANIC CHEMISTRY II**
(3-0) 3 hours credit. Prerequisites: CHE 2203 and CHE 2212.
Fundamentals of structure and reactivity of organic compounds. For science majors but open to others. A continuation of CHE 2203.
- 2232 ANALYTICAL CHEMISTRY III**
(1-3) 2 hours credit. Prerequisite: CHE 2212.
Elementary qualitative and quantitative analysis of organic compounds. For science majors but open to others. A continuation of CHE 2212.
- 3203 PHYSICAL CHEMISTRY I**
(3-0) 3 hours credit. Prerequisites: CHE 2223 or concurrent registration; calculus and 2 semesters of physics.
The chemical thermodynamics of gas and liquid systems, the nature of the chemical bond and other concepts.

- 3212 ANALYTICAL CHEMISTRY IV**
 (1-3) 2 hours credit. Prerequisite: CHE 3203 or concurrent registration.
 An experimental study of chemical thermodynamics, bonding and other concepts.
- 3223 PHYSICAL CHEMISTRY II**
 (3-0) 3 hours credit. Prerequisite: CHE 3203.
 Studies in reaction kinetics, electrochemistry, molecular structure and other concepts. A continuation of CHE 3212.
- 3232 ANALYTICAL CHEMISTRY V**
 (1-3) 2 hours credit. Prerequisite: CHE 3223 or concurrent registration.
 Experimental study of reaction kinetics, electrochemistry, molecular structure and other concepts. A continuation of CHE 3212.
- 4203 BIOCHEMISTRY I**
 (3-0) 3 hours credit. Prerequisites: CHE 2223 and CHE 2232.
 This course is offered as BIO 3513 and is described with the Biology course listings.
- 4211 ANALYTICAL CHEMISTRY VI**
 (0-3) 1 hour credit. Prerequisite: CHE 4203 or concurrent registration.
 This course is offered as BIO 3521 and is described with the Biology course listings.
- 4223 BIOCHEMISTRY II**
 (3-0) 3 hours credit. Prerequisite: CHE 4203.
 This course is offered as BIO 4523 and is described with the Biology course listings.
- 4231 ANALYTICAL CHEMISTRY VII**
 (0-3) 1 hour credit. Prerequisite: CHE 4223 or concurrent registration.
 This course is offered as BIO 4531 and is described with the Biology course listings.
- 4243 ORGANIC CHEMISTRY III**
 (3-0) 3 hours credit. Prerequisites: CHE 2223 and CHE 2232.
 An advanced organic chemistry. A continuation of CHE 2223.
- 4253 PHYSICAL CHEMISTRY III**
 (3-0) 3 hours credit. Prerequisites: CHE 3223 and CHE 3232.
 An advanced physical chemistry; a continuation of CHE 3223.
- 4263 INORGANIC CHEMISTRY I**
 (3-0) 3 hours credit. Prerequisite: CHE 3212.
 A survey of the discovery and periodic properties of the elements.
- 4273 INORGANIC CHEMISTRY II**
 (3-0) 3 hours credit. Prerequisite: CHE 4263 or consent of instructor.
 An advanced study of atomic and molecular structure, ionic crystals, metal complexes, acid-base theory and other subjects.

4282 INORGANIC PREPARATIONS

(0-6) 2 hours credit. Prerequisite: CHE 3232 or consent of instructor.

A laboratory study of inorganic structure and complex ion formation.

4293 NUCLEAR CHEMISTRY AND RADIOISOTOPE TECHNIQUES

(3-0) 3 hours credit. Prerequisite: Consent of instructor.

A study of nuclear reactions, radiation detection and measurement, and chemical applications.

4301 ANALYTICAL CHEMISTRY VIII

(0-3) 1 hour credit. Prerequisite: CHE 4293 or concurrent registration.

A laboratory study of nuclear reactions, radiation detection and measurement, and chemical applications.

4953 SPECIAL STUDIES PROJECT

(0-6) 3 hours credit. Prerequisite: Consent of Division Director.

A special studies laboratory research or library readings project resulting in a report. Limited to students in their final year of undergraduate study.

BACHELOR OF SCIENCE DEGREE IN PHYSICS

The minimum number of semester hours required for this degree, including the 50 hours of General Education Requirements, is 129.* All candidates for the degree must complete:

- A. 19 semester hours of *required* courses in the *major*, 11 of which must be at the upper-division level. The courses are:

Technical Physics I and II (PHY 1903, 1923)	6 credit hours
Technical Physics Laboratory I and II (PHY 1911, 1931)	2 credit hours
Electronics (PHY 3704)	4 credit hours
Microphysics (PHY 3723)	3 credit hours
Experimental Physics I and II (PHY 3822, 3842)	4 credit hours

- B. A minimum of 11 semester hours of *elective* physics courses, all of which must be at the upper-division level. These courses are to be chosen in consultation with an Advisor in the Division of Earth and Physical Sciences and approved by the Division Director.

- C. 29 semester hours of *support* work.

Required courses (17 semester hours) are:

Chemistry (CHE 1103, 1203 and 1212)	8 credit hours
Mathematics (MAT 1213, 1223 and 1713)	9 credit hours

A minimum of an additional 12 credit hours of *elective support* courses, at least 3 of which must be upper-division, to be chosen in consultation with an Advisor in the Division of Earth and Physical Sciences, is required. Support areas are biology, chemistry, mathematics and systems design.

- D. 20 semester hours of *free electives*.

*Thirty-nine of the total semester hours required for the degree must be at the upper-division level.

A student majoring in physics may elect to pursue one of the following options: applied physics, biophysics, pre-medicine, or professional physics. Students electing the biophysics and pre-medical options will be advised to use some of their free electives for additional biology and chemistry courses other than those already specifically listed. The applied option generally requires additional chemistry and mathematics courses. The professional option, for students intending to pursue an advanced degree in physics, requires considerable additional physics and mathematics courses. At least 40 total credit hours in physics is recommended in this later option.

COURSE DESCRIPTIONS

PHYSICS

(PHY)

1703 PHYSICS OF ENERGY AND THE ENVIRONMENT

(3-0) 3 hours credit.

The topics considered, and some of their inter-relations, are: the automobile and mass transportation, common sources of energy, electrical power generation, nuclear, solar and geothermal energy, communications, air, water and noise pollution. Use of mathematics is limited.

1713 PHYSICS OF THE SEA AND THE COAST

(3-0) 3 hours credit. Prerequisite: high school algebra.

Phenomena are described and explanations evolved bringing out underlying physical principles. Major subdivisions of phenomena to be studied are: bulk properties of sea water, waves, tides, air-sea interactions, currents. Practical applications are discussed. Use of mathematics is limited.

1723 LIGHT, COLOR AND PHOTOGRAPHY

(3-0) 3 hours credit.

A non-mathematical study of the basic concepts of optics and their applications in everyday life. Perception of light and color, lasers and other topics of interest to non-scientists, especially artists and photographers, are discussed.

1803 PHYSICS FOR LIFE SCIENCES I

(3-0) 3 hours credit. Prerequisite: working knowledge of high school algebra.

The principles of physics with applications and problem solving useful to biology and pre-medical students.

Topics are: mechanics, properties of matter, including fluid mechanics, waves and acoustics. PHY 1811 must be taken concurrently unless already passed.

1811 PHYSICS FOR LIFE SCIENCES I LABORATORY

(0-3) 1 hour credit.

Experiments primarily in mechanics, fluids and waves. To be taken with PHY 1803.

- 1823 PHYSICS FOR LIFE SCIENCES II**
 (3-0) 3 hours credit. Prerequisite: PHY 1803.
 A continuation of Physics for Life Sciences I.
 Topics are: electricity, magnetism, optics, atomic and nuclear physics. PHY 1831 must be taken concurrently unless already passed.
- 1831 PHYSICS FOR LIFE SCIENCES II LABORATORY**
 (0-3) 1 hour credit.
 Continuation of PHY 1811. Experiments primarily are in optics, electricity, magnetism and modern physics. To be taken with PHY 1823.
- 1903 TECHNICAL PHYSICS I**
 (3-0) 3 hours credit. Prerequisites: MAT 1213 or concurrent registration and PHY 1911 or concurrent registration.
 The basic concepts of physics and techniques of problem solving needed for succeeding courses. Material covered is in classical and relativistic mechanics, waves and sound. This is not a survey nor a terminal course.
- 1911 TECHNICAL PHYSICS I LABORATORY**
 (0-3) 1 hour credit.
 Experiments primarily in mechanics and waves. To be taken with PHY 1903.
- 1923 TECHNICAL PHYSICS II**
 (3-0) 3 hours credit. Prerequisites: PHY 1903, MAT 1223 or concurrent registration, and PHY 1931 or concurrent registration.
 A continuation of Technical Physics I. Material covered is in electricity, magnetism, optics and modern physics.
- 1931 TECHNICAL PHYSICS II LABORATORY**
 (0-3) 1 hour credit.
 Experiments primarily in electricity, magnetism, optics and modern physics. To be taken with PHY 1923.
- 3704 ELECTRONICS**
 (3-3) 4 hours credit. Prerequisite: working knowledge of high school algebra. Some college physics is also desirable.
 Introduction to d.c. and a.c. circuits, electronic components and their uses in basic circuits for instrumentation commonly encountered in the scientific laboratory.
- 3723 MICROPHYSICS**
 (3-0) 3 hours credit. Prerequisites: PHY 1923 and MAT 1223.
 Atomic-, molecular-, nuclear-, and solid-state-physics: their basic concepts, principles and applications are presented.
- 3743 PHYSICAL MECHANICS**
 (3-0) 3 hours credit. Prerequisites: PHY 1923 and MAT 1223.
 Kinematics and dynamics of a particle, systems of particles, central force motion, rigid body motion in a plane, accelerated reference frames.

- 3763 ELECTRICITY AND MAGNETISM**
 (3-0) 3 hours credit. Prerequisites: PHY 1923, MAT 2223 or concurrent registration.
 Electrostatics, currents, magnetic fields, introduction to Maxwell's equations.
- 3783 WAVE MOTION**
 (3-0) 3 hours credit. Prerequisites: MAT 2213 plus one of the following: PHY 3743, PHY 3763.
 The essential features of wave motion, unifying material primarily from acoustics and physical optics. Some of the topics considered are: derivation of the classical wave equation and its one-dimensional solution, super-position, interference, energy content of waves, doppler effect, polarization, coherence, diffraction.
- 3803 THERMODYNAMICS AND STATISTICAL MECHANICS**
 (3-0) 3 hours credit. Prerequisites: PHY 1203, PHY 1923 and MAT 2213.
 Heat, the kinetic theory of gases, the laws of thermodynamics, elements of statistical mechanics.
- 3822 EXPERIMENTAL PHYSICS I**
 (1-3) 2 hours credit. Prerequisite: PHY 1923.
 Experiments mostly in optics, acoustics, solid-state physics and x-rays. The purpose is to familiarize the student with apparatus and techniques common to many research laboratories.
- 3842 EXPERIMENTAL PHYSICS II**
 (1-3) 2 hours credit. Prerequisites: PHY 3723 and PHY 3822.
 Designed to follow Experimental Physics I. The experiments are mostly in x-rays and nuclear physics.
- 3862 EXPERIMENTAL PHYSICS III**
 (1-3) 2 hours credit. Prerequisites: PHY 3842 or consent of instructor and PHY 3723.
 Experiments in atomic and nuclear physics. Emphasis is on considerable student independence in performing experiments.
- 3883 BIOPHYSICS I**
 (3-0) 3 hours credit. Prerequisites: CHE 1203, PHY 1923 and MAT 1223.
 Study of biological systems from the physicist's point of view. Topics are: introduction to atomic structure, molecular bonds, concepts of molecular biophysics, macromolecules, interaction of radiation with biological materials.
- 3893 BIOPHYSICS II**
 (3-0) 3 hours credit. Prerequisite: PHY 3883.
 Study of biological systems from a physicist's point of view. Topics are: molecular transformations and methods of regulation, survey of physical experimental techniques in molecular biophysics, macroscopic structures in the context of molecular biophysics, and some thermodynamics of living systems.

4703 DYNAMICS

(3-0) 3 hours credit. Prerequisites: PHY 3743, MAT 2223 and MAT 3123.

An introduction to Lagrangian and Hamiltonian methods, motion of a rigid body in three dimensions, and small oscillations.

4723 ELECTROMAGNETIC RADIATION

(3-0) 3 hours credit. Prerequisites: PHY 3763 and MAT 3123.

Maxwell's equations, electromagnetic waves, interaction of electromagnetic radiation with matter such as in reflection and refraction, waveguides and scattering of plane waves.

4743 FLUID MECHANICS

(3-0) 3 hours credit. Prerequisites: PHY 3743, MAT 2223 and MAT 3123.

Dynamical properties of fluids from basic equations of motion; behavior of fluids in actual situations: the atmosphere and the ocean.

4763 INTRODUCTION TO QUANTUM MECHANICS

(3-0) 3 hours credit. Prerequisites: PHY 3723 and MAT 2223.

Wave packets, uncertainty principle, Schrodinger equation, one-dimensional problems, the hydrogen atom, and angular momentum.

4783 NUCLEAR PHYSICS

(3-0) 3 hours credit. Prerequisite: PHY 3723.

Radioactivity, nuclear reactions, nuclear properties, survey of nuclear models, elementary particles.

COURSE DESCRIPTIONS

ASTRONOMY

(AST)

1013 INTRODUCTION TO ASTRONOMY I

(3-0) 3 hours credit.

A descriptive course including the development of astronomy, its methods, the motions, laws and evolution of the solar system. Occasional evening viewing sessions are held.

1023 INTRODUCTION TO ASTRONOMY II

(3-0) 3 hours credit. Prerequisite: AST 1013 or consent of instructor.

The general properties and types of stars, unusual stellar objects such as quasars and black holes, galaxies, evolution and cosmology. Occasional evening viewing sessions may be held.

1031 INTRODUCTION TO ASTRONOMY LABORATORY

(0-2) 1 hour credit. Prerequisite: AST 1013 or consent of instructor.

Exercises in the use of the telescope and certain other astronomical instruments to include simple observations, measurement and photography. This course, though optional, is of most value when accompanying AST 1023.

DIVISION OF MATHEMATICS, COMPUTER SCIENCE, AND SYSTEMS DESIGN

The aim of the Division of Mathematics, Computer Science, and Systems Design is to give the student a broad foundation of knowledge across the areas of mathematics, statistics, and computer science.

The Division offers a Bachelor of Science Degree in Mathematics, Computer Science, and Systems Design. Courses, in addition to those required for the degree, may be chosen so that the student's work is concentrated in the areas of mathematics, applied math, statistics, computer science, or any combination thereof.

Beyond the required hours, the student is free to choose any collection of courses from within The University to build a meaningful interdisciplinary degree. The Division recommends that at least two of the following sequences be taken by the science-oriented student: Technical Physics I and II (PHY 1903, 1911 and PHY 1923, 1931); Introductory Chemistry (CHE 1103) and Chemical Principles (CHE 1203); Principles of Biology (BIO 1103); and Principles of Environmental Biology (BIO 1213) or Genetics (BIO 2313) or Tissue Biology (BIO 2162). Recommendation for meaningful sequences in environmental studies and social science can be obtained upon request from the Division of Mathematics, Computer Science, and Systems Design.

BACHELOR OF SCIENCE DEGREE IN MATHEMATICS, COMPUTER SCIENCE, AND SYSTEMS DESIGN

The minimum number of semester hours required for this degree, including the 50 hours of General Education Requirements, is 126.*

*Thirty-nine of the total semester hours required for the degree must be at the upper-division level.

All candidates for the degree must complete:

- A. 21 semester hours of required courses in the major, including the four hours of General Education Requirements in Math.*

Required Courses are:

MAT 1213 Calculus I
MAT 1223 Calculus II
MAT 1713 Introduction to Computer Science
MAT 1723 Information Structures
MAT 2213 Calculus III
MAT 3513 Probability and Statistics
MAT 3533 Applied Statistics I

- B. 30 additional semester hours of electives in the *major*, 21 of which must be at the upper-division level and none of which be numbered between 1000 and 1999. These hours may be used to constitute specializations in mathematics, applied mathematics, statistics, computer science, or any combination thereof.

- C. 29 semester hours of *free electives*.

COURSE DESCRIPTIONS

MATHEMATICS, COMPUTER SCIENCE, AND SYSTEMS DESIGN (MAT)

1011 ALGEBRA

(1-0) 1 hour credit.

A course consisting of a series of modules covering aspects of college algebra. Includes: exponents; arithmetic and factorization of polynomials; rational expressions; negative and rational exponents; scientific notation; radicals solving linear and quadratic equations; linear inequalities; absolute values; Cartesian coordinates, distance formula, linear equations; relations, functions, graphing functions.

1022 FUNDAMENTALS OF CALCULUS

(2-0) 2 hours credit. Prerequisite: MAT 1011.

Derivatives of functions and their interpretations; formulas for derivatives; curve sketching using derivatives; maximum and minimum problems; exponentials and logarithmic functions and their derivatives; implicit differentiation; partial derivatives and application; anti-derivatives; indefinite integrals; integration formulas; definite integrals and application.

*The student who is not prepared to begin in MAT 1213 must take from one to three additional pre-calculus hours.

- 1031 APPLIED LINEAR ALGEBRA**
(1-0) 1 hour credit. Prerequisite: MAT 1011.
Systems of linear equations, solution by elimination; systems of linear inequalities; introduction to linear programming; vectors and matrices, determinant, inverses of matrices, applications.
- 1043 INTRODUCTORY COMPUTER PROGRAMMING FOR BUSINESS APPLICATIONS**
(3-0) 3 hours credit. Prerequisite: MAT 1011.
Introductory FORTRAN programming. Sorting and ranking; plotting; inventory control.
- 1051 PROBABILITY AND FINITE MATH**
(1-0) 1 hour credit. Prerequisite: MAT 1011.
Events; sample spaces, partitioning the sample space; probability functions; probabilities of events; calculating probabilities; conditional probabilities and independent events; relative frequency interpretation of probability.
- 1062 STATISTICS**
(2-0) 2 hours credit. Prerequisite: MAT 1051.
Relative frequency interpretation of probability and related notions such as distribution functions; random variables; expected values; descriptive statistics; some common distributions: the binomial, Poisson, normal and sampling distributions from the normal; interval estimates; test of hypotheses.
- 1073 INTRODUCTORY COMPUTER PROGRAMMING FOR NUMERICAL APPLICATIONS**
(3-0) 3 hours credit. Prerequisite: MAT 1011.
Introductory FORTRAN programming. Sorting and ranking; plotting; numerical taxonomy. Solution of non-linear equations; linear regression. Solution of linear systems.
- 1083 INTRODUCTORY COMPUTER PROGRAMMING FOR NON-NUMERICAL APPLICATIONS**
(3-0) 3 hours credit. Prerequisite: MAT 1011 or MAT 1122.
Introductory FORTRAN programming. Sorting and ranking; plotting; cataloging and information storage and retrieval.
- 1092 TRIGONOMETRY**
(2-0) 2 hours credit. Prerequisite: MAT 1011.
A basic study of the measurement of angles, the six trigonometric functions and elementary identities.
- 1112 MATHEMATICS FOR ELEMENTARY EDUCATION MAJORS I**
(2-0) 2 hours credit. Prerequisite: Must have a declared major of Elementary Education.
Sets, positive integers and zero, mathematical systems, negative integers, rational numbers, irrational numbers.
- 1122 MATHEMATICS FOR ELEMENTARY EDUCATION MAJORS II**
(2-0) 2 hours credit. Prerequisites: Must have a declared major of

- Elementary Education and MAT 1112.
The real number system, complex numbers.
- 1213 CALCULUS I**
(3-0) 3 hours credit. Prerequisites: MAT 1011 and MAT 1092 or the equivalents.
An introduction to the concepts of limit, continuity and derivative.
- 1223 CALCULUS II**
(3-0) 3 hours credit. Prerequisite: MAT 1213.
The Riemann integral and the fundamental theorem of calculus. Transcendental functions, polar coordinates, methods of integration and applications of the integral.
- 1713 INTRODUCTION TO COMPUTER SCIENCE**
(3-0) 3 hours credit.
Introduction to algebraic language programming and to algorithmic processes.
- 1723 INFORMATION STRUCTURES**
(3-0) 3 hours credit. Prerequisite: MAT 1713.
Introduction to machine language programming and effective methods of representing information in a modern digital computer.
- 2013 STATISTICAL METHODS IN THE LIFE AND SOCIAL SCIENCES I**
(3-0) 3 hours credit. Prerequisites: MAT 1062.
Small sample inference; comparing several means; method of least squares and linear and non-linear regression; the chi square distribution and categorical data; non-parametric methods. Emphasis on applications and examples in the life and social sciences.
- 2113 APPLIED MATHEMATICS**
(3-0) 3 hours credit. Prerequisite: MAT 1223.
Introduction to the modern applications of mathematics in the physical, biological and social sciences.
- 2123 ELEMENTARY DIFFERENTIAL EQUATIONS**
(3-0) 3 hours credit. Prerequisite: MAT 1223.
Basic notions of differential equations: solution of linear equations with constant coefficient; n^{th} order initial value problems; power series solutions of differential equations; introduction to two-point boundary value problems.
- 2213 CALCULUS III**
(3-0) 3 hours credit. Prerequisite: MAT 1223.
Topics in differential and integral calculus, infinite series and differential equations. Basics of linear algebra
- 2223 CALCULUS IV**
(3-0) 3 hours credit. Prerequisite: MAT 2213.
Topics in differential and integral calculus, calculus of \mathbb{R}^3 , Green's theorem, Stokes' theorem, partial derivatives and multiple integrals.

- 2233. MATRIX ALGEBRA**
(3-0) 3 hours credit. Prerequisite: MAT 2213.
Vector spaces and matrix algebra, matrices and determinants, characteristic values of matrices and reduction to canonical forms. Emphasis on applications.
- 2713 DISCRETE MATHEMATICAL STRUCTURES**
(3-0) 3 hours credit. Prerequisite: MAT 1723.
A survey of Boolean algebra, group theory, logic, Turing machines and Markov processes and their applications in computer science.
- 2723 LOGIC DESIGN AND COMPUTER ORGANIZATION**
(3-0) 3 hours credit. Prerequisite: MAT 2713.
Switching circuits. Computer arithmetic and design of fixed and floating point arithmetic units. Systems architecture design.
- 3013 STATISTICAL METHODS IN THE LIFE AND SOCIAL SCIENCES II**
(3-0) 3 hours credit. Prerequisites: MAT 2013 and MAT 1713 or MAT 1073.
An introduction to multivariate statistical methods: the multinormal distribution; tests concerning means; multivariate analysis of variance; principal components and factor analysis; use of existing computer program packages in analyzing multivariable data. Emphasis on applications and examples in the life and social sciences.
- 3113 ALGEBRA FOR ELEMENTARY TEACHERS**
(3-0) 3 hours credit. Prerequisite: Must have a declared major of Elementary Education, or MAT 1123.
Linear equations, quadratic equations, systems of equations and inequalities.
- 3123 GEOMETRY FOR ELEMENTARY TEACHERS**
(3-0) 3 hours credit. Prerequisite: Must have a declared major of Elementary Education and MAT 1122.
The nature of geometry from an intuitive and from a formal point of view, with applications. Topics include: congruence, measurement, parallelism, similarity.
- 3213 FOUNDATIONS OF ANALYSIS**
(3-0) 3 hours credit. Prerequisite: MAT 2223.
A rigorous development of the foundations of real analysis; basic point set topology; limits; continuity. Emphasis on theorem proving and mathematical rigor.
- 3223 COMPLEX VARIABLES**
(3-0) 3 hours credit. Prerequisite: MAT 2213.
An introduction to complex variables including: Elementary functions, line integrals, power series, residues and poles and conformal mappings.
- 3233 MODERN ALGEBRA**
(3-0) 3 hours credit. Prerequisite: MAT 2213.

An introduction to the concepts of modern algebra by way of the integers. Emphasis on theorem proving and mathematical rigor.

3513 PROBABILITY AND STATISTICS

(3-0) 3 hours credit. Prerequisite: MAT 2223.

Basic concepts of probability; probability distributions and densities; mathematical expectation; examples of discrete and continuous distributions; random variables.

3523 MATHEMATICAL STATISTICS

(3-0) 3 hours credit. Prerequisite: MAT 3513.

Functions of random variables; distribution theory; central limit theorem; sampling distributions; theory of estimation and hypothesis testing.

3533 APPLIED STATISTICS I

(3-0) 3 hours credit. Prerequisite: MAT 3513.

Methodology of applied statistics; simple and compound tests of hypotheses; confidence intervals and point estimation; tests for randomness and independence; introduction to queuing theory.

3613 DIFFERENTIAL EQUATIONS I

(3-0) 3 hours credit. Prerequisite: MAT 2213.

Introduction to the theory of ordinary differential equations. Existence and uniqueness, linear differential equations, stability.

3623 DIFFERENTIAL EQUATIONS II

(3-0) 3 hours credit. Prerequisite: MAT 3613.

Introduction to theory of partial differential equations. First order equations, second order elliptic, parabolic and hyperbolic equations.

3633 NUMERICAL ANALYSIS I

(3-0) 3 hours credit. Prerequisites: MAT 2213 and MAT 1723.

Solution of linear and non-linear equations, curve-fitting, numerical integration.

3643 NUMERICAL ANALYSIS II

(3-0) 3 hours credit. Prerequisite: MAT 3633.

Numerical solution of ordinary and partial differential equations.

3713 ANALYSIS OF ALGORITHMS

(3-0) 3 hours credit. Prerequisites: MAT 2213 and MAT 2723.

Analysis of the efficiency of algorithms and data structures.

3723 PROGRAMMING LANGUAGES

(3-0) 3 hours credit. Prerequisite: MAT 3713.

The structure of FORTRAN and ALGOL-like languages. Study of their implementation.

3733 DATA ACQUISITION

(3-0) 3 hours credit. Prerequisite: MAT 2723.

Analog to digital and digital to analog conversion. Sampling.

3743 REAL-TIME PROCESS CONTROL

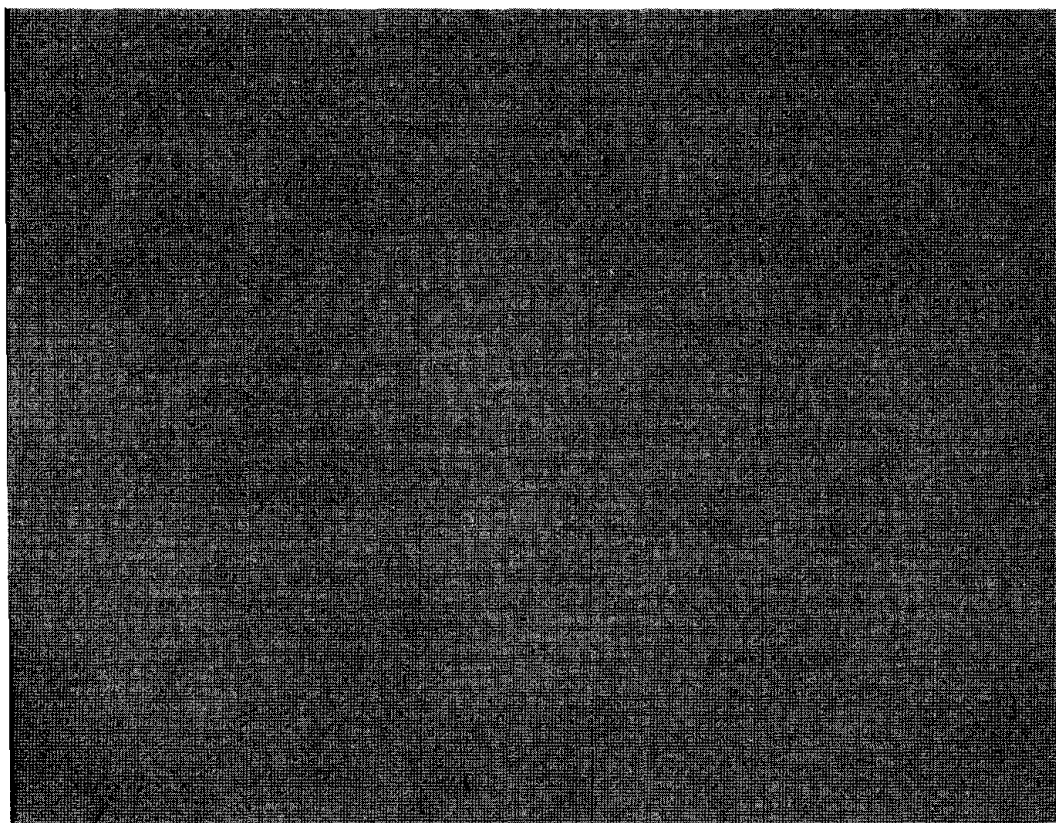
(3-0) 3 hours credit. Prerequisite: MAT 3733.

Real-time programming for process control.

- 3753 ANALOG COMPUTING**
 (3-0) 3 hours credit. Prerequisite: MAT 2123 or MAT 3613 and PHY 3704.
 Introduction to the principles of analog computers, operational amplifiers, feedback and scaling.
- 3763 HYBRID COMPUTING**
 (3-0) 3 hours credit. Prerequisite: MAT 3753.
 Basics of hybrid computing.
- 4213 REAL ANALYSIS I**
 (3-0) 3 hours credit. Prerequisite: MAT 3213.
 An in-depth study of the calculus of functions of several variables. Topics may include: The Bernstein Polynomial Theorem, Stone-Weierstrass Theorem and the derivative in \mathbb{R}_p .
- 4223 REAL ANALYSIS II**
 (3-0) 3 hours credit. Prerequisite: MAT 4413.
 The Riemann-Stieltjes integral and related topics which may include: the bounded convergence theorem, the Riesz representation theorem and the main theorems of integral calculus in \mathbb{R} and \mathbb{R}_p .
- 4233 MODERN ABSTRACT ALGEBRA I**
 (3-0) 3 hours credit. Prerequisite: MAT 2223.
 An in-depth study of groups and rings.
- 4243 MODERN ABSTRACT ALGEBRA II**
 (3-0) 3 hours credit. Prerequisite: MAT 4233.
 Topics in field theory and vector spaces.
- 4253 NUMBER THEORY**
 (3-0) 3 hours credit. Prerequisite: MAT 2213.
 The theory of primes, congruences and related topics.
- 4263 GEOMETRY**
 (3-0) 3 hours credit. Prerequisite: MAT 2213.
 Topics in projective, affine and non-Euclidean geometry.
- 4273 TOPOLOGY**
 (3-0) 3 hours credit. Prerequisite: MAT 2213.
 Set theory including cardinal and ordinal numbers. Topological properties of the real line and metric spaces.
- 4513 MULTIVARIATE STATISTICS**
 (3-0) 3 hours credit. Prerequisites: MAT 3263 and MAT 3533.
 Theory and methodology of multivariate statistics: the multinormal and related sampling distributions; tests of hypothesis; multiple and partial correlation; linear hypothesis; principal components and factor analysis.
- 4523 APPLIED STATISTICS II**
 (3-0) 3 hours credit. Prerequisite: MAT 3533.
 Simple linear regression, one-way analysis of variance; bivariate normal distribution and correlation; fixed random and mixed model anova; linear and non-linear regression.

- 4533 NON-PARAMETRIC STATISTICAL METHODS**
 (3-0) 3 hours credit. Prerequisite: MAT 3533.
 A survey of non-parametric methods; order statistics; test based on runs; goodness of fit tests; one-sample, two-sample and paired sample techniques; location and scale tests.
- 4543 INTRODUCTION TO STOCHASTIC PROCESSES**
 (3-0) 3 hours credit. Prerequisite: MAT 3523.
 An introduction to the theory and applications of stochastic processes with emphasis on Markov processes.
- 4613 OPERATIONS RESEARCH I**
 (3-0) 3 hours credit. Prerequisites: MAT 3513 and MAT 1723.
 Introduction to analytical methods of operations research. Mathematical programming, dynamic programming, game theory and network flow theory.
- 4623 OPERATIONS RESEARCH II**
 (3-0) 3 hours credit. Prerequisite: MAT 4613.
 Introduction to stochastic models in operations research.
- 4713 COMPILERS AND ASSEMBLERS**
 (3-0) 3 hours credit. Prerequisite: MAT 3723.
 Design, construction and implementation of assemblers and compilers.
- 4723 COMPUTERS AND PROGRAMMING SYSTEMS**
 (3-0) 3 hours credit. Prerequisite: MAT 4713.
 Loaders, job sequencers and supervisory systems.
- 4733 SEQUENTIAL MACHINES**
 (3-0) 3 hours credit. Prerequisite: MAT 2713.
 Theory of finite-state machines. Minimization and decomposition problems with applications to digital computers.
- 4743 FORMAL LANGUAGES AND AUTOMATA**
 (3-0) 3 hours credit. Prerequisite: MAT 4733.
 Theory of formal languages and applications to programming languages.

Appendix A



RULES AND REGULATIONS FOR DETERMINING RESIDENCE STATUS

A student entering The University of Texas at San Antonio for the first time, or a student re-entering The University after an absence of more than one semester, should carefully read the rules governing the determination of residence, as stated below, so that he may be prepared, in the event of his classification as a nonresident of Texas, to pay the required tuition fee. This fee must be paid at the time of registration.

Chapter 54, Subtitle A, Title 3 of the Texas Education Code sets forth the regulations governing nonresident students in institutions of senior collegiate rank, effective January 20, 1973.

I. Minors*

Statute: Section 54.052(b) An individual, under twenty-one (21) years of age, who is living away from his family, and whose family resides in another state or has not resided in Texas for the 12-month period immediately preceding the date of registration shall be classified as a nonresident student;

Section 54.052(c) An individual, twenty-one (21) years of age or under, whose family has not resided in Texas for the 12-month period immediately preceding the date of registration shall be classified as a nonresident student regardless of whether he has become the legal ward of residents of Texas or has been adopted by residents of Texas while he is attending an educational institution in Texas, or within a 12-month period before his attendance, or under circumstances indicating that the guardianship or adoption was for the purpose of obtaining status as a resident student;

Section 54.055 An individual, 21 years of age or under, whose parents were formerly residents of Texas is entitled to pay the resident tuition fee following the parents' change of legal residence to another state, as long as the individual remains continuously enrolled in a regular session in a state-supported institution of higher education.

*In accordance with provisions of Senate Bill 123, 63rd Texas Legislature, effective August 27, 1973, and with Attorney General's Opinion H-82, August 13, 1973, any reference to age "twenty-one" in these *Rules and Regulations for Determining Residency Status* should be interpreted to mean age "eighteen."

A. Death or Divorce of Parents

The legal residence of a minor under 21 years of age is usually that of the father. Upon the death of the father, the legal residence of the minor is that of the mother. Upon divorce or legal separation of the parents, the residence of the minor is determined by the residence of the parent with whom the minor is making his home at the time of registration.

B. Custody by Court Order

If the custody of the minor has been granted by court order (e.g., divorce decree, child custody action, guardianship or adoption proceedings) to some person other than the parent, the residence of that person shall control; provided, however, that such grant of custody was not ordered during or within a year prior to the minor's enrollment in an institution of higher education (defined as any public junior college, public senior college or university, medical or dental unit or other agency of higher education) and was granted under circumstances indicating that such guardianship was not for the purpose of obtaining status as a resident student.

If the minor is not making his home with either parent, and there is no court-appointed guardian, the residence of the parent with whom the minor last resided shall be presumed to control. If, however, the minor has made his home with, and has been dependent upon a grandparent for more than a year prior to enrollment in an institution of higher education, the residence of that natural guardian shall be regarded as his residence. The residence of a person other than a parent or a natural or legal guardian, who may furnish funds for payment of tuition, fees, or living expenses shall in no way affect the residence classification of a minor.

C. Abandoned Child

In the case of an abandoned child, the residence of a person who has stood *in loco parentis* for a period of time may determine the residence of such abandoned child. The fact of abandonment must be clearly established and must not have been for the pur-

pose of affecting the residence of the minor, and the minor must have actually resided in the home of such person for two years immediately prior to registering in an institution of higher education in Texas and must have received substantially all of his support from such person. In the event that the *in loco parentis* relationship has not existed for the full two year period, a lesser period of time is acceptable in unusual hardship cases, such as death of both parents.

D. Orphan

An orphan who has lived for longer than a year in an established orphan's home in Texas operated by a fraternal, religious, or civic organization and has been graduated from the orphan's home shall be considered a resident of Texas provided he remains in Texas from the time of such graduation until he enters an institution of higher education.

E. Emancipated Child

Under certain circumstances, a minor may become emancipated or freed from parental control. If the minor's parents have ceased to exercise parental control and responsibility, if the minor is responsible for all of his or her own decisions and affairs, and if the minor is financially independent of parents, the minor may establish emancipation. A minor is financially independent if he or she receives less than \$600 a year from parents, and if the parents do not claim the minor as a dependent. If emancipation is clearly proven, the residence classification of the minor is determined by the residence of the minor rather than the residence of the parents, and after 12 months in Texas under such circumstances, the minor may be classified as a resident, if he or she otherwise satisfies the statutory requirements applicable to those over 21 (e.g., see presumption arising from residence while a student). Proof of emancipation is the responsibility of the minor.

F. Married Minors

A minor who is married shall have the power and capacity of a single person of full age and is entitled to select his or her own place of legal residence. After 12 months' residence in Texas under such circumstances, the minor may be classified as a resident if he or she otherwise satisfies the statutory requirements applicable to those over 21 years of age. The residence classification for tuition purposes of a nonresident who marries a Texas resident shall be governed by the provisions of the tuition statute (Texas Education Code, S 54.056) and of these rules and regulations as hereinafter set out.

G. Minors Whose Parents Moved to Another State or Foreign Country

If the parents of a minor who is enrolled as a resident student move their legal residence to another state or foreign country, on or after August 15, 1971, the minor shall be classified as a nonresident at all subsequent registration periods. Under the provisions of Section 54.055, the minor will be entitled to pay the resident tuition fee as long as he remains continuously enrolled in a regular session in a public institution of higher education. The minor student must re-enroll for the next available regular semester immediately following the parents' change of legal residence to another state.

If the parents of a minor move to another state or foreign country, or reside outside the state or in a foreign country at the time of enrolling in an institution of higher education, but claim legal residence in Texas, conclusive evidence must be presented that the father is still claiming legal residence in the State of Texas and that he has the present intent to return to the state. A certificate from the employer of the parents that the move outside the state was temporary and that there are definite plans to return the parents to Texas by a determinable future date may be considered in this connection.

If a minor whose parents have moved their legal residence to another state or foreign country resides in Texas for 12 consecutive months following his 21st birthday and by his actions clearly indicates that his intention is to establish permanent residence in the state, he may be classified as a resident student effective

with the beginning of the term or semester following his 22nd* birthday despite the fact that his entire period of residence in Texas has been as a student.

When the parents of a minor who have established their legal residence in another state or foreign country return and reestablish their legal residence in Texas, the minor must be classified as a nonresident until the first registration after the parents have resided in the state for a 12-month period following their return.

II. Residence of Individuals Over Twenty-One

Statute: Section 54.052 (d) An individual, twenty-one (21) years of age or over, who has come from outside Texas and who is gainfully employed in Texas for a 12-month period immediately preceding registration in an educational institution shall be classified as a resident student as long as he continues to maintain a legal residence in Texas; and

Section 54.052 (e) An individual, twenty-one (21) years of age or over, who resides out of the state or who has come from outside Texas and who registers in an educational institution before having resided in Texas for a 12-month period shall be classified as a nonresident student.

Section 54.054 A nonresident student classification is presumed to be correct as long as the residence of the individual in the state is primarily for the purpose of attending an educational institution. After residing in Texas for at least twelve (12) months, a nonresident student may be reclassified as a resident student as provided in the rules and regulations adopted by the Coordinating Board, Texas College and University System. Any individual reclassified as a resident student is entitled to pay the tuition fee for a resident of Texas at any subsequent registration as long as he continues to maintain his legal residence in Texas.

*The reference to the 22nd birthday should be interpreted as the 19th birthday.

Establishment of Residence

Any individual 21 years of age or over who moves into the state and who is gainfully employed within the state for a period of 12 months prior to enrolling in an educational institution (defined as any institution of higher education, public or private, above the high school level), is entitled to classification as a resident. If such 12 months' residence, however, can be shown not to have been for the purpose of establishing legal residence in the state but to have been for some other purpose, the individual is not entitled to be classified as a resident. Any student registering in an educational institution prior to having resided in the state for 12 months immediately preceding registration shall be classified as a nonresident for tuition purposes.

A person classified as a nonresident student upon his first enrollment in an institution of higher education is presumed to be a nonresident for the period during which he continues as a student. If such nonresident student withdraws from school and resides in the state while gainfully employed for a period of 12 months, upon re-entry into an institution of higher education he will be entitled to be reclassified as a resident for tuition purposes. Accumulations of summer and other vacation periods do not satisfy this requirement. A student is not entitled to reclassification after a residence in the state for 12 months merely on the basis of his or his wife's employment, registration to vote, registration of a motor vehicle and payment of personal property taxes thereon, or the securing of a Texas driver's license. The presumption of a "nonresident" is not a conclusive presumption, however, and other facts may be considered to determine if the presumption has been overcome. Material to this determination is business or personal facts or actions unequivocally indicative of a fixed intention to reside permanently in the state. Such facts may include, but are not limited to the length of residence and full-time employment prior to registering in the institution, the fact of full-time employment and the nature of such employment (regular industrial, business or professional employment as distinguished from student-type employment) while a student, purchase of a homestead with substantial down-payment, dependency upon a parent or guardian who has resided in Texas for at least 12 months immediately preceding the student's registration, and marriage to a resident of Texas. All of these facts are weighed in the light of the fact that a

student's residence while in school is primarily for the purpose of education and not to establish residence, and that decisions of an individual as to residence are generally made after the completion of an education and not before.

III. Married Students

Statute: Section 54.056 A nonresident who marries and remains married to a resident of Texas, classified as such under this Act at the time of the marriage and at the time the nonresident registers, is entitled to pay the resident tuition fee regardless of the length of time he has lived in Texas, and any student who is a resident of Texas who marries a nonresident is entitled to pay the resident tuition fee as long as he does not adopt the legal residence of the spouse in another state.

Nonresident Who Marries a Resident of Texas

The nonresident male or female student who marries a resident of Texas is entitled to pay the resident tuition at the registration period next following the date of marriage upon submission of evidence of such marriage and of the spouse's legal residence in Texas. Such marriage evidence is a certified copy of the marriage license or other certified documentary evidence of marriage as filed with the county clerk. The legal residence of a husband and wife are normally presumed to be the same; however, it is possible for either the husband or wife to establish a residence different from the other spouse. In such a situation, the normal standards are followed. (See II.) In the event a nonresident student marries a resident of Texas and subsequently is divorced within 12 months, such nonresident student shall be classified as a nonresident for all enrollment periods subsequent to the date of such divorce; provided, however, the nonresident may establish Texas residence pursuant to normal standards. (See II.)

IV. Military Personnel and Veterans

Statute: Section 54.058 (a) Military personnel are classified as provided by this section in the following manner:

(b) An officer, enlisted man or women, selectee or draftee of the Army, Army Reserve, Army National Guard, Air National Guard, Texas State Guard, Air Force, Air Force Reserve, Navy, Navy Reserve, Marine Corps, Marine Corps Reserve, Coast Guard, or Coast Guard Reserve of the United States, who is assigned to duty in Texas is entitled to register himself, his spouse, and their children in a state institution of higher education by paying the tuition fee and other fees or charges required of Texas residents, without regard to the length of time he has been assigned to duty or resided within the state. However, out-of-state Army National Guard or Air National Guard members attending training with Texas Army or Air National Guard members under National Guard Bureau regulations may not be exempted from nonresident tuition by virtue of that training status nor may out-of-state Army, Air Force, Navy, Marine Corps, or Coast Guard Reserves training with units in Texas under similar regulations be exempted from nonresident tuition by virtue of such training status. It is the intent of the legislature that only those members of the Army or Air National Guard, Texas State Guard, or other reserve forces mentioned above to be exempted from the nonresident tuition fee and other fees and charges only when they become members of Texas units of the military organizations mentioned above.

(c) As long as they reside continuously in Texas, the spouse and children of a member of the Armed Forces of the United States who has been assigned to duty elsewhere immediately following assignment to duty in Texas are entitled to pay the tuition fees and other fees or charges provided for Texas residents.

*(d) If nonresident military personnel are attending an institution of higher education under a contract between the institution and any branch of the Armed Forces of the United States, in which the tuition of the member of the military is paid in full by the United States Government, the student shall pay the nonresident tuition fee;**

(e) A Texas institution of higher education may charge to the United States Government the nonresident tuition fee for a vet-

*Subparagraph (d), Section 54.058 has been repealed by House Bill 736, 63rd Legislature, effective August 27, 1973.

eran enrolled under the provisions of a Federal law or regulation authorizing educational or training benefits for veterans;

(f) The spouse and children of a member of the Armed Forces of the United States who dies or is killed are entitled to pay the resident tuition fee, if the wife and children become residents of Texas within 60 days of the date of death; and

(g) If a member of the Armed Forces of the United States is stationed outside Texas and his spouse and children establish residence in Texas by residing in Texas and by filing with the Texas institution of higher education at which they plan to register a letter of intent to establish residence in Texas, the institution of higher education shall permit the spouse and children to pay the tuition, fees and other charges provided for Texas residents without regard to length of time that they have resided within the State.

A. Certification of Assignment to Duty in Texas

Subsection (b) provides that military personnel assigned to duty within the State of Texas, their husband or wife as the case may be and their dependent children, shall be entitled to pay the same tuition as a resident of Texas regardless of the length of their physical presence in the state. To be entitled to pay the resident tuition fees, such military personnel shall submit at the time of each registration a statement from his commanding officer or personnel officer certifying that he is then assigned to duty in Texas and that same will be in effect at the time of such registration in an institution of higher education. This subsection also provides that a nonresident member of an out-of-state National Guard unit who is temporarily training with a Texas National Guard unit will not be entitled to pay the resident tuition.

B. Spouse and Children of Member of Armed Services

Subsection (c) provides that the spouse and dependent children of a member of the armed forces assigned to duty outside the State of Texas immediately after assignment in Texas may be entitled to pay the resident tuition as long as they reside continuously in Texas.

Subsection (g) provides that the spouse and dependent children of a member of the armed forces who is assigned to duty outside the State of Texas and sends his family to the state of Texas may be entitled to pay the resident tuition if they file with the institution of higher education at which the student intends to register a letter of intent, an affidavit or other evidence satisfactory to the institution stating that they intend to become permanent residents of Texas.

Subsection (f) provides that a member of the immediate family (which shall include spouse or dependent children) of a member of the armed forces who dies or is killed in action while in military service may qualify to pay the resident tuition if they become residents of Texas within 60 days of the date of death. To qualify under this provision, the student shall submit to the institution of higher education satisfactory evidence establishing the date of death and residence in Texas.

The military personnel spouse and dependent children enumerated in (b), (c), (f), and (g) are classified as nonresidents but shall be entitled to pay the resident tuition regardless of their length of residence in Texas if they comply with the provisions of the statute and these rules and regulations.

C. Nonresidents Attending College Under Federal Benefits Programs for Veterans

Subsection (e) provides that the institution of higher education may charge the nonresident tuition fee for a nonresident veteran to the United States Government under the provisions of any federal law or regulation authorizing educational or training benefits for veterans.

D. Legal Residence of Person in Military Service

A person in military service is presumed to maintain during his entire period of active service the same legal residence which was in effect at the time he entered military service. A person stationed in a state on military service is presumed not to establish a legal residence in that state because his presence is not voluntary but under military orders. It is possible for a member of the military service to abandon his domicile of original entry

into the service and to select another, but to show establishment of a new domicile during the term of active service, there must be clear and unequivocal proof of such intent. An extended period of service alone is not sufficient. The purchase of residential property is not conclusive evidence unless coupled with other facts indicating an intent to put down roots in the community and to reside there after termination of military service. Evidence which will be considered in determining this requisite intent includes, but is not limited to a substantial investment in a residence and the claiming of a homestead exemption thereon, registration to vote, and voting in local elections, registration of an automobile in Texas and payment of personal property taxes thereon, obtaining a Texas driver's license, maintaining checking accounts, savings accounts, and safety deposit boxes in Texas banks, existence of wills or other legal documents indicating residence in Texas, change of home-of-record and designation of Texas as the place of legal residence for income tax purposes on military personnel records, business transactions or activities not normally engaged in by military personnel, membership in professional or other state organizations, and marriage to a resident of Texas. Purchase of property during terminal years of military service preceding retirement generally is given greater weight than a similar purchase made prior to such terminal period.

E. Residence Classification of Veterans Upon Separation from Military Service

A person who enrolls in an institution of higher education following separation from military service must be classified as a nonresident student unless, (1) the individual was a legal resident of Texas at the time of entry into military service and has not relinquished that residence, (2) the individual can prove that during military service he or she has, in fact, established a bona fide, legal residence in Texas at a time at least 12 months prior to registration, or (3) the individual has resided in Texas other than as a student for 12 months prior to registration and subsequent to discharge from service. The nonresident classification is a presumption, however, which can be overcome pursuant to the guidelines and standards for establishing Texas residence. (See II.)

V. Employees of Institutions of Higher Education Other Than Students

Statute: Section 54.059 A teacher, professor, or other employees of a Texas institution of higher education is entitled to register himself, his spouse, and their children in a state institution of higher education by paying the tuition fee and other fees or charges required for Texas residents without regard to the length of time he has resided in Texas. A teacher, professor, or other employee of a Texas institution of higher education is any person employed at least one-half time on a regular monthly salary basis by a state institution of higher education.

A person employed at least half-time on a regular monthly salary basis (not an hourly employee) by any public institution of higher education, with an effective date of employment on the 12th class day of a regular semester or the 4th class day of a summer term, may pay the same tuition as a resident of Texas for self, husband or wife as the case may be and their children, regardless of the length of residence in the state. To be entitled to pay the resident tuition fees such employee must submit prior to the time of each registration a statement certifying employment from the Director of Personnel or a designated representative of the institution of higher education by which he is employed.

VI. Student Employees

Statute: Section 54.051(o) A teaching assistant, research assistant, or other student employee of any institution covered by this section is entitled to register himself, his spouse, and their children in a state institution of higher education by paying the tuition fees and other fees or charges required for Texas residents, without regard to the length of time he has resided in Texas; provided that said student employee is employed at least one-half time in a position which relates to his degree program under rules and regulations established by the employer institution. This exemption shall continue for students employed two consecutive semesters through the summer session following such employment if the institution is unable to provide employment and, as determined under standards established by the institution, if the employee has satisfactorily completed his employment.

A student employed at least half-time by any public institution of higher education in a position which relates to his degree program, with an effective date of employment on or before the 12th class day of a regular semester, or the 4th class day of a summer term, may pay the same tuition as a resident of Texas for himself, his husband or wife as the case may be, and their children regardless of the length of residence in the state. In order to be eligible under this provision, the student employee's position must relate academically to the degree program he is pursuing. That is, it must relate to his academic program educationally and intellectually and cannot merely be a means of support in an unrelated field or activity. In order to insure consistent and equitable interpretation and application of this section, the chief administrative officers may not delegate the determination in these cases below the dean's level. If a student is employed by an institution of higher education for consecutive Fall and Spring semesters and he was further eligible to pay the tuition charged to Texas residents during those Fall and Spring semesters because of the provisions of this subsection, then the student may continue to pay the resident tuition rate during the summer session following the Spring employment if the institution is unable to provide employment and if the student has satisfactorily completed his employment.

VII. Competitive Scholarships

Statute: Section 54.051(p) A nonresident student holding a competitive scholarship of at least \$200 for the academic year or summer for which he is enrolled is entitled to pay the fees and charges required of Texas residents without regard to the length of time he has resided in Texas, provided that he must compete with other students, including Texas residents, for the scholarship and that the scholarship must be awarded by a scholarship committee officially recognized by the administration of the institution of higher education.

To be eligible under this provision a nonresident student must receive a scholarship of at least \$200 awarded to him in competition with other students, including Texas residents. The scholarship must be awarded by a scholarship committee recognized by the chief administrative officer of the institution, and the funds must flow through the institution rather than being awarded di-

rectly to the individual by an outside person, group, or agency. The chief administrative officers shall develop their own institutional criteria for officially recognizing a scholarship committee and shall not delegate the responsibility for officially recognizing such scholarship committees below the vice-presidential level.

A scholarship awarded under the scholarship fund for needy students created by the legislature from tuition revenues will not qualify a nonresident student under this section.

If a nonresident student obtains a competitive scholarship of \$200 or more as defined above, he may pay the same tuition as a resident of Texas during the registration period in which the scholarship is in effect. The student must present a statement from the student financial aid officer certifying that such scholarship will be in effect at the time of registration.

VIII. Citizens of Any Country Other Than the United States of America

Statute: Section 54.057 An alien who is living in this country under a visa permitting permanent residence or who has filed with the proper Federal immigration authorities a declaration of intention to become a citizen has the same privilege of qualifying for resident status for fee purposes under this Act as has a citizen of the United States. A resident alien residing in a junior college district located immediately adjacent to Texas boundary lines shall be charged the resident tuition by that junior college.

An alien living in the United States under a visa permitting permanent residence, or one who has filed with the proper Federal authorities a declaration of intention to become a citizen, has the same privilege of qualifying for Texas resident status for tuition purposes as has a citizen of the United States.

IX. Student Responsibilities

A. Student Responsibility to Register Under Proper Classification

The responsibility of registering under the proper residence classification is that of the student, and if there is any question

of his right to classification as a resident of Texas, it is his obligation, prior to or at the time of his registration, to raise the question with the administrative officials of the institution in which he is registering and have such officially determined.

B. Notification Upon Becoming a Nonresident

Every student who is classified as a resident student but who becomes a nonresident at any time by virtue of a change of legal residence by his own action or by the person controlling his domicile is required to notify the proper administrative officials of his institution at once.

X. Official Change of Residence Status

A. Application for Reclassification

Every student classified as a nonresident student shall be considered to retain that status until such time as he shall have made written application for reclassification in the form prescribed by the institution and shall have been officially reclassified in writing as a resident of Texas by the proper administrative officers of the institution.

B. Reclassification as a Nonresident

Every person who has been classified as a resident of Texas shall be reclassified as a nonresident student whenever he shall report, or there is found to exist, circumstances indicating a change in legal residence to another state. If any student who has been classified as a resident of Texas shall be found to have been erroneously so classified, he shall be reclassified as a nonresident and shall be required to pay the difference between the resident and nonresident fees for such semesters in which he was so erroneously classified. In addition, he shall be required to pay back all monies borrowed from the Texas Opportunity Plan Fund.

C. Reclassification as a Resident

If any student has been erroneously classified as a nonresident student and subsequently proves to the satisfaction of the appropriate officials of an institution of higher education that he should have been classified as a resident student, he shall be reclassified as a resident of Texas and shall be entitled to a refund of the difference between the resident and nonresident fees for the semester in which he was so erroneously classified.

XI. Penalties

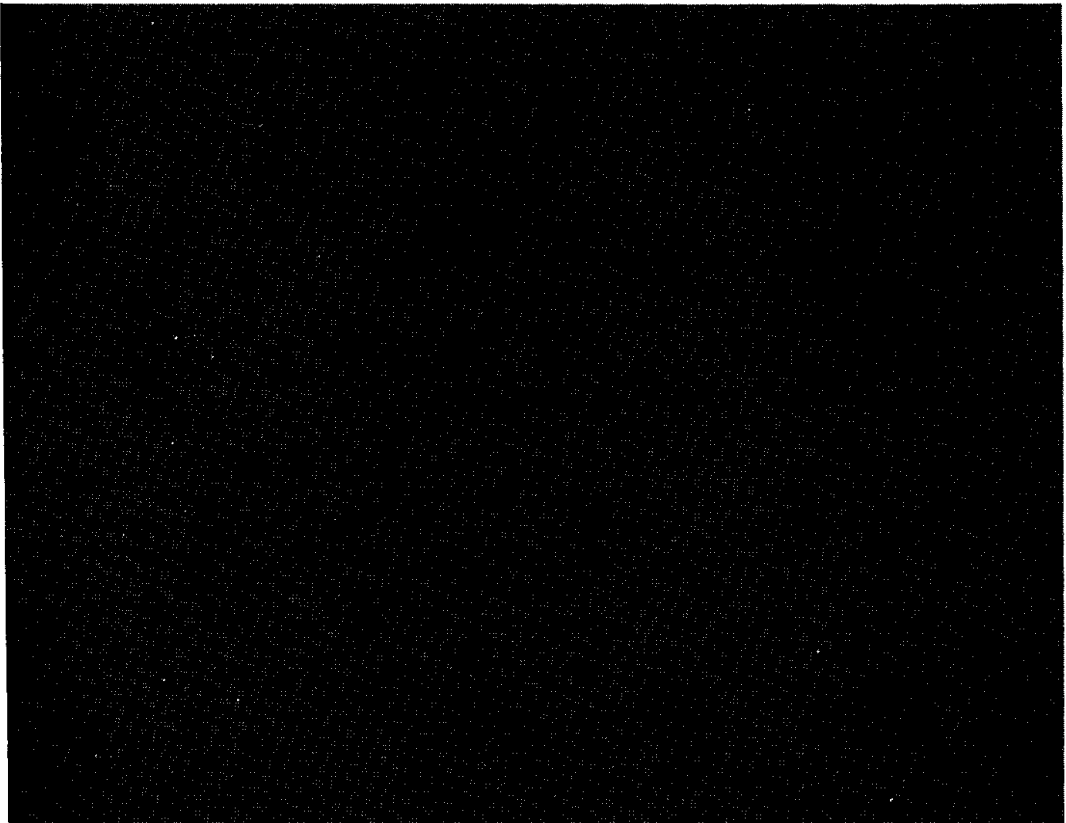
Statute: Section 54.053 The governing board of each institution required by this Act to charge a nonresident tuition or registration fee is subject to the rules, regulations, and interpretations issued by the Coordinating Board, Texas College and University System, for the administration of the nonresident tuition provisions of this Act. The rules, regulations, and interpretations promulgated by the Coordinating Board shall be furnished to the presidents or administrative heads of all Texas public senior and junior colleges and universities.

Section 54.061 The governing board of an institution of higher education may assess and collect from each nonresident student who fails to comply with the rules and regulations of the boards concerning nonresident fees a penalty not to exceed \$10 a semester.

Student Compliance with Institutional Rules and Regulations

Each institution has been authorized by statute to assess and collect from each nonresident student failing to comply with the provisions of the tuition statute and with these interpretations concerning nonresident fees a penalty not to exceed \$10.00 a semester. In addition, if a student has obtained residence classification by virtue of deliberate concealment of facts, or misrepresentation of fact, he may be subject to appropriate disciplinary action, in accordance with the rules and regulations that may be adopted by the governing boards of the respective institutions of higher education.

Appendix B



PREPROFESSIONAL COURSES OF STUDY IN THE HEALTH FIELDS

The University of Texas at San Antonio does not offer specific premedical, predental, or prenursing degree programs; rather students select courses of study in preparation for admission to medical, dental, and nursing schools in terms of individual preferences and in terms of specific program requirements of individual professional schools.

Preparation for medical school. In general, medical school admission committees do not state a preference about an undergraduate major field, leaving the student free to choose, after conferences with his or her Advisor, a degree program suited to the student's special abilities and interests.

Admission requirements for The University of Texas Medical Schools are representative of admission requirements for most other American medical schools. A minimum of 90 semester hours of college work is required including six semester hours of college English; two years of college biology (one year may be completed by examination for advanced standing, but one year must be completed in residence at a college and must include formal laboratory work); one-half year of college calculus; one year of college physics for science majors; two years of college chemistry (one year of general chemistry and one year of organic chemistry as required for science majors, each year to include the corresponding laboratory experience). A grade of "C" or better is required in these courses. All students are required to take the Medical College Admissions Test (MCAT). For specific requirements for admission to other medical schools, students should read the current edition of *Admission Requirements of Medical Colleges*, available in the Office of the Division of Allied Health and Life Sciences at UT San Antonio.

Preparation for dental school. Admission requirements for The University of Texas Dental Schools are also representative of admission requirements for most other American dental schools. A minimum of 60 semester hours of successfully completed college credit is required. These requirements are as follows: six semester hours of college English; two years of biology (one year may be completed by examination for advanced standing, but one year must be completed in residence at a college and must include formal laboratory work); one year of physics

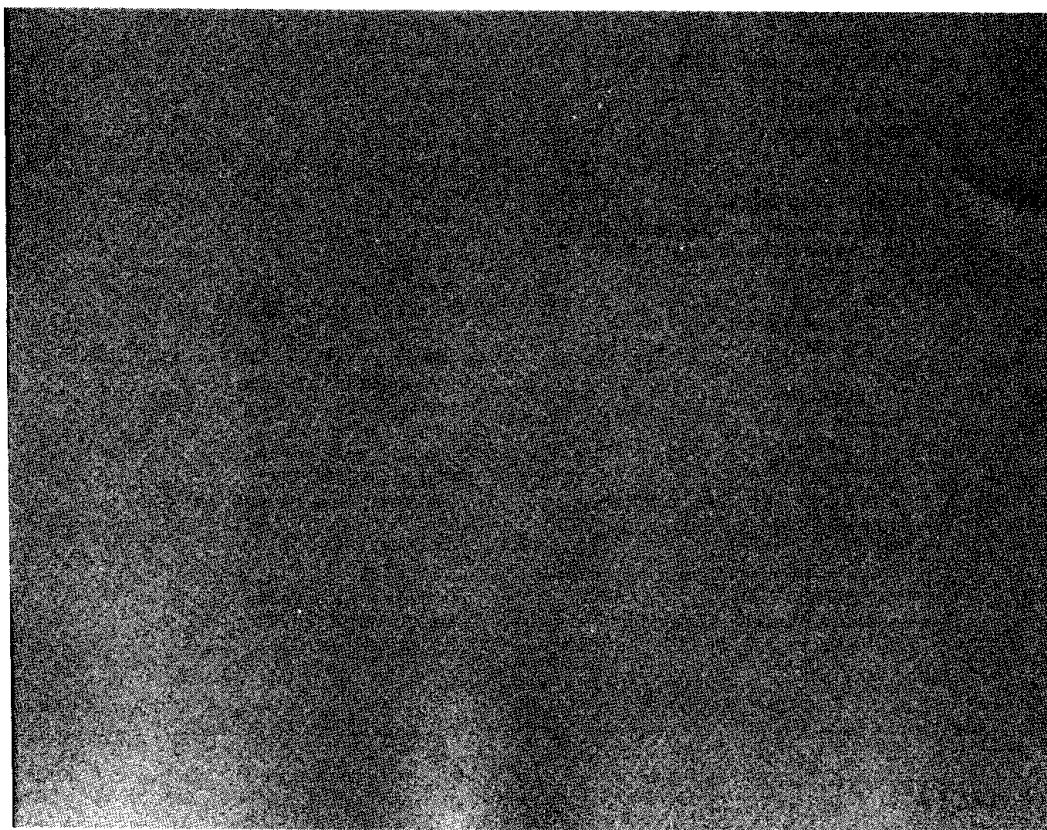
as required for science majors; two years of chemistry (one year of general chemistry, and one year of organic chemistry as required for science majors, each year to include the corresponding laboratory experience). All students are required to take the Dental Aptitude Test (DAT). For specific requirements for admission to other dental schools the student should read the current edition of *Admission Requirements for American Dental Schools* and the catalogs of the various dental schools, also available in the office of the Division of Allied Health and Life Sciences.

Preparation for nursing school. Admission requirements for The University of Texas System School of Nursing are likewise representative of admission requirements for most other American nursing schools. A minimum of 60 semester hours of college work from an accredited college or university is required, including six semester hours of college English, nine hours in behavioral sciences, twelve hours in history and government, three hours in statistics, and twelve hours in natural sciences, which must include anatomy, physiology, and microbiology. One or more courses in chemistry, an introductory course in biology, and a course in nutrition also would be desirable. An overall minimum gradepoint average of 2.0 and at least 2.0 in all required courses is necessary. For specific requirements for admission to other nursing schools, students should contact the School of Nursing in question.

It should be noted that the semester hour and grade requirements for medicine, dentistry, and nursing are minimum requirements and that satisfying these requirements does not assure admission to any of these schools since applications for admission far exceed spaces available.

Additional information on preprofessional courses of study can be obtained at the Office of the Division of Allied Health and Life Sciences and through the Chairman of the Health Related Professions Advisory Committee at UT San Antonio.

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DIRECTORY FOR CORRESPONDENCE

Requests for information should be directed to the offices shown below. The University's address is: The University of Texas at San Antonio, 4242 Piedras Drive East, Suite 250, San Antonio, Texas 78285. The telephone number is (512) 732-2141. Offices and classrooms of the Division of Continuing Education are located in the Institute of Texan Cultures in the HemisFair Plaza in downtown San Antonio. The telephone number for the Division is (512) 227-9146.

Academic Advisement

Declared majors College Deans

Undeclared majors Dean of Students

Academic Degree Programs

and Courses College Deans

Admission

(Undergraduate and graduate) Director of Admissions

Changes of Enrollment Registrar

Continuing Education Dean of Continuing Education

Credit by Examination

and Placement Exams Dean of Students

Degree Application Registrar

Financial Aids, Loans or

Scholarships Director of Student Financial Aids

Financial Matters Director of Accounting

General Information Director of Admissions

International Students Director of Admissions

Placement Service

Teacher Assistant Dean for Teacher
Certification and Placement

Non-teacher Dean of Students

Refunds Director of Accounting

Registration Registrar

Residency Registrar

Student Employment Dean of Students

Student Services Dean of Students

Teacher Certification Program Assistant Dean for Teacher
Certification and Placement

Transfer of Credit Director of Admissions

Transcripts Registrar

Veterans Affairs Registrar

Withdrawal from University Registrar

