

Bulletin
of
The University of Texas
at
San Antonio

Graduate Catalog 1975-77

Graduate 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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PREFACE

. . . En la Historia, en la vida, las posibilidades no se realizan por sí mismas, automáticamente; es preciso que alguien, con sus manos y su mente, con su esfuerzo y con su angustia, les fabrique su realidad. Historia y vida son por eso un perpetuo, un continuo hacer. Nuestra vida no nos es dada ya hecha, sino que vivir es, en su raíz misma, un estar nosotros haciendo nuestra vida. Y esto lo es siempre, en cada minuto: nada nos es absolutamente regalado; todo, aun lo que parece más pasivo, tenemos que hacerlo.

JOSÉ ORTEGA Y GASSET, *Misión de la Universidad*.
1930

Scholarship depends upon a relation to the whole. Individual disciplines are meaningless apart from their relation to the whole of knowledge. Therefore, it is the intention of the university to impart to its students a sense of the unity both of his particular field of study and of all knowledge.

KARL JASPERS, *The Idea of the University*
1959

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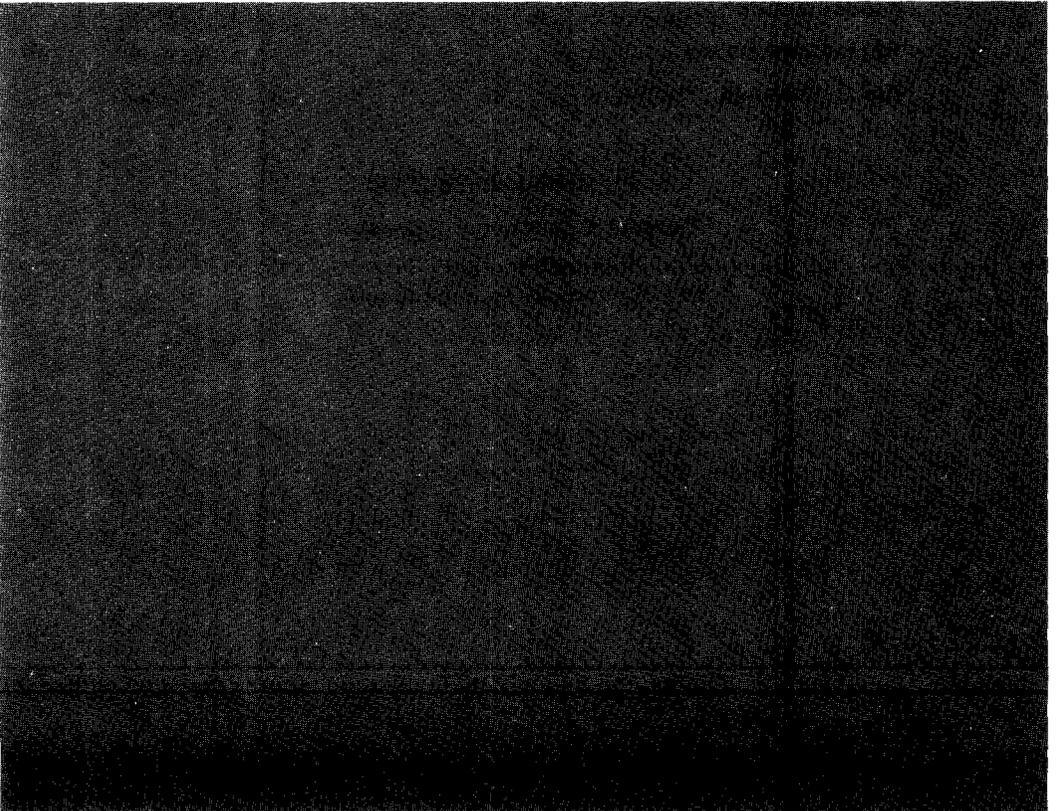
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I. General Information



THE UNIVERSITY OF TEXAS SYSTEM
BOARD OF REGENTS

ALLAN SHIVERS, *Chairman*

DAN C. WILLIAMS, *Vice-Chairman*

BETTY ANNE THEDFORD, *Secretary*

TERMS EXPIRE JANUARY, 1977

MRS. LYNDON B. JOHNSON Stonewall
A. G. MCNEESE, JR. Houston
JOE T. NELSON, M.D. Weatherford

TERMS EXPIRE JANUARY, 1979

JAMES E. BAUERLE, D.D.S. San Antonio
EDWARD CLARK Austin
ALLAN SHIVERS Austin

TERMS EXPIRE JANUARY, 1981

THOMAS H. LAW Fort Worth
WALTER G. STERLING Houston
DAN C. WILLIAMS Dallas

SYSTEM ADMINISTRATION

CHARLES A. LEMAISTRE, *Chancellor*

E. D. WALKER

Deputy Chancellor for Administration

DIVISION DIRECTORS

COLLEGE OF BUSINESS

Leslie L. McNelis	Division of Accounting and Business Data Systems
Dale B. Truett	Division of Economics and Finance
William D. Litzinger	Division of Management

COLLEGE OF FINE AND APPLIED ARTS

Leonard Lehrer	Division of Art and Design
Gordon H. Lamb	Division of Music

COLLEGE OF HUMANITIES AND SOCIAL SCIENCES

Alan E. Craven	Division of English, Classics, and Philosophy
Ricardo F. Benavides	Division of Foreign Languages
Thomas C. Greaves	Division of Social Sciences

COLLEGE OF MULTIDISCIPLINARY STUDIES

Albar Peña	Division of Bicultural-Bilingual Studies
Robert T. Alciatore	Division of Education
Chia Shun Shih	Division of Environmental Studies
Tomás Rivera	Division of Special Programs

COLLEGE OF SCIENCES AND MATHEMATICS

Wayne E. Magee	Division of Allied Health and Life Sciences
B. S. Thyagarajan	Division of Earth and Physical Sciences
Stanley G. Wayment	Division of Mathematics, Computer Science, and Systems Design

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. Students receive degrees at the close of each semester and at the close of the second session of a summer session.

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.
October 31	Friday. Deadline for submission of preliminary draft of thesis to Advisor.
November 24	Monday. Last day to drop a course.
November 25	Tuesday. Deadline for submission of thesis to Advisor and committee.
November 27-30	Thursday-Saturday. Thanksgiving Holidays.
December 5	Friday. Deadline for filing original, approved thesis with Dean's Office.
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.

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

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.
March 26	Friday. Deadline for submission of preliminary draft of thesis to Advisor.
April 5-10	Monday-Saturday. Spring vacation.
April 19	Monday. Last day to drop a course.
April 20	Tuesday. Deadline for submission of thesis to Advisor and committee.
April 23	Friday. Deadline for filing original, approved thesis with Dean's Office.
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 5	Monday. Deadline for submission of preliminary draft of thesis to Advisor.
July 8-9	Thursday-Friday. Final examinations.
July 9	Friday. End of first summer session.

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

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.
July 30	Friday. Deadline for submission of thesis to Advisor and committee.
August 5	Thursday. Last day to drop a course.
August 9	Monday. Deadline for filing original, approved thesis with Dean's Office.
August 19-20	Thursday-Friday. Final examinations.
August 20	Friday. End of second summer session.

Fall Semester, 1976

August 23-26	Monday-Thursday. Registration, Orientation, Advisement.*
August 30	Monday. Classes begin.
September 4	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, 1976, graduates to apply for graduation.
September 6	Monday. Holiday.
September 13	Monday. Last day to add a class.
September 24	Friday. Last day for students to withdraw and receive a partial refund of tuition and fees.
October 29	Friday. Deadline for submission of preliminary draft of thesis to Advisor.
November 22	Monday. Last day to drop a course.
November 23	Tuesday. Deadline for submission of thesis to Advisor and committee.

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

November 25-27	Thursday-Saturday. Thanksgiving Holidays.
December 3	Friday. Deadline for filing original, approved thesis with Dean's Office.
December 13-18	Monday-Saturday. Final examinations.
December 18	Saturday. Semester closes.

Spring Semester, 1977

January 10-14	Monday-Friday. Registration, Orientation, Advisement.*
January 17	Monday. Classes begin.
January 22	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, 1977, graduates to apply for graduation.
January 29	Saturday. Last day to add a class.
February 11	Friday. Last day for students to withdraw and receive a partial refund of tuition and fees.
March 25	Friday. Deadline for submission of preliminary draft of thesis to Advisor.
April 4-9	Monday-Saturday. Spring vacation.
April 18	Monday. Last day to drop a course.
April 19	Tuesday. Deadline for submission of thesis to Advisor and committee.
April 22	Friday. Deadline for filing original, approved thesis with Dean's Office.
May 9-14	Monday-Saturday. Final examinations.
May 14	Saturday. Semester closes.
May 15	Sunday. Commencement.

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

Summer Session, 1977

First Session

May 30-31	Monday-Tuesday. Registration, Orientation, Advisement.*
June 1	Wednesday. Classes begin.
June 2	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 6	Monday. Last day to add a class.
June 8	Wednesday. Last day for students to withdraw and receive a partial refund of tuition and fees.
June 23	Thursday. Last day to drop a course.
July 1	Friday. Deadline for submission of preliminary draft of thesis to Advisor.
July 4	Monday. Holiday.
July 7-8	Thursday-Friday. Final examinations.
July 8	Friday. End of first summer session.

Second Session

July 11	Monday. Registration, Orientation, Advisement.*
July 12	Tuesday. Classes begin.
July 13	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, 1977, graduates to apply for graduation.
July 15	Friday. Last day to add a course.
July 19	Tuesday. Last day for students to withdraw and receive a partial refund of tuition and fees.
July 29	Friday. Deadline for submission of thesis to Advisor and committee.
July 28	Thursday. Last day to drop a course.
August 8	Monday. Deadline for filing original, approved thesis with Dean's Office.
August 18-19	Thursday-Friday. Final examinations.
August 19	Friday. End of second summer session.

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

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.

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 the 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 buildings on the new campus become available.

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 15 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 people of other countries. 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 University of Texas Health Science Center at San Antonio (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 the 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 of 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

The University of Texas at San Antonio was granted full accreditation at the graduate level by the Southern Association of Colleges and Schools in December 1974. Because accreditation applies retroactively within the year awarded, all UT San Antonio degrees have been awarded by an accredited institution.

The Library

The University of Texas at San Antonio Library, named the John Peace Library in 1974 in honor of the late former Chairman of the UT System Board of Regents, 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 UT San Antonio.

The library building, scheduled for completion in late 1975, is designed to offer full services 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 John Peace 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 staff of highly qualified subject-specialist librarians is available for consultation and assistance.

The UT 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 the late John Peace. 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 Texas 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 (PDP-11/45) 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 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, located in HemisFair Plaza in downtown San Antonio, collects, displays, and distributes materials on the history of Texas. It is an educational and research arm of UT San Antonio providing statewide coverage of Texas history through films, filmstrips, slide shows, and publications. Traveling exhibits are used in public schools, colleges, and universities throughout the State.

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 an 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 Center For Archaeological Research

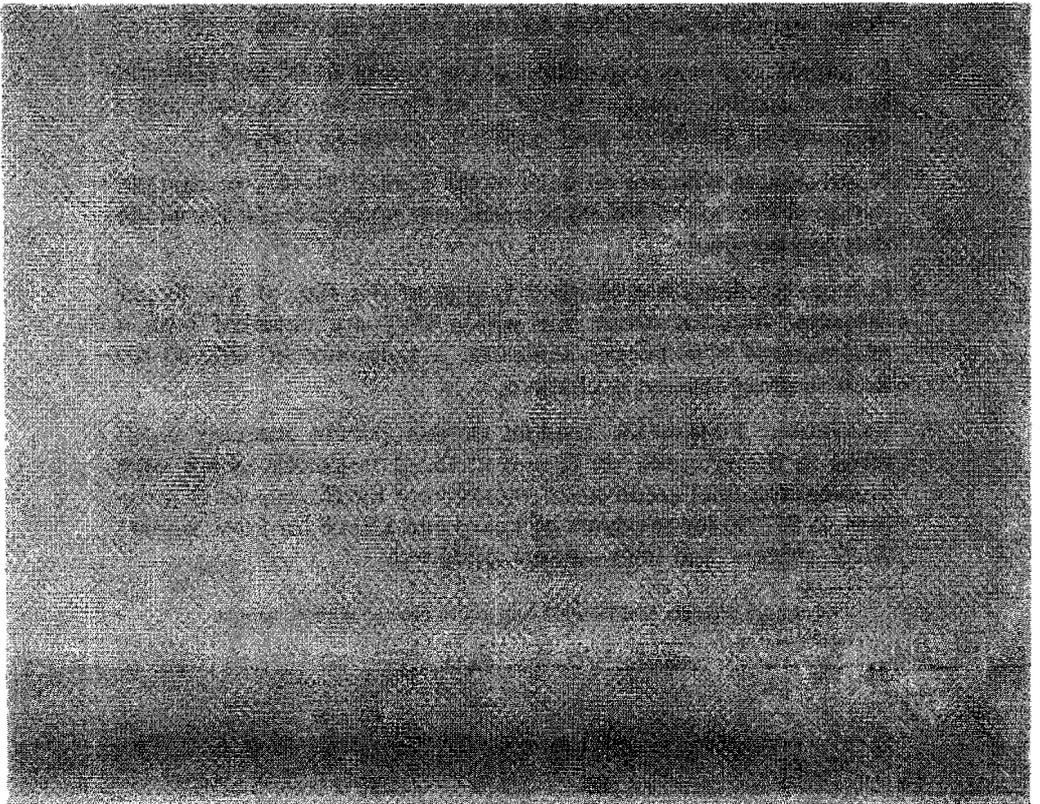
The Center for Archaeological Research (in the Division of Social Sciences, College of Humanities and Social Sciences) was established in September, 1974. Among its objectives are: (1) the training of students in archaeology; (2) the promotion of archaeological research in the South and South Central Texas region; (3) carrying out necessary archaeological assessments for federal and state agencies as required by legislation and executive orders; (4) aiding local agencies and citizens who need the services of trained archaeologists.

The Center's staff includes a number of graduate students. They, along with other Center personnel, carry out archaeological surveys in Bexar, Starr, Kendall, Comal, Gonzales, Karnes, Jim Wells and other South Texas counties. Other Center projects include a broad study of the archaeological and historical resources of the San Antonio-Guadalupe River Basins, and support of regional archaeological surveys and excavations.

The UT San Antonio Bookstore

The UT San Antonio Bookstore, owned and operated by The University, maintains an on-campus store. 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.

II. Tuition, Fees, Charges, Penalties and Deposits



Introduction

Students are entitled to enter class or laboratory only after their tuition, fees, and deposits have been paid.¹ 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 House Bill 43, 62nd Legislature, 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 is charged.

Nonresidents who are citizens of the United States are charged tuition at the rate of \$40.00 per semester hour of credit for which they are enrolled.

Foreign Students are 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 is charged.

Exception: Tuition for resident or nonresident students registered in thesis credit only, and in those instances where such credit is the final credit-hour requirement for the degree in progress, is \$12.00 for residents of Texas and \$50.00 for nonresidents (U.S. citizens and international students).

¹All tuition charges and fees are subject to change without notice.

TUITION

Each Semester

<i>Number of Hours Taken</i>	<i>Residents of Texas</i>	<i>Non-Residents</i>	<i>International Students</i>
1	\$50.00	\$ 40.00	\$200.00
2	50.00	80.00	200.00
3	50.00	120.00	200.00
4	50.00	160.00	200.00
5	50.00	200.00	200.00
6	50.00	240.00	200.00
7	50.00	280.00	200.00
8	50.00	320.00	200.00
9	50.00	360.00	200.00
10	50.00	400.00	200.00
11	50.00	440.00	200.00
12	50.00	480.00	200.00
13	52.00	520.00	200.00
14	56.00	560.00	200.00
15	60.00	600.00	210.00

Each Summer Session

<i>Number of Hours Taken</i>	<i>Residents of Texas</i>	<i>Non-Residents</i>	<i>International Students</i>
1	\$25.00	\$ 40.00	\$100.00
2	25.00	80.00	100.00
3	25.00	120.00	100.00
4	25.00	160.00	100.00
5	25.00	200.00	100.00
6	25.00	240.00	100.00
7	28.00	280.00	100.00
8	32.00	320.00	112.00
9	36.00	360.00	126.00

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 is determined in accordance with Chapter 54, Subtitle A, Title 3 of the Texas Education Code.² 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 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 of facts, or misrepresentation of fact, 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 the Student Health Service, 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.

²A detailed description of the residence regulations is offered as Appendix A 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 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. Cap and gown rental is extra.

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

Thesis Binding Fee

A fee of \$5.00 per copy is charged for binding the two official copies of the thesis to be filed with The University.

Late Registration Fee

A late registration fee of \$5.00 is 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 term.

Bad Check Charge

A charge of \$5.00 is assessed for each returned check to offset the cost of handling dishonored checks. The University will not accept a check from a student who has previously given two bad checks.

Replacement of Student Identification Card Charge

A charge of \$2.00 is 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 is 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 auditing fees will be charged student auditors registered at UT San Antonio.

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

Parking Fees

On-campus parking fees are \$8.00 for the regular academic year (September through May) and \$4.00 for the summer. Students who enroll in UT San Antonio classes held at The University of Texas Health Science Center are required to pay the student parking fee in effect on that campus.

Duplicate Fee Receipt

A service charge of \$1.00 is 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.

As of September 1, 1976, an additional fee will become effective. This fee is the required Student Use Fee. The amount charged is \$4.00 per semester credit hour. This fee is authorized by the Board of Regents for the occupancy, services, use, and/or availability of all or any of its property, buildings, structures, activities, operations, or other facilities.

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 are 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 is 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 be used thereafter for student scholarships.

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 (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 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 residents. Exemption from payment of tuition and certain fees extends to children of members of the armed forces who were killed in action or died while in the service in World War II or in the Korean conflict or in the Cold War and to orphans of members of the Texas 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 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 receives 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 semester, 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 receives 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 laboratory fees, and student service fees refunds are 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 are billed to the student.

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

No refunds are 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 are 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

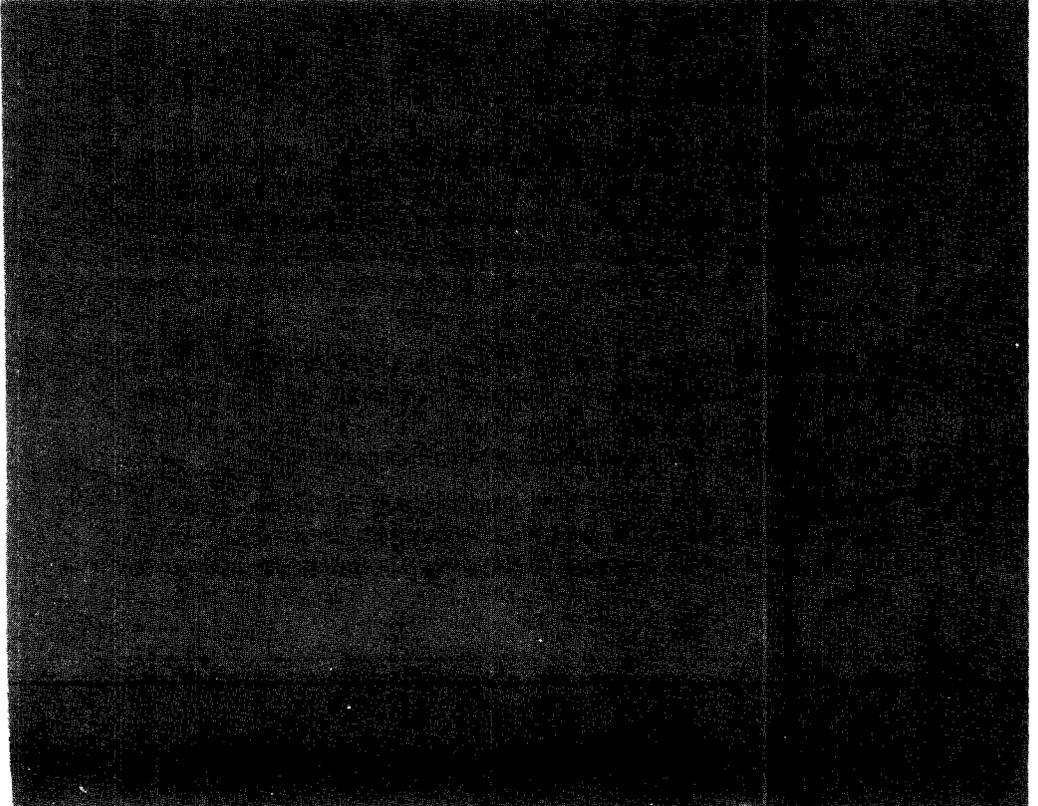
In the event of non-payment of debts owed to The University, any of the following actions may be taken:

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 any 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 discipline and conduct 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, *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.

A registered nurse is on duty during specified hours, 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.

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 limited scholarship 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 Program. (These forms may be obtained 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 14 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 a Guaranteed Student Loan without meeting the needs analysis test.

Information concerning scholarships is available by calling or writing the Office of Student Financial Aids.

The Texas Rehabilitation Commission offers assistance for tuition and non-refundable fees to students who have certain disabling conditions provided their vocational objectives have been approved by a TRC 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 maintains a placement service for the following purposes: part-time employment while attending school, summer and vacation employment, placement for students seeking employment immediately after graduation from UT San Antonio and assistance in the preparation of resumes and the selection of

further training. Information on job interviewing is also provided. The Placement Office maintains contact with industry, business, state and federal employment services and the professions.

Graduating students are given an opportunity to meet recruiters from prospective employers who conduct on-campus interviews for purposes of future employment.

Athletics

Upon the occupation of UT San Antonio's permanent campus, the athletic program will consist only of general recreational activities. 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. 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 provides no on-campus housing. Students are responsible for providing their own housing facilities.

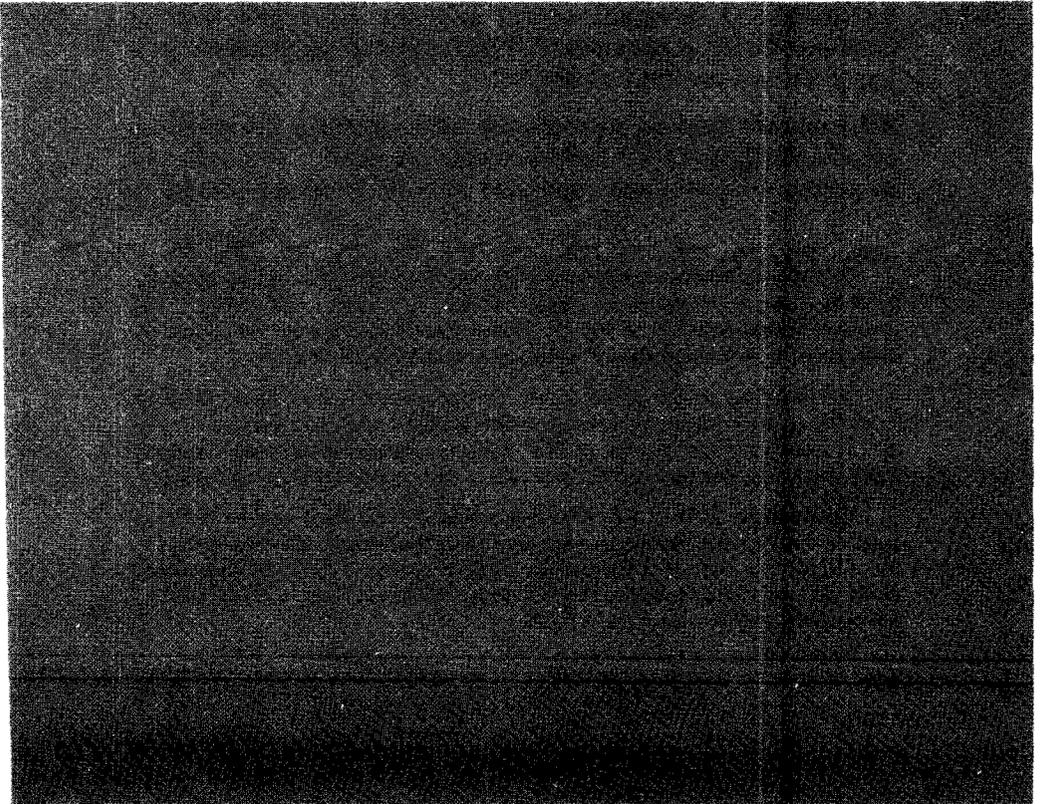
Identification Cards

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. Application for a replacement card is to be made at the Registrar's Office.

Lost and Found

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

IV. Admission Requirements



Admission

Admission requirements for graduate study at UT San Antonio are designed so that students admitted will have a high probability of success in graduate level academic work. The criteria for the various classifications of admission to The University of Texas at San Antonio are set forth in the following paragraphs.

Admission as a Graduate Degree Student¹

In order to be eligible for unconditional admission to The University of Texas at San Antonio as a degree student at the graduate level, an applicant must: (1) hold a baccalaureate degree from an accredited college or university in the United States or have proof of equivalent training at a foreign institution; (2) have a "B" average (3.0 on a 4.0 scale) on all upper-division (junior and senior) as well as any graduate level work previously taken; (3) have completed a minimum of 18 semester hours (12 of which must be upper-division) in the area in which the graduate degree is sought; (4) be accepted by the College offering the degree program;² (5) submit scores from the Graduate Record Examination Aptitude Test (GRE) or, for those applying for the M.B.A. program, scores from the Admission Test for Graduate Study in Business (ATGSB);³ and (6) be in good standing at the last institution attended.

An applicant desiring to work toward a graduate degree in an area in which his or her undergraduate preparation is insufficient to permit unconditional admission may be admitted condition-

¹A graduate degree student is one admitted to a graduate degree program. Some graduate degree programs specify additional admission requirements. The applicant should refer to the specific degree descriptions for any admission requirements in addition to the university-wide requirements listed here.

²An individual review of the applicant's background is made by the Division Graduate Advisor for the program to which admission is being sought. No student is admitted in the absence of a favorable recommendation by the Graduate Advisor and Division Director in the program area and the Dean of the College.

³Information on the GRE and applications for the tests may be obtained from the Educational Testing Service, Box 1502, Berkeley, California 94701. For the ATGSB, the address is Educational Testing Service, Princeton, New Jersey 08540. The institution code for The University of Texas at San Antonio is 6919-5 for the GRE and R6919 for the ATGSB.

ally to the graduate degree program with the stipulation that course work or other study as determined by the Graduate Advisor and Dean will be undertaken to remove deficiencies and that such make-up work will be in addition to the regular degree requirements. Any special conditions placed on the student's admission are stated in the admission notice.

An individual seeking admission as a graduate degree student whose grade-point average is less than that specified for unconditional admission may be admitted conditionally to a graduate degree program upon the recommendation of the Graduate Advisor and Dean who will assign special conditions regarding the number of semester hours to be taken and the minimum grade-point average to be maintained before unconditional status may be attained. In no case may the grade-point average condition be lower than that required for a student to remain in The University as a graduate (degree, certificate, or special) student. (See the section on Academic Dismissal.) The student is expected to remove conditions placed upon him or her at the time of admission by the end of the first full semester of enrollment. If they are not met, the student normally is barred from continuation in the graduate program.

Admission as a Graduate-Level Teacher Certification Student⁴

In order to be eligible for unconditional admission to The University of Texas at San Antonio as a teacher certification student at the graduate level, an applicant must: (1) be eligible for unconditional admission to the graduate degree program(s) appropriate to the certification program sought and have the approval of the Director of the Division of Education; (2) make application for a specific certificate program; (3) be a U.S. citizen, or have evidence of having made application for citizenship; and (4) hold a valid teacher's certificate in Texas.

⁴A certification student is one admitted to a graduate-level teacher certification program. A student admitted to a graduate teacher certification program according to these provisions and simultaneously to a graduate degree program is considered, for classification purposes, to be a graduate degree student.

See Appendix B for a summary of Professional Certificate Programs and procedures and requirements relative to certification at the graduate level.

An applicant desiring to work toward a graduate-level teacher certification in an academic area in which his or her undergraduate preparation is insufficient to permit unconditional admission may be admitted conditionally to the certification program with the stipulation that course work or other study as determined by the Graduate Advisor and the Assistant Dean for Teacher Certification and Placement will be undertaken to remove deficiencies and that such make-up work will be in addition to the regular certification requirements. Any special conditions placed on the student's admission are stated in the admission notice.

An individual seeking admission as a graduate-level certification student whose grade-point average is less than that specified for unconditional admission may be admitted conditionally to a certification program with the approval of the College offering the degree program and the Assistant Dean for Teacher Certification and Placement, one or both of whom will assign special conditions regarding the number of semester hours to be taken and the minimum grade-point average to be maintained before unconditional status may be attained. In no case may the grade-point average condition be lower than that required for a student in The University as a graduate (degree, certificate, or special) student. (See the section on Academic Dismissal.) The student is expected to remove conditions placed upon him or her at the time of admission by the end of the first full semester of enrollment. If they are not met, the student normally is barred from continuation in the certification program.

Admission as a Special Student⁵

A student who does not elect to enter either a graduate-level degree or certification program may seek permission to register as a special student in one or more of the Colleges. To be eligible for admission as a special student, an applicant must: (1) meet all the requirements for graduate degree student admission; and (2) have the approval of the Dean(s) of the College(s) in which the applicant anticipates taking courses. Special students are eligible to take any graduate or undergraduate courses for which they have the necessary prerequisites, provided space is

⁵A special student is one admitted in one or more Colleges of The University for the purpose of enrolling in graduate and/or undergraduate courses without entering a degree or certification program.

available and they have the approval of the course instructor(s), as well as that of the Dean of the College(s).

Credit earned as a special student may be applied toward a Master's degree only when the credits earned for these courses have been evaluated and approved for this purpose by the Graduate Advisor and Dean of the College offering the degree program. The approval of the Assistant Dean for Teacher Certification and Placement is required before credit earned as a special student can be applied to a graduate-level teacher certification program.

To continue in The University as a special student in a subsequent term, the student must meet the standards required to remain in The University as indicated in the section on Academic Dismissal.

Admission as a Transient Student at the Graduate Level

A student who intends to register for courses in the summer session only or during one semester only and who does not intend to work toward a degree or a graduate-level teacher's certificate at The University of Texas at San Antonio may be admitted as a transient student. In order to qualify as a transient student at the graduate level, the applicant must hold at least a baccalaureate degree from an accredited college or university and be in good standing at the last institution attended.

Transient students may register for any courses for which they have the necessary prerequisites and in which space is available. A student registered in this capacity cannot register for a subsequent term unless he or she has been admitted as a degree, certification, or special student. To be admitted in one of these categories, the appropriate admission requirements set forth above must be met.

Admission of International Students

The following admission requirements pertain to all applicants for admission who are not citizens of the United States and are, or will be, in the United States on a student visa or visa other

than one entitling them to immigrant status. All applicants for admission as international students must:

1. Meet the graduate admission requirements for degree students.
2. Submit scores from the Test of English as a Foreign Language (TOEFL)⁶ 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 more work in English is necessary. 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, colleges, or universities or from institutions in which English is the medium of instruction.
3. 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.
4. Submit proof of adequate hospitalization insurance prior to registration.

The above admission criteria serve as guidelines for admission for international students. The credentials of each applicant are examined on an individual basis by the Graduate Advisor for the projected degree program with admission granted only to those who show promise of success in graduate study at The University of Texas at San Antonio.

Temporary Admission

Graduates of U.S. or foreign institutions whose previous preparation cannot adequately be evaluated may be granted temporary admission. Such admission may be granted by the Registrar

⁶Students needing to take this test should write to the Educational Testing Service, Box 899, Princeton, New Jersey 08540, requesting information on taking the TOEFL. The code for The University of Texas at San Antonio is 6919.

for one term only. If the student fails to be granted admission as a degree, certificate, or special student under the procedures set forth above by the end of the term, the student normally is not allowed to register for a subsequent term. Only in unusual circumstances is a second term of study approved and then only with the concurrence of the Dean of the College in which the student is taking courses.

Credit earned while under temporary admission may be applied toward a Master's degree and/or certification program only after the student has been admitted to such programs and only when the credits earned for the courses have been approved by the Graduate Advisor and Dean of the College offering the degree program. The additional approval of the Assistant Dean for Teacher Certification and Placement is required before credit earned as a temporarily admitted student can be applied to a graduate teacher certification program.

Application Dates

Students applying for admission as degree, certificate, or special students may apply for admission as early as nine months before the beginning of the term in which they wish to begin graduate study. Application forms and instructions are available from the Admissions Office. The completed application form and all required supporting documents must be on file with the Admissions Office *at least six weeks* before the student plans to start graduate work.

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, etc.) are on file in the Admissions Office, since admission is not granted until the applicant's file is complete.

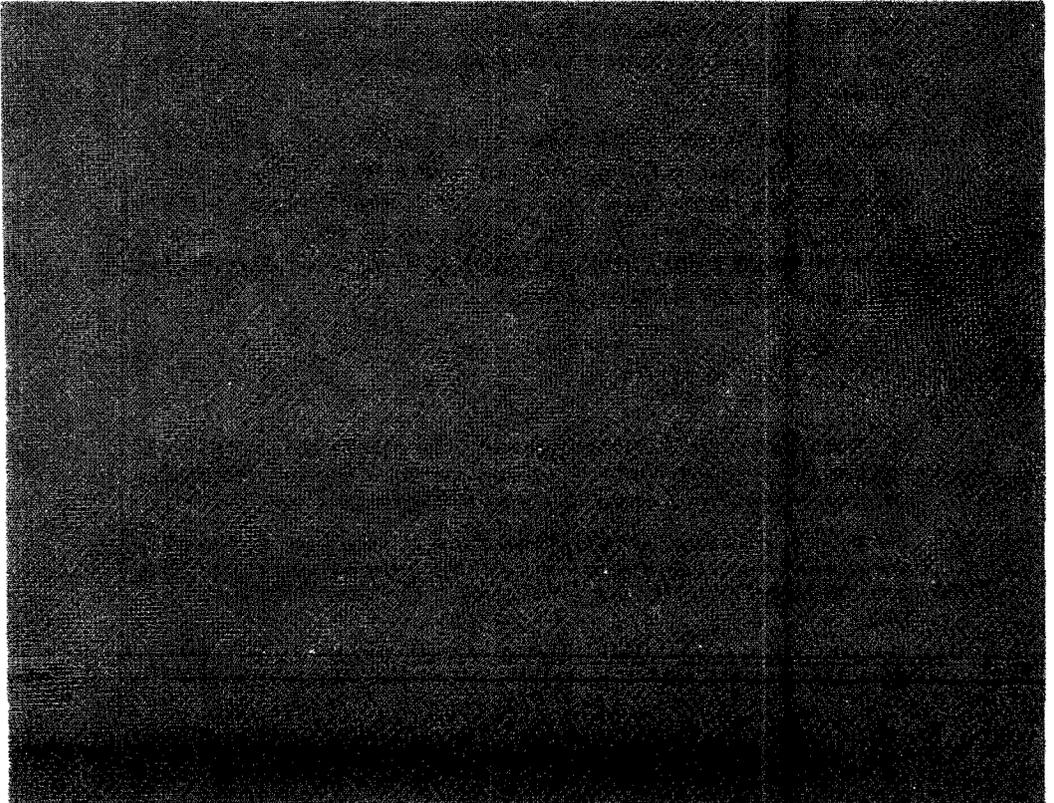
Students who apply for admission to The University of Texas at San Antonio for any term and do not register, must re-apply for admission if they wish to enroll at a later date. A subsequent application for admission must be in accordance with current

admission requirements. New transcripts, test scores, and all other supporting documents are required since files for admitted students who do not register are not retained.

Re-Admission Policies and Procedures

Students, other than transient students, who previously have been admitted and registered at The University of Texas at San Antonio as resident students and who are 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 to the Admissions Office. All former 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 depends on academic status at the conclusion of the student's last UT San Antonio enrollment and any subsequent college or university work attempted.

V. General Academic Regulations



Registration

All students who attend classes at The University of Texas at San Antonio must be registered officially.¹ 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 is 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 are charged an additional \$5 the first day of late registration and an additional \$2.50 per day thereafter with the maximum amount being \$15 for any one term. This fee is non-refundable. Instructions for late registration are available at the Registrar's Office. Students are not 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 capacities.

¹Students 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 of 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 proper form with the Registrar's Office so that the action becomes official. Courses dropped during this period do not appear on the student's academic record. A grade of "F," however, is 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 Graduate Advisor or Division Director in the Division in which the student is registered.² 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.³ 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/her responsibility to initiate and complete procedures for obtaining an approved withdrawal from the course. The forms for this purpose are available at 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 ses-

²During this period a special student should seek approval of the course instructor and Dean of the College in which the course is offered. A certificate only student should seek approval of the course instructor and the Assistant Dean for Certification and Teacher Placement.

³For a special student and a certificate only student, additional approval should be sought of the Dean of the College in which the course is offered.

sion is assigned a grade of "W" if he/she is passing in the course at the time of withdrawal or a grade of "F" if he/she 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 is 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 sessions.

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 is 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 John Peace Library. No additional auditing fees are charged student auditors registered at UT San Antonio.

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

No official record is made of 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 re-admitted. A "re-admitted student" is required to satisfy the curriculum requirements existing at the time of the re-admission. Students must be registered during any semester or summer session that they are taking courses or required examinations or are receiving guidance toward the thesis. (See Re-admission Policies and Procedures.)

Change of Major or Degree

A student who wishes to change his or her major or degree objective must obtain the required forms at the Registrar's Office. The change is not official until the student has the necessary approval of the Graduate Advisor and the Dean in the area in which the newly selected major or the degree is offered and a form has been completed and filed with the Registrar's Office.

Graduate Student Classification System

Degree Student: A student who is admitted to a graduate degree program.

Certificate Student: A student who is admitted to a graduate-level teacher certification program. A student admitted to a graduate teacher certification program and simultaneously to a graduate degree program is considered, for classification purposes, to be a graduate degree student.

Special Student: A student who is admitted in one or more Colleges of The University for the purpose of enrolling in graduate and/or undergraduate courses without entering a degree or certification program.

Transient Student: A student who registers for courses in the summer session only or during one semester only and who

does not intend to work toward a degree or certificate at UT San Antonio.

Definition of a Full-time and Part-time Graduate Student

A full-time graduate student (degree, certificate, special, or transient) is one enrolled for nine or more semester hours of credit during a regular semester or for three or more hours of credit during a summer session.

A part-time graduate student (degree, certificate, special, or transient) is one enrolled for less than nine hours of credit during a regular semester or less than three 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 two or three-letter abbreviation of the subject field. The first digit indicates the level of the course. All courses with a first digit of 1 or 2 are lower-division (freshman and sophomore) courses, and all courses with a first digit 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 digits are used within the Colleges by each Division to distinguish individual courses. The fourth digit 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 in-

structor 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).

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 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
EP	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.

"EP" or "Postponement of Final Examination." The symbol "EP" is used to indicate that a student has been permitted to postpone a final examination.

“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 is 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 within one year of the time that the “Incomplete” grade is received and before the student’s graduation. If the work is not completed within this time, the “Incomplete” remains 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.

The time limit does not apply to graduate level courses or an individual study nature, such as thesis or internship courses, except that an “Incomplete” cannot be removed after a degree is awarded. The time limit does apply to all other graduate courses, including Special Problems and Independent Study courses.

Whenever a grade of “Incomplete” is assigned, the instructor is required to file a “Requirements for Removal of Incomplete” report with the Registrar’s Office.

“NR” or “No Report.” The grade “No Report” (“NR”) may be assigned a student only by the Registrar. This symbol is assigned only when, in unusual circumstances, 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 is replaced with the official grade as soon as possible.

Reporting of Grades

Grades are reported by course instructors by term and are due in the Registrar’s Office 48 hours following the final examina-

tion. Final grades cannot be withheld nor can reporting of them be deferred. (Absence from a final examination should be reported as "EP," if a postponed examination has been authorized in accordance with the "Postponement of Final Examination Procedures" set forth in this catalog.) Additional work performed by a student may not be used to raise a grade that has been reported to the Registrar's Office.

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 that appears on the instructor's final grade sheet; 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.

Change of Grades

Grade changes from "Incomplete" ("IN") to a letter grade must be made within the time limit provisions explained under "Explanation of Grade Symbols" 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.

Grade changes from "Postponement of Final Examination" ("EP") to a letter grade should be made as soon as possible after the student has taken the authorized postponed final examination. As explained under "Postponement of Final Examination Procedures" in this catalog, if a postponed final examination is not taken before the end of the fall or spring term following the one for which it was approved, the grade in the course will be changed by the Registrar's Office to "F." Prior to that time the instructor may change the "EP" to another letter grade by completing a change of Grade Form and filing it with the Registrar's Office.

Any other change of grade must be initiated by the instructor on the required form available in the Registrar's Office and in the offices of the College Deans. All requests for a change of grade

should be accompanied by a letter explaining the requested change. Such requests require the approval of the Vice President for Academic Affairs before the Registrar will make the change on the student's record.

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 attendance 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.

When, in the judgment of the instructor, a student has been absent excessively, the instructor may report the absences to the Dean of the College in which the course is offered and recommend that the student be dropped from the course with a grade of "F." If the Dean approves the recommendation, he will advise the Registrar, instructor and student of the action taken.

A student who enrolls for a course and then does not attend will be considered absent from class until he officially drops the course or until he has accumulated an excessive number of absences and is dropped from the class with a grade of "F."

Repeating Courses

Only those courses listed in the catalog in which the course description specifically indicates "may be repeated for credit" may be repeated with both units and grade points earned being counted. Graduate students may not repeat courses for the purpose of raising a grade.

Postponement of Final Examination Procedures

A student who is compelled to be absent from a final examination because of illness or other imperative reason should, either

in person or through a friend, petition his/her academic Dean for permission to postpone the examination. This request, which requires prior approval by the instructor, should be made to the Dean as soon as the student knows he/she will be compelled to be absent.

The instructor records the symbol "EP" on the final grade report for a student who has been permitted to postpone an examination.

The examination should be given as soon as possible (preferably during the same examination period), but not later than thirty days after the original examination period. If for good reason the student cannot take the examination within the thirty-day period, the examination may be scheduled at any time convenient to the instructor, except that in no case will it be given later than the end of the fall or spring term following the one for which the postponed examination was approved. If a postponed examination is not taken before the end of the next fall or spring term, the grade in the course will be changed to "F."

Academic Dismissal

Continuation in a graduate degree or certificate program is dependent upon: (1) satisfactory progress in absolving any admission conditions that were imposed, (2) maintaining a 3.0 ("B") grade-point average for courses taken in a given term, and (3) satisfactory progress in completing the degree requirements.

Should a graduate (degree, certificate, special or transient) student make less than the 3.0 grade-point average in any term or receive a grade of "D" or "F," he or she will be placed on Academic Probation by the Registrar. During the term in which the student is on Academic Probation, he or she will be dismissed from The University if any of the following occur:

- 1) the grade-point average in that term is less than 3.0, or
- 2) the student receives a grade of "D" or "F" in any course at UT San Antonio, or
- 3) the student's overall grade-point average in graduate level courses at UT San Antonio is less than 3.0.

A graduate student whose grade-point average for any term is less than 2.0 ("C"), irrespective of whether he or she is on Academic Probation, will be dismissed from The University.

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/her 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 a 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 having his/her enrollment for that term 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 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 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 academic 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 at 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 is charged for each copy of the transcripts and must be paid in advance. Transcripts from other institutions submitted to UT San Antonio become 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.

Transcript service is withheld from students who have a financial obligation or other commitment outstanding to The University until the obligation is cleared.

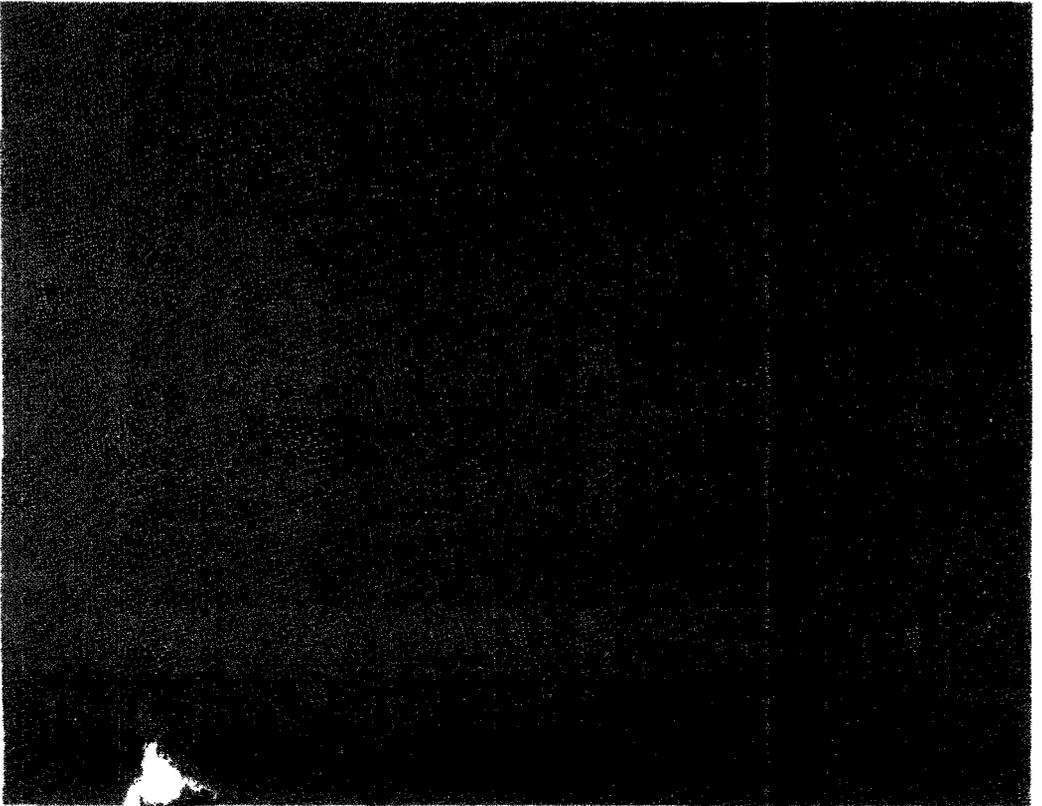
Release of Transcripts and Academic Records

Transcripts and other information from a student's academic records is released by the Registrar only upon written request from the student, or other person authorized by law, and when payment of the appropriate fee is made. An exception may be made in response to a subpoena or a court order.

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. Master's Degree Regulations



University-Wide Graduate Admission Requirements

Every Master's degree program is based on the assumption that the students participating in it already possess a general college education to the baccalaureate degree level. Accordingly, entering students, as described under "Admission Requirements," are required to hold a baccalaureate degree from an accredited college or university in the United States or have proof of equivalent training at a foreign institution. Entering students are required to have a minimum of 18 semester hours in the area in which the graduate degree is sought, at least 12 of these hours are to be of upper-division level, to be accepted by the college offering the degree program, and to submit results from certain standardized examinations. In addition, the grade-point requirements specified as admission requirements to graduate programs must be met. Students without adequate preparation may be admitted on a conditional basis with the understanding that they must undertake course work and other study in order to demonstrate their abilities to do graduate-level work, and that such work may be in addition to the regular degree requirements.¹

Entering Examinations

The Dean of the College in which student's major areas fall may appoint a committee to examine students on their undergraduate preparation before applications to enter the program are approved. Admission to some areas of graduate study requires a student to pass an examination in English and/or a foreign language.

Transfer of Credit

Ordinarily all work for the Master's degree must be done at The University of Texas at San Antonio. Transfer credit of usually not more than six semester hours may be allowed for *graduate*

¹Some graduate degree programs specify additional admission requirements. The applicant should refer to the specific degree descriptions in Chapter VIII for any requirements in addition to the university-wide graduate admission requirements listed here.

course work completed at another accredited institution upon the approval of the student's Graduate Advisor and the Dean of the College in which the major area is located.² Upon petition by the student and recommendation of the student's Graduate Advisor and Supervising Committee (or a special committee appointed by the Dean), the Dean may find compelling reasons for permitting the transfer of a maximum of one-third of the semester hours of graduate work (exclusive of thesis) required under a degree or certificate program at UT San Antonio. All work submitted for transfer credit must have been completed with grades of "A" or "B" and must have been completed no more than six years before the degree is awarded.

It is the policy of The University of Texas System that all academic institutions within the System may accept graduate credit from each other, and the regular requirements on residency are adjusted accordingly. The applicability of specific courses from other University of Texas institutions to a student's graduate degree program at UT San Antonio, however, must be approved by the student's Graduate Advisor and Dean.

Correspondence and Extension Courses

Courses completed by correspondence and by extension are not accepted for graduate credit and may not be applied to a graduate degree program.

Courses Counted for Another Degree

No courses counted toward another degree may be applied to a graduate degree, either directly or by substitution. Work done for the Master's degree may be included in the work for the doc-

²The Registrar's Office evaluates transcripts and designates which graduate courses are acceptable under the above provisions for transfer toward Master's degrees at UT San Antonio. Whether or not a course is transferable as graduate course work is determined by the course number assigned by the institution awarding the credit. To be transferable to UT San Antonio (up to a maximum of six hours) courses must be defined as graduate courses at the institution where credit was earned. Courses which are defined as upper-division by their course numbers but permitted to be applied to a graduate degree at the institution awarding the credit are not accepted for transfer toward a Master's degree at UT San Antonio.

toral degree, when it is offered, provided it is acceptable to the candidate's Supervising Committee and Dean.

Limitation on Undergraduate Credit Counted Toward A Master's Degree

With the approval of the student's Graduate Advisor and Dean, a candidate for a Master's degree may apply a maximum of six semester hours of credit for upper-division (junior or senior) courses completed at UT San Antonio with the grades of "A" or "B" to a Master's degree; no courses below the upper-division level may be applied to the degree.

Good Standing

To be in good standing a graduate (degree, certificate, special) student must maintain at least a 3.0 ("B") grade-point average for all courses taken in a given term and receive no grades less than "C."

In order to be awarded a Master's degree, the candidate must have achieved an over-all 3.0 grade-point average for all credit which is counted as part of the degree program. No courses in which grades of less than "C" were earned may be applied to a graduate degree.

Admission to Candidacy

All candidates for the Master's degree should file an Application for Admission to Candidacy, signed by the student's Graduate Advisor, with the Dean of the College in which the degree program is located at the end of the first semester of full-time graduate study or upon completion of the first 12 hours of graduate work.

The Dean, or a committee appointed by the Dean, may examine the student on his preparation in his area and related subjects, and may require him to make up any deficiencies before his application is approved. This examination may be either oral or written at the discretion of the examiners. The applicant is admitted to candidacy only when he/she has satisfied any condi-

tions for admission and when his/her application and course of study have been approved by the Graduate Advisor and Dean. Admission to candidacy is a degree requirement.

Comprehensive Examination

A candidate for a Master's degree must, in addition to all other requirements, pass a comprehensive examination which may be oral or written or both. The examining committee is appointed by the Dean of the College in which the degree is offered. Comprehensive examinations are given only to those students who have been admitted to candidacy for the degree.

Options for Master's Degrees

Two options are available for most Master's Degree Programs.³

Option I. The candidate for a Master of Arts or Master of Science Degree is required to complete 30 semester hours of credit (36 semester hours for the Master of Business Administration Degree; 60 hours for the Master of Fine Arts Degree) approved by the Graduate Advisor and Dean, including six semester hours of credit for a thesis. The thesis is subject to approval by the student's Graduate Advisor, Thesis Committee, and Dean.

Students receiving advice and assistance from a faculty member in the preparation of theses are required to enroll in the appropriate thesis course (if necessary, for multiple terms) until final approval of completed thesis has been given and two copies have been filed with the student's Dean.

Option II. For a Master's Degree Program under Option II, a student can meet the requirements for a Master's degree without writing a thesis but instead is required to complete a program of 36 semester hours of course work approved by the student's Graduate Advisor and Dean.

At the beginning of the student's Master's program he/she should in consultation with his/her Graduate Advisor select the option most suitable to his/her needs. Should a student elect to

³The student should refer to Chapter VIII to determine whether a specific degree program offers both options.

change options after being admitted to candidacy, he/she will need to apply for candidacy under the new option.

Requirements for Thesis

The following steps for completing a thesis as part of the Master's degree are the responsibility of each degree candidate selecting Option I:

1. Secure the approval of the Thesis Director, who is also Chairman of the Thesis Committee. The Thesis Committee consists of the Director and two additional members of the Graduate Faculty appointed by the Dean. The student is expected to work closely with his/her Thesis Director in selecting the thesis topic and in completing other details of his/her study.
2. Submit a preliminary draft for approval by the Thesis Director not later than 45 calendar days before final examinations of the term in which the degree is to be awarded. The first draft copy should be corrected, legible, and typewritten. The format of the thesis must follow University regulations. The detailed requirements are available from the Dean.
3. Secure approval of the draft by the Thesis Committee. This step is intended to signify that the thesis meets the required standards for content, expression, format, spelling and general accuracy. Candidates are responsible for meeting the standards of those reading and approving the thesis.
4. Submit the approved draft to a typist. The approved draft of the thesis is then to be typed in acceptable form.
5. Submit the final copy of the thesis to the Thesis Director and Thesis Committee not later than 20 calendar days before final examinations of the term in which the degree is to be awarded. This copy of the thesis must be the original and, if acceptable, must be signed by the Thesis Director and members of the Thesis Committee.
6. File two unbound copies, including the original, of the approved thesis with the Dean's Office at least 10 days prior to the last day of classes of the term in which the

degree is to be awarded. The copies are transmitted by the Dean to the Library, where they are bound. One copy is retained by the Library, and the other is returned to the Dean. (A fee of \$5.00 per copy will be charged for binding the official copies of thesis.)

7. It is customary that copies of the thesis be presented to the Thesis Director and members of the Thesis Committee. Arrangements and expenses for binding of all copies, except the two official copies for The University, are the responsibility of the student. Copyright may be arranged by the author and will be at the student's expense.

Second Master's Degree

A student may pursue a second Master's degree at UT San Antonio only under the following conditions:

- 1) that the second Master's opens an additional area, field, or concentration;
- 2) that the proposed second Master's is approved by the student's Graduate Advisor and Dean.

It should be further understood:

- 1) that the same graduate courses cannot be applied toward two different degrees;
- 2) that credit applied to a previous degree at another institution which duplicates a portion of the program required under the second degree being sought at UT San Antonio would not reduce the number of hours required for that second degree. Courses already taken would not have to be repeated. Rather, additional course work would be substituted for such previously completed courses.

Time Limitation on Applying Credit Toward a Master's Degree

All credit to be applied to a Master's degree must have been earned within the six years immediately preceding the date the degree is awarded. Out-dated UT San Antonio credits may be

accepted upon approval of the candidates Graduate Advisor and Dean; a comprehensive examination may be required as a condition for validating credit.

Catalog of Graduation

General and specific requirements for graduate degrees may be altered in successive catalogs, but the student who has maintained registration (see *Maintaining Registration*) is bound only by the requirements of the catalog in force at the time of admission to the graduate program, and within the six year limit. At the student's discretion, the requirements as stated in a subsequent catalog may be elected. No degree will be granted on the basis of requirements listed in a catalog issued more than six years prior to the date of graduation. In the event that certain required courses are discontinued, substitutions may be authorized or required by the student's Graduate Advisor and Dean.

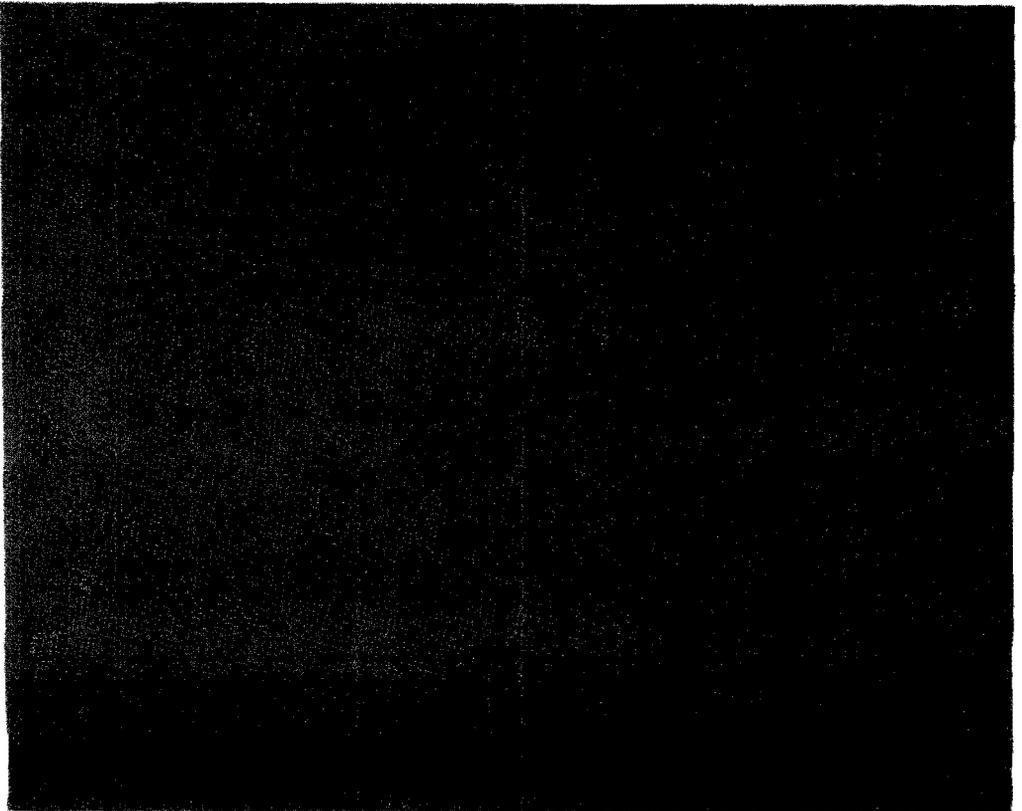
Application for a Degree

All degree candidates must officially apply for their degrees 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.

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
Graduate
Degree Programs and
Support Areas For 1975-77



SUMMARY OF GRADUATE DEGREE PROGRAMS AND SUPPORT AREAS FOR 1975-77

The following graduate degree programs are available during 1975-77.¹ Detailed requirements for each degree are found in Section VIII of the present catalog.

Master of Business Administration Degree

Business
Interamerican Management

Master of Arts Degree

Bicultural-Bilingual Studies

- Concentrations: (1) Bicultural-Bilingual Teacher Education
(2) Bicultural Studies
(3) English as a Second Language

Education

- Concentrations: (1) Cultural Foundations of Education
(2) Curriculum and Instruction
(3) Early Childhood and Elementary Education
(4) Educational Management
(5) Educational Psychology
Counseling and Guidance
Special Education
(6) Institutions of Higher Education

English

Environmental Management

- Concentrations: (1) Management of Human Resources
(2) Urban Studies

¹Course offerings in graduate degree programs may be postponed if facilities are unavailable or if enrollments or resource and space limitations do not warrant their implementation.

History

Spanish

- Concentrations: (1) Hispanic Culture
(2) Hispanic Literatures
(3) Spanish Language

Master of Fine Arts Degree

Art

Master of Science Degree

Biology

Chemistry

Environmental Management

- Concentration: (1) Management of Natural Resources

Mathematics, Computer Science, and Systems Design

Additional graduate courses are available in the following support areas during 1975-77.²

Anthropology

Art History and Criticism

Earth Science

Comparative Literature

Geography

Linguistics

Music

Physical Science

Political Science

Sociology

²Course offerings in graduate support areas 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. Graduate Degree
Programs and Courses
And Support Courses



College of Business

The College of Business recognizes as its primary thrust the preparation of students for careers throughout business and other administrative environments which include various combinations of leader-manager-administrator-entrepreneur. This is to be accomplished by offering a forward looking curriculum by a faculty concerned with bringing together knowledge from many disciplines. Student preparation to face an ever changing future focuses on organizing scarce resources to achieve (1) a given end; (2) mastery of written and oral communications; (3) understanding people and how to work effectively with them; and (4) an appreciation of the changing nature of the role of the manager.

MASTER OF BUSINESS ADMINISTRATION DEGREE IN BUSINESS

The Master of Business Administration Degree in Business is designed to provide intensive education to qualified graduate students and is available to individuals with undergraduate degrees in the business administration areas, as well as to those with specializations outside the business field.

Students whose previous training has been in non-business fields may be admitted to the M.B.A. Program in Business but are required as a condition of admission to complete, in total or in part, depending upon the background of each student, a core of professional courses or their equivalents. The professional courses are open only to graduate students and are in addition to degree requirements of the M.B.A. in Business.

Special Admission Requirements. For unconditional admission to the M.B.A. program in Business, applicants must meet university-wide graduate admission requirements. Those who have not met the requirement of 18 semester hours of course work in the business area receive conditional admission to complete those professional courses or their equivalents which they are lacking. No credit for these courses may count toward degree requirements of the M.B.A. in Business.

The professional courses are:

ACC	5003	The Theory, Method, and Use of Accounting
↓BDS	5003	Quantitative Methods for Business Analysis
BDS	5013	Data Processing for Business Analysis
BLW	5003	Legal Environment of Business
ECO	5003	Economic Theory and Policy
↓FIN	5003	Administrative Finance
MGT	5003	Conceptual Paradigms of Management
MKT	5003	Marketing Theory

All applicants for admission to the M.B.A. Program in Business must take the Admission Test for Graduate Study in Business (ATGSB)¹ and submit results to the Director of Admissions *well in advance of the desired date of admission*. The score on the ATGSB is considered in determining the applicant's eligibility for admission to the program.

¹Applications for the ATGSB, or information on the test, may be obtained from the Educational Testing Service, Princeton, New Jersey 08540.

Degree Requirements. The M.B.A. program in Business requires 36 semester hours of work beyond any hours acquired in the above professional courses. All candidates for the M.B.A. Degree in Business are required to complete successfully the following core of 21 semester hours.

- ACC 5023 Accounting Analysis for Decision-Making²
- ECO 5023 Business Economics
- FIN 5023 Financial Management
- MGT 5023 Quantitative Methods in Business
- MGT 5033 Business Research Methods
- MGT 5903 Management Policy, Problems, and Trends
- MKT 5023 Marketing Management

Students for the M.B.A. Degree in Business may elect one of two options to complete the required 36 hours. Under Option I, students are required to complete the 21 semester hours of the above core, 9 semester hours of electives as approved by the Graduate Advisor and Dean, and 6 hours of Master's Thesis. Students who wish to utilize the non-thesis option, Option II, are required to complete the 21 semester hours of the above core, and 15 semester hours of electives as approved by the Graduate Advisor and Dean.

²Substitution for this course may be made with the permission of the Director, Division of Accounting and Business Data Systems and the Dean of the College.

MASTER OF BUSINESS ADMINISTRATION DEGREE IN INTERAMERICAN MANAGEMENT

In response to the geographical, commercial, and ethnic environments of The University of Texas at San Antonio, the College of Business offers the Master of Business Administration Degree in Interamerican Management. The fundamental objective of this degree program is to offer students an opportunity to gain perspective on commercial activities in a setting which is bilingual, transnational, and cross-cultural. To achieve this end, specific interamerican content courses have been developed, both as core requirements and in the specialization areas of marketing and finance. Arrangements with Latin American universities enable students to complete a portion of their work while residing outside the United States. The interamerican content courses and possibilities for foreign study are supplemented by research or internship requirements in the area of interamerican business. Students entering the degree program meet the normal admission requirements for the College of Business and are expected to be reasonably fluent in the Spanish language or to undertake Spanish language study concurrently with their work on the M.B.A. Degree in Interamerican Management.

Special Admission Requirements. Applicants for admission to the Master of Business Administration program in Interamerican Management are required to meet the same special admission requirements set out above for the Master of Business Administration Degree in Business.

Degree Requirements. All candidates for the M.B.A. Degree in Interamerican Management must complete the following core of 21 semester hours:

ACC	5023	Accounting Analysis for Decision-Making
BLW	5173	Legal Environment of Interamerican Business ³
ECO	5173	Managerial Economics for International Business ⁴
FIN	5023	Financial Management
MGT	5023	Quantitative Methods in Business
MGT	5173	Comparative Interamerican Administration ⁵
MGT	5903	Management Policy, Problems, and Trends

³Normally, at least two of these courses will be taken at a cooperating Latin American institution. An agreement is currently in effect with the Instituto Tecnológico y de Estudios Superiores de Monterrey, Mexico.

⁴Same as footnote 3 above.

- MGT 5173 Comparative Interamerican Administration⁵**
MGT 5903 Management Policy, Problems, and Trends

In addition to the above core, students desiring an M.B.A. Degree in Interamerican Management must complete 9 semester hours in one of the following areas of specialization:

A. Marketing

- MKT 5673 Institutions of Interamerican Marketing⁶**
MKT 5683 Import-Export Marketing⁷
MKT 3 Elective⁸ (3 hours)

B. Finance

- FIN 5673 Interamerican Banking and Financial Practices⁹**
ACC 5683 Tax Practices in Latin America¹⁰
FIN 3 Elective¹¹ (3 hours)

To complete the program, students choose either a major internship experience (6 semester hours) in a business engaged in interamerican operations or a combination of an elective in their field of specialization and a field project essay or short internship (3 semester hours).

- A. FIN 5966 or MKT 5966 Interamerican Business Internship**
B. FIN 5963 or MKT 5963 Interamerican Business Internship
or
FIN 5983 or MKT 5983 Interamerican Business Essay and 3 semester hours elective in field

⁵Normally, at least two of these courses will be taken at a cooperating Latin American institution. An agreement is currently in effect with the Instituto Tecnológico y de Estudios Superiores de Monterrey, Mexico.

⁶Same as footnote 5 above.

⁷Substitution for this course may be made with the permission of the Director, Division of Accounting and Business Data Systems and the Dean of the College.

⁸Same as footnote 5 above.

⁹Same as footnote 5 above.

¹⁰Same as footnote 5 above.

¹¹Same as footnote 5 above.

DIVISION OF ACCOUNTING AND BUSINESS DATA SYSTEMS

COURSE DESCRIPTIONS

ACCOUNTING

(ACC)

- 5003 THE THEORY, METHOD AND USE OF ACCOUNTING**
(3-0) 3 hours credit.
An intensive study of accounting as a tool to communicate financial information for planning, for analyzing and for controlling business enterprises directed toward decision making.
- 5023 ACCOUNTING ANALYSIS FOR DECISION-MAKING**
(3-0) 3 hours credit. Prerequisite: ACC 5003 or the equivalent.
The study of accounting and its uses by management in the decision-making process.
- 5033 CONTROLLERSHIP**
(3-0) 3 hours credit. Prerequisite: 24 hours of accounting or the equivalent.
A study of the accounting executive's role in the management of a business enterprise; the use of accounting information to manage; and the installation and evaluation of information systems.
- 5043 ADVANCED PROBLEMS IN AUDITING**
(3-0) 3 hours credit. Prerequisite: Undergraduate course in auditing or consent of instructor.
A study of current literature in auditing standards, reliability of evidential matter, special reports of not-for-profit organizations and reports to regulatory agencies.
- 5683 TAX PRACTICES IN LATIN AMERICA**
(3-0) 3 hours credit. Prerequisite: ACC 5023 or the equivalent.
A study of Latin American fiscal systems and practices in their relation to management and managerial accounting; includes tax laws and tax liability, reporting practices, and development of corporate accounting policy.
- 6013 CURRENT ACCOUNTING THEORY**
(3-0) 3 hours credit. Prerequisite: 24 hours of accounting or the equivalent.
A study of current accounting literature; accounting bulletins of the American Institute of Certified Public Accountants, Securities Exchange Commission accounting releases and other relevant material.
- 6023 CONTEMPORARY ACCOUNTING THOUGHT**
(3-0) 3 hours credit. Prerequisite: 24 hours of accounting or the equivalent.
A study of contemporary accounting issues in accounting research; cases and readings of current accounting literature; and the development and presentation of accounting research.

- 6033 SEMINAR IN PUBLIC ACCOUNTING PRACTICE**
 (3-0) 3 hours credit. Prerequisite: 24 hours of accounting or the equivalent.
 A study of the management of an accounting practice; areas of specialization in accounting; relations with other professionals and staff training and development.
- 6951-3 INDEPENDENT STUDY**
 1 to 3 hours credit. Prerequisites: Graduate standing and permission in writing (form available) of the instructor, the student's Graduate Advisor, and the Division Director and Dean of the College in which the course is offered.
 Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours will apply to the Master's degree.
- 6971-3 SPECIAL PROBLEMS**
 1 to 3 hours credit. Prerequisite: Consent of instructor. An organized course offering specialized study not normally or not often available as part of the regular course offerings. Special Problems Courses may be repeated for credit when the topics vary, but not more than 6 hours will apply to a Master's degree.
- 6983 MASTER'S THESIS**
 (3-0) 3 hours credit. Prerequisites: Admission to candidacy and permission of the Graduate Advisor and thesis director. Thesis research and preparation. May be repeated for credit, but not more than 6 hours will apply to the Master's degree. Credit will be awarded upon completion of the thesis. Enrollment is required each term in which the thesis is in progress.

COURSE DESCRIPTIONS

BUSINESS DATA SYSTEMS

(BDS)

- 5003 QUANTITATIVE METHODS FOR BUSINESS ANALYSIS**
 (3-0) 3 hours credit. Prerequisite: MAT 1011 or its equivalent.
 Emphasizes quantitative methods for business research. Topics will include forecasting, time series, index numbers, quality control, statistical techniques for behavioral research and queuing models.
- 5013 DATA PROCESSING FOR BUSINESS ANALYSIS**
 (3-0) 3 hours credit. Prerequisite: Consent of instructor.
 Emphasizes computer methods in business research. Research topics addressed include payroll systems, investment analysis, production analysis, input/output systems, and marketing survey analysis. Must be taken concurrently with BDS 5003.

DIVISION OF ECONOMICS AND FINANCE

COURSE DESCRIPTIONS

BUSINESS LAW

(BLW)

- 5003 **LEGAL ENVIRONMENT OF BUSINESS**
(3-0) 3 hours credit.
Intensive study of law of contracts, negotiable instruments, sales, bankruptcy, agencies, partnerships and corporations, and wills and estates.
- 5173 **LEGAL ENVIRONMENT OF INTERAMERICAN BUSINESS**
(3-0) 3 hours credit. Prerequisite: BLW 5003 or the equivalent.
Essentials of Latin American commercial law; recognized forms of business organization; corporate structure and liability; government regulation and antitrust policy; law of international commerce.

COURSE DESCRIPTIONS

ECONOMICS

(ECO)

- 5003 **ECONOMIC THEORY AND POLICY**
(3-0) 3 hours credit.
Intensive study of micro- and macro-economic concepts; the price system as it functions under competition; monopoly and partial monopoly; national income measurement and determination; business cycles; money and banking; monetary policy; fiscal policy and economic stabilization.
- 5023 **BUSINESS ECONOMICS**
(3-0) 3 hours credit. Prerequisite: ECO 5003 or the equivalent.
The application of price theory to problems of the firm. Actual case studies will be utilized.
- 5173 **MANAGERIAL ECONOMICS FOR INTERNATIONAL BUSINESS**
(3-0) 3 hours credit. Prerequisite: ECO 5003 or the equivalent.
Application of economic theory to managerial decision-making in an international context; includes objectives of the firm, demand estimation, production decisions, pricing and profit strategies, long-run planning, and the effects of international commercial policies and monetary variables on transnational operations.
- 5223 **MONETARY THEORY**
(3-0) 3 hours credit. Prerequisites: ECO 5023 and FIN 5023 or their equivalents.
Analysis of money in the economic system from both micro- and macro-economic points of view; definitions of money, money supply, demand for money, velocity and turnover, role of near monies, and interest rate theory; consideration of monetary policy alternatives.
- 5253 **ECONOMICS OF PUBLIC FINANCE AND TAXATION**
(3-0) 3 hours credit. Prerequisites: ECO 5023 and FIN 5023 or their equivalents.
Relation of economic theory to systems of taxation and specific

types of taxes; incidence, equity, and efficiency of various taxes; emphasis on U.S. tax structure at federal, state, and local levels.

- 5423 **PROBLEMS OF THE LATIN AMERICAN ECONOMIES**
(3-0) 3 hours credit. Prerequisite: ECO 5023 or ECO 5173 or their equivalents.
Survey of problems relating to the economic development of selected Latin American countries; structural problems, balance of payments, foreign investment and foreign aid; emphasis on current issues.
- 5463 **ECONOMICS OF REGIONAL DEVELOPMENT**
(3-0) 3 hours credit. Prerequisite: ECO 5023 or ECO 5173 or their equivalents.
Locational analysis of economic activities; structure of regions and their economic base; growth poles and theories of regional growth; geographical and cultural determinants; strategies for area economic development.
- 5813 **INTERNATIONAL ECONOMICS AND DEVELOPMENT**
(3-0) 3 hours credit. Prerequisite: ECO 5003 or the equivalent.
Economic forces in international commerce; balance of payments and monetary relations; theories of international trade; relation of trade and international assistance to general economic development.
- 5913 **ANTITRUST — LEGAL AND ECONOMIC ANALYSIS**
(3-0) 3 hours credit. Prerequisite: ECO 5003 or the equivalent.
An analysis of promoting and protecting competition through law. Antitrust implications of the managerial process are to be examined and evaluated.
- 6303 **ECONOMICS OF HUMAN RESOURCES**
(3-0) 3 hours credit. Prerequisite: ECO 5003 or the equivalent.
An economic study of the education process, rates of return and investment in human resources such as health and on-the-job training. Educational planning, production and economic growth are analyzed. This course may also be taken as ENV 6303.
- 6313 **LABOR ECONOMICS**
(3-0) 3 hours credit. Prerequisite: ECO 5003 or the equivalent.
Survey of wage theory; wage determination and structure of labor markets; employment opportunities, economic security, leisure, and effects of technological change; collective bargaining and problems of organized labor. This course may also be taken as ENV 6313.
- 6363 **MANPOWER POLICY**
(3-0) 3 hours credit. Prerequisite: ECO 5003 or the equivalent.
Projecting of labor needs and the evolution of economic society and the development of labor force skills to supply these needs. Alternative choices of resources and public programs available at the local, state, and national levels to assist in the efficient utilization of human resources. This course may also be taken as ENV 6363.

- 6373 ECONOMICS OF POVERTY**
 (3-0) 3 hours credit. Prerequisite: ECO 5003 or the equivalent.
 A study of the causes of poverty and of the ways society provides the means of livelihood for those who are unable to care for themselves due to unemployment, age, illness, or other disabilities. This course may also be taken as ENV 6373.
- 6553 URBAN ECONOMICS**
 (3-0) 3 hours credit. Prerequisite: ECO 5003 or the equivalent.
 A study of the economic dimensions of cities. Specific areas covered are location theory, alternative uses of existing natural resources, the labor force, transportation, poverty, and other factors related to the economic development of urban areas. This course may also be taken as ENV 6553.
- 6951-3 INDEPENDENT STUDY**
 1 to 3 hours credit. Prerequisites: Graduate standing and permission in writing (form available) of the instructor, the student's Graduate Advisor, and the Division Director and Dean of the College in which the course is offered.
 Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours will apply to the Master's degree.
- 6971-3 SPECIAL PROBLEMS**
 1 to 3 hours credit. Prerequisite: Consent of Instructor.
 An organized course offering specialized study not normally or not often available as part of the regular course offerings. Special Problems Courses may be repeated for credit when the topics vary, but not more than 6 hours will apply to a Master's degree.
- 6983 MASTER'S THESIS**
 (3-0) 3 hours credit. Prerequisites: Admission to candidacy and permission of the Graduate Advisor and thesis director.
 Thesis research and preparation. May be repeated for credit, but not more than 6 hours will apply to the Master's degree. Credit will be awarded upon completion of the thesis. Enrollment is required each term in which the thesis is in progress.

COURSE DESCRIPTIONS

FINANCE (FIN)

- 5003 ADMINISTRATIVE FINANCE**
 (3-0) 3 hours credit. Prerequisite: ACC 5003 or the equivalent.
 Intensive study of the financial dimensions of business enterprise; financial organization structures; financing of business operations; capitalization; refunding and re-organization.
- 5023 FINANCIAL MANAGEMENT**
 (3-0) 3 hours credit. Prerequisite: FIN 5003 or the equivalent.
 A study of the methodology used by the financial manager in the

- financing of various operations of a business enterprise such as planning, requisition and management of funds.
- 5673 **INTERAMERICAN BANKING AND FINANCIAL PRACTICES**
 (3-0) 3 hours credit. Prerequisite: FIN 5023 or the equivalent.
 Structure of Latin American commercial banking; the money market and central bank practices; sources of funds and financial intermediaries; relation of banking climate to corporate financial policies.
- 5713 **FINANCIAL INTERMEDIARIES**
 (3-0) 3 hours credit. Prerequisite: FIN 5003 or the equivalent.
 The "money market" and the development, organization, and operation of the supporting financial institutions.
- 5733 **OPERATION AND ADMINISTRATION OF COMMERCIAL BANKS**
 (3-0) 3 hours credit. Prerequisite: FIN 5023 or the equivalent.
 Study of policy problems of the management of a commercial bank and the environment in which banks function; emphasis on asset and liability management in relation to the total community; branching, mergers, growth, legislation and regulation will be considered.
- 5813 **CAPITAL FORMATION AND BUDGETING**
 (3-0) 3 hours credit. Prerequisite: FIN 5023 or the equivalent.
 Analysis of the cost-of-capital concepts and capital budgeting as these are associated with the micro and macro approach to finance.
- 5833 **INTERNATIONAL TRADE AND FINANCE**
 (3-0) 3 hours credit. Prerequisites: FIN 5003 and ECO 5002 or their equivalents.
 The financing function in international business; underlying forces in trade among nations and regions; monetary variables and money markets; exchange rates, hedging, and arbitrage; finance of multinational operations and investments.
- 5913 **INVESTMENT PROBLEMS**
 (3-0) 3 hours credit. Prerequisite: FIN 5023 or the equivalent.
 Measuring and evaluating risk possibilities as they relate to public and private debt, government regulation of securities markets and taxation.
- 5963-6 **INTERAMERICAN BUSINESS INTERNSHIP**
 (3-6) 3 or 6 hours credit. Prerequisite: Consent of Division Director and Dean.
 Work experience in interamerican business or public agency.
- 5983 **INTERAMERICAN BUSINESS ESSAY**
 (3-0) 3 hours credit. Prerequisite: Consent of Division Director and Dean.
 Original research report on an interamerican management topic.
- 6633 **FINANCING URBAN DEVELOPMENT**
 (3-0) 3 hours credit.

A study of the various sources of revenues available to finance the development of cities. An evaluation of the favorable and unfavorable dimensions of these various funding sources. Cost benefit analysis is used to evaluate the alternatives as they affect city development.

6951-3 INDEPENDENT STUDY

1 to 3 hours credit. Prerequisites: Graduate standing and permission in writing (form available) of the instructor, the student's Graduate Advisor, and the Division Director and Dean of the College in which the course is offered.

Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours will apply to the Master's degree.

6971-3 SPECIAL PROBLEMS

1 to 3 hours credit. Prerequisite: Consent of instructor.

An organized course offering specialized study not normally or not often available as part of the regular course offerings. Special Problems Courses may be repeated for credit when the topics vary, but not more than 6 hours will apply to a Master's degree.

6983 MASTER'S THESIS

(3-0) 3 hours credit. Prerequisites: Admission to candidacy and permission of the Graduate Advisor and thesis director.

Thesis research and preparation. May be repeated for credit, but not more than 6 hours will apply to the Master's degree. Credit will be awarded upon completion of the thesis. Enrollment is required each term in which the thesis is in progress.

DIVISION OF MANAGEMENT

COURSE DESCRIPTIONS

MANAGEMENT

(MGT)

- 5003 CONCEPTUAL PARADIGMS OF MANAGEMENT**
(3-0) 3 hours credit.
Intensive study of the various theoretical constructs of the spectrum of organization and management theories including the process, empirical, behavioral and quantitative approaches.
- 5023 QUANTITATIVE METHODS IN BUSINESS**
(3-0) 3 hours credit. Prerequisites: BDS 5003 and BDS 5013 or their equivalents.
The application of mathematical statistical techniques to the solution of business and economic problems. The course is intended to provide the quantitative methods foundations needed for students in the M.B.A. program in order to permit a better understanding of operations analysis, management as a science and research in the social sciences.
- 5033 BUSINESS RESEARCH METHODS**
(3-0) 3 hours credit. Prerequisite: Graduate standing.
Theory of methods used in conducting research in business, evaluation of major sources of business information, analysis of organization in writing research reports and problems in the major forms of business research.
- 5043 ORGANIZATIONAL DYNAMICS**
(3-0) 3 hours credit. Prerequisite: MGT 5003 or the equivalent.
Study of individual, interpersonal, and intergroup behavior in organizations. Focuses on problems of formal and informal organization, communications, motivation, change, conflict, cooperation, influence and authority.
- 5053 ORGANIZATIONAL COMMUNICATIONS**
(3-0) 3 hours credit. Prerequisite: MGT 5003 or the equivalent.
A survey of theoretical and functional aspects of organizational communication stressing interpersonal, intra and interorganizational, and intercultural communication.
- 5063 COMMUNICATION AUDITING IN ORGANIZATIONS**
(3-0) 3 hours credit. Prerequisites: MGT 5023 and MGT 5053 or their equivalents.
This course stresses the methodology of detecting and correcting organizational malfunctioning arising from individual or organizational communication audit, including sampling techniques, data gathering techniques (questionnaire, interview, observation) and data analysis.
- 5103 ORGANIZATIONAL SYSTEMS ANALYSIS**
(3-0) 3 hours credit. Prerequisite: MGT 5003 or the equivalent.
An intensive course covering current literature relating to man-

agement theory and enterprise leadership. This course may also be taken as ENV 5103.

- 5123 **COMPARATIVE ADMINISTRATION**
(3-0) 3 hours credit. Prerequisite: MGT 5003 or the equivalent. Analysis of various attributes and patterns of administration in public or private enterprises operating in widely differing economic, sociocultural, educational, and technological environments. Focus on the identification and evaluation of similarities and differences among variables associated with organizations to gain a better understanding of administrative processes.
- 5143 **MANAGERIAL PROCESS**
(3-0) 3 hours credit. Prerequisite: MGT 5003 or the equivalent. Focus on the functions of the manager including planning, staffing, organizing, directing, and controlling. Emphasizes the process "school" of management.
- 5153 **SOCIAL ISSUES IN BUSINESS**
(3-0) 3 hours credit. Prerequisite: MGT 5003 or the equivalent. Focus on the forces surrounding the secularly oriented, technologically energized, and scientifically administered business sector of Western society. Develops an understanding of the underlying and basic forces that have fostered and shaped business. Emergence of the social responsibility ethic is examined.
- 5173 **COMPARATIVE INTERAMERICAN ADMINISTRATION**
(3-0) 3 hours credit. Prerequisite: MGT 5003 or the equivalent. Comparative study of Latin American and U.S. management structures and practices; institutional and behavioral considerations affecting goals and strategy; relation of administrative behavior to central government policy.
- 5203 **MANAGERIAL STRATEGY AND SYSTEMS**
(3-0) 3 hours credit. Prerequisite: MGT 5003 or the equivalent. Development of a conceptual framework for strategy, its definition, elements, and relationships to the basic functions of managing. Analysis of directional action decisions required to achieve the organization's purposes.
- 5333 **SMALL BUSINESS DEVELOPMENT AND OPERATION**
(3-0) 3 hours credit. Prerequisite: MGT 5003 or the equivalent. Includes the development of new business organizations, joint ventures, mergers and acquisition, and new products services. Conceptualization of the managerial role in emerging enterprises.
- 5373 **SIMULATION ANALYSIS OF BUSINESS SYSTEMS**
(3-0) 3 hours credit. Prerequisites: BDS 5003 and BDS 5013 or their equivalents
The application of simulation techniques in the analysis of a variety of business systems. Examples will include accounting, finance, economics, marketing, and management systems.
- 5393 **PRODUCTION MANAGEMENT**
(3-0) 3 hours credit. Prerequisites: MGT 5003 and MGT 5023 or

their equivalents.

An analysis of the management functions related to production: planning, design, construction control, and operational control. Special topics will include forecasting, project management via CPM/PERT, plant location and layout, production scheduling, quality control, job design and analysis, and inventory management.

5623 INDUSTRIAL RELATIONS

(3-0) 3 hours credit.

An analysis of collective bargaining systems in organizations. Emphasis placed on the roles of management, unions, and government in collective bargaining and agreement administration.

5643 PERSONNEL MANAGEMENT PROCESS

(3-0) 3 hours credit. Prerequisite: MGT 5003 or the equivalent.

Management's approach to and the techniques for handling the human factor in an enterprise to maximize the productive efficiency of the firm through sound procurement, development, utilization, and maintenance of its human resources. Focus on behavioral and social science findings as they relate to work and their implications for personnel philosophy, policy, and practice.

5903 MANAGEMENT POLICY, PROBLEMS, AND TRENDS

(3-0) 3 hours credit. Prerequisite: Permission of the Graduate Advisor.

A case study course intended to provide a capstone coverage of material taken in the M.B.A. program, as well as broadening the horizons of the student beyond the focus on the firm. The macro-economic aspects of our economy and contemporary problems and trends of business are covered.

6951-3 INDEPENDENT STUDY

1 to 3 hours credit. Prerequisites: Graduate standing and permission in writing (form available) of the instructor, the student's Graduate Advisor, and the Division Director and Dean of the College in which the course is offered.

Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours will apply to the Master's degree.

6971-3 SPECIAL PROBLEMS

1 to 3 hours credit. Prerequisite: Consent of instructor.

An organized course offering specialized study not normally or not often available as part of the regular course offerings. Special Problems Courses may be repeated for credit when the topics vary, but not more than 6 hours will apply to a Master's degree.

6983 MASTER'S THESIS

(3-0) 3 hours credit. Prerequisites: Admission to candidacy and permission of the Graduate Advisor and thesis director.

Thesis research and preparation. May be repeated for credit, but not more than 6 hours will apply to the Master's degree. Credit will be awarded upon completion of the thesis. Enrollment is required each term in which the thesis is in progress.

COURSE DESCRIPTIONS

MARKETING (MKT)

- 5003 MARKETING THEORY**
(3-0) 3 hours credit.
Intensive study of the marketing function in business and the theoretical constructs in price determination, distribution of goods, promotion, and organization policies. Emphasis on the time and possession utility functions.
- 5023 MARKETING MANAGEMENT**
(3-0) 3 hours credit. Prerequisite: MKT 5003 or the equivalent.
A study of current problems in the area of marketing management. Marketing practices and thought are analyzed along with an intensive evaluation of the current literature.
- 5043 THEORY OF CONSUMER BEHAVIOR**
(3-0) 3 hours credit. Prerequisite: MKT 5023 or the equivalent.
Analysis of the consumer as the focal point of the economic system.
- 5063 THEORY OF MARKETING RESEARCH**
(3-0) 3 hours credit. Prerequisite: MKT 5023 or the equivalent.
Problems in obtaining and analyzing internal and external marketing information using various instruments, design and techniques germane to marketing.
- 5083 PROMOTION MANAGEMENT**
(3-0) 3 hours credit. Prerequisite: MKT 5003 or the equivalent.
Analysis of procedures and policies in creation and introduction of products, firm expansion, legislation; readings, cases, reports.
- 5103 PROBLEMS IN MARKETING MANAGEMENT**
(3-0) 3 hours credit. Prerequisite: MKT 5023 or the equivalent.
Case problems in marketing. Designed to give the student an opportunity to utilize the material and analytical tools that have been acquired.
- 5123 ANALYSIS OF THE SALES FUNCTION**
(3-0) 3 hours credit. Prerequisite: MKT 5003 or the equivalent.
The selecting, training, motivating and compensating of salespersons plus the strategy, tactics, budgeting and forecasting of sales and sales forces.
- 5143 MANAGEMENT OF TRANSPORTATION SYSTEMS**
(3-0) 3 hours credit. Prerequisite: MKT 5003 or the equivalent.
Characteristics and critical comparisons of various transportation methods, the use of transportation as a component of the

distribution system, rate making, labor problems, functions of the ICC, CAB and other regulatory groups, cartels, consideration of new concepts such as the increase in freight forwarders, unit trains and containerization.

- 5673 **INSTITUTIONS OF INTERAMERICAN MARKETING**
(3-0) 3 hours credit. Prerequisite: MKT 5023 or the equivalent. Analysis of the wholesaling and retailing institutions of marketing; emphasis upon comparative development of institutions in international marketing; special analysis of Latin American institutions.
- 5683 **IMPORT-EXPORT MARKETING**
(3-0) 3 hours credit. Prerequisite: MKT 5023 or the equivalent. Analysis of theory and practice of import-export operations between North America and Latin America. Special attention to actual practices and procedures of current operations, role of middlemen, customs, and transportation.
- 5693 **CONSUMER BEHAVIOR AND TRANSNATIONAL MARKETING RESEARCH**
(3-0) 3 hours credit. Prerequisite: MKT 5023 or the equivalent. Analysis of the relationship between consumer behavior and marketing research and their role in the marketing process; emphasis on research of international markets.
- 5963-6 **INTERAMERICAN BUSINESS INTERNSHIP**
(3-6) 3 or 6 hours credit. Prerequisite: Consent of Division Director and Dean.
Work experience in interamerican business or public agency.
- 5983 **INTERAMERICAN BUSINESS ESSAY**
(3-0) 3 hours credit. Prerequisite: Consent of Division Director and Dean.
Original research report on interamerican management topic.
- 6951-3 **INDEPENDENT STUDY**
1 to 3 hours credit. Prerequisites: Graduate standing and permission in writing (form available) of the instructor, the student's Graduate Advisor, and the Division Director and Dean of the College in which the course is offered.
Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours will apply to the Master's degree.
- 6971-3 **SPECIAL PROBLEMS**
1 to 3 hours credit. Prerequisite: Consent of instructor.
An organized course offering specialized study not normally or not often available as part of the regular course offerings. Special Problems Courses may be repeated for credit when the topics vary, but not more than 6 hours will apply to a Master's degree.

6983 MASTER'S THESIS

(3-0) 3 hours credit. Prerequisites: Admission to candidacy and permission of the Graduate Advisor and thesis director. Thesis research and preparation. May be repeated for credit, but not more than 6 hours will apply to the Master's degree. Credit will be awarded upon completion of the thesis. Enrollment is required each term in which the thesis is in progress.

College of Fine and Applied Arts

The College of Fine and Applied Arts will provide the best possible education in the visual arts and music at undergraduate (pre-professional) and graduate (professional) levels. The major fields of study will prepare students for careers in art and music. Conceptual and visual awareness as well as technical ability are at the core of the programs of study which will stress, ultimately, creative and intellectual development.

Pending completion of permanent facilities, graduate programs and courses in art and music will be limited to those which can be offered in temporary facilities.

DIVISION OF ART AND DESIGN

MASTER OF FINE ARTS DEGREE

The College of Fine and Applied Arts considers the M.F.A. degree to be the terminal degree in the studio field and the equivalent of the Ph.D. in research fields. The M.F.A. degree program is based on the premise that the student should not only be proficient in his major field but should also have been educated in minor related fields.

The objectives of the M.F.A. degree are to 1) provide advanced study in studio art in preparation for professional careers, and 2) to prepare students to teach studio art at the college and university level.

Special Admission Requirements. In addition to satisfying the university-wide graduate admission requirements, applicants are expected to have a Bachelor of Fine Arts Degree or a Bachelor of Arts Degree with a major in art or its equivalent. As part of their undergraduate degree students should have had approximately 42 hours in studio art and 18 hours in art history (students accepted into the M.F.A. program who have fewer than the 18 hours required in art history will be given a comprehensive examination early during their first semester to determine if those deficiencies may be waived).

Applicants must submit slides of work (no portfolio unless requested), a statement of intent, and letters of recommendation to the Division of Art and Design. For specific details the student should contact the Office of Admissions or the Division of Art and Design.

Degree Requirements.

Major field (painting; drawing; sculpture; photography; printmaking; ceramics; or jewelry)	18 hours
Minor field (studio courses other than major)	9 hours
Art history and criticism	15 hours
Additional courses (including one graduate)	6 hours

level course outside the College of Fine and Applied Arts)

Master's Exhibition	6 hours
Master's Thesis	6 hours
	—
	60 hours

For the Master of Fine Arts Degree, a thesis is required. The thesis will deal generally with topics related to the student's creative work with an emphasis on critical and historical considerations. Other topics may be chosen by the student in consultation with the thesis committee.

In addition to the written thesis M.F.A. candidates are required to have a Master's Exhibition as the culminating point of their graduate studies.

COURSE DESCRIPTIONS

ART

- 5153 **PAINTING**
(2-4) 3 hours credit. Prerequisite: B.F.A. or B.A. with an art or related study concentration.
Painting techniques in various media with emphasis on the development of mature imagery.
- 5253 **DRAWING**
(2-4) 3 hours credit. Prerequisite: B.F.A. or B.A. with an art or related study concentration.
Drawing techniques in various media with emphasis on the development of mature imagery.
- 5163 **ADVANCED PAINTING**
(2-4) 3 hours credit. Prerequisite: B.F.A. or B.A. with an art or related study concentration.
For students who have had considerable experience in technique and concepts in contemporary painting. Emphasis will be on individual direction and exploration.
- 5173 **PROBLEMS IN PAINTING**
(2-4) 3 hours credit. Prerequisite: B.F.A. or B.A. with an art or related study concentration.
Individually directed graduate projects. May be repeated for credit up to the maximum number of hours within the given M.F.A. requirement categories.
- 5263 **ADVANCED DRAWING**
(2-4) 3 hours credit. Prerequisite: B.F.A. or B.A. with an art or related study concentration.
Specific concerns of drawing as an end in itself as well as a basis for other media. Student should be cognizant of contemporary as well as traditional drawing attitudes.

- 5273 **PROBLEMS IN DRAWING**
 (2-4) 3 hours credit. Prerequisite: B.F.A. or B.A. with an art or related study concentration.
 Individually directed graduate projects. May be repeated for credit up to the maximum number of hours within the given M.F.A. requirement categories.
- 5653 **ADVANCED LITHOGRAPHY**
 (2-4) 3 hours credit. Prerequisite: B.F.A. or B.A. with an art or related study concentration.
 Approaches to sophisticated techniques of the lithographic process and emphasis on the development of mature imagery.
- 5663 **PROBLEMS IN LITHOGRAPHY**
 (2-4) 3 hours credit. Prerequisite: B.F.A. or B.A. with an art or related study concentration.
 Individually directed graduate projects. May be repeated for credit to the maximum number of hours within the given M.F.A. requirement categories.
- 5673 **PROBLEMS IN PRINTMAKING**
 (2-4) 3 hours credit. Prerequisite: B.F.A. or B.A. with an art or related study concentration.
 Individually directed graduate projects. May be repeated for credit to the maximum number of hours within the given M.F.A. requirement categories.
- 6946 **MASTER'S EXHIBITION**
 (0-12) 6 hours credit. Prerequisite: Major and minor course requirements concluded.
 Concentrated work in the major and minor fields with strong emphasis on the preparation of finished pieces for the concluding exhibition
- 6951-3 **INDEPENDENT STUDY**
 1 to 3 hours credit. Prerequisites: Graduate standing and permission in writing (form available) of the instructor, the student's Graduate Advisor, and the Division Director and Dean of the College in which the course is offered.
 Independent reading, research, discussion, and/or writing under the direction of faculty member. For student's needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours will apply to the Master's degree.
- 6971-3 **SPECIAL PROBLEMS**
 1 to 3 hours credit. Prerequisite: Consent of instructor.
 An organized course offering specialized study not normally or not often available as part of the regular course offerings. Special Problems Courses may be repeated for credit when the topics vary, but not more than 6 hours will apply to a Master's degree.
- 6983 **MASTER'S THESIS**
 (3-0) 3 hours credit. Prerequisites: Admission to candidacy and permission of the Graduate Advisor and thesis director. Thesis

research and preparation. May be repeated for credit, but not more than 6 hours will apply to the Master's degree. Credit will be awarded upon completion of the thesis. Enrollment is required each term in which the thesis is in progress.

COURSE DESCRIPTIONS

ART HISTORY AND CRITICISM

(AHC)

- 5203 RENAISSANCE ART OF NORTHERN EUROPE**
(3-0) 3 hours credit. Prerequisite: B.A. with an art history or related study concentration.
A study of fifteenth and sixteenth century painting in Germany and the Lowlands. A course stressing the development of the Renaissance style in northern Europe.
- 5263 RENAISSANCE ART AND ARCHITECTURE OF ITALY**
(3-0) 3 hours credit. Prerequisite: B.A. with an art history or related study concentration.
A study of fifteenth and sixteenth century painting, sculpture, and architecture in Italy. A course stressing the development of the Renaissance style in Florence, Rome, Venice, and other Italian cities.
- 5303 ART AND ARCHITECTURE OF SPAIN**
(3-0) 3 hours credit. Prerequisite: B.A. with an art history or related study concentration.
A study of Medieval Renaissance, and Baroque art and architecture of Spain. A course stressing architectural spaces and volumes as well as painting and sculpture of the retablos, yeserías (gilded and polychromed stucco decorations), and retablo facades.
- 5403 COLONIAL ART OF MEXICO, GUATEMALA, AND PERU**
(3-0) 3 hours credit. Prerequisite: B.A. with an art history or related study concentration.
A study of the art and architecture of New Spain, Guatemala, New Granada, Peru, and Upper Peru. A course stressing architectural spaces and volumes as well as painting and sculpture of the retablos, yeserías (gilded and polychromed stucco decorations), and retablo facades.
- 5503 PRE-COLUMBIAN ART AND ARCHITECTURE OF MESOAMERICA**
(3-0) 3 hours credit. Prerequisite: B.A. with an art history or related study concentration.
An art historical study of the architecture, sculpture, and painting of the Olmec, Izapan, Classic Maya, Zapotec, Classic Veracruz, Teotihuacán, Toltec-Maya, Mixtec, and Aztec peoples of Ancient Mexico and Guatemala. A course stressing a definition of styles, their durations, and extensions. Linguistic, geographic, and ethnic designations for these styles are retained for classificatory purposes only.

- 5603 **NINETEENTH AND TWENTIETH CENTURY ART OF EUROPE AND THE U.S.**
 (3-0) 3 hours credit. Prerequisite: B.A. with an art history or related study concentration.
 Traces the major developments in painting and sculpture in Europe from around 1800 to the recent past. U.S. art since 1900 will also be considered.
- 5703 **TWENTIETH CENTURY ART OF LATIN AMERICA**
 (3-0) 3 hours credit. Prerequisite: B.A. with an art history or related study concentration.
 A comparative study of twentieth century painting in Venezuela, Colombia, Peru, Chile, Argentina, and Mexico.
- 5713 **ART AND ARCHITECTURE OF MEXICO AND MEXICAN AMERICA**
 (3-0) 3 hours credit. Prerequisite: B.A. with an art history or related study concentration.
 A study of the missions, the Santos, and the works of twentieth century Mexican muralists and Mexican American artists. Cultural and artistic rather than present political boundaries are used as a basis for spatial definition of this study. The art of the American Southwest is treated as an integral part of New Spanish and Mexican art.
- 6803 **SEMINAR: ART CRITICISM**
 (3-0) 3 hours credit. Prerequisite: B.F.A. or B.A. with an art or related study concentration.
 An examination of the role and influence of the art critic both in the contemporary art world as well as the past.
- 6833 **STUDIES IN ART HISTORY**
 (3-0) 3 hours credit. Prerequisite: Consent of instructor.
 A concentrated, intensive study of specific bodies of work in terms of form and meaning leading to a definition of style and the placement of these works within art historical contexts. Topics include Maya Vase and Mural Painting; Mixtec and Nahuatl Codices (Picture books); fifteenth century Flemish painting; art of the U.S. since 1945; Japanese influence on nineteenth century French painting; Islamic influences in the art of Spain and Hispanic America and others. May be repeated for credit when the topics vary.
- 6971-3 **SPECIAL PROBLEMS**
 1 to 3 hours credit. Prerequisite: Consent of instructor.
 An organized course offering specialized study not normally or not often available as part of the regular course offerings. Special Problems Courses may be repeated for credit when the topics vary, but not more than 6 hours will apply to a Master's degree.

DIVISION OF MUSIC

COURSE DESCRIPTIONS

MUSIC

(MUS)

- 5003 **FOUNDATION OF MUSIC EDUCATION**
(3-0) 3 hours credit. Prerequisite: Bachelor of Music degree.
A study of historical, philosophical and psychological foundations of Music Education. This course also develops principles of Music Education.
- 5013 **TRENDS IN MUSIC EDUCATION**
(3-0) 3 hours credit. Prerequisite: Bachelor of Music degree.
A study of contemporary trends in music education in the elementary school, the middle school and the senior high school with reference to music of the Southwestern part of the United States.
- 5203 **ADVANCED CONDUCTING**
(2-4) 3 hours credit. Prerequisite: Bachelor of Music degree; students should have conducting experience.
A study of conducting techniques for the advanced conductor. Student should have conducting experience and analytical capabilities. Individual development will be emphasized in this course.
- 5213 **ADVANCED CHORAL TECHNIQUES**
(2-4) 3 hours credit. Prerequisite: Bachelor of Music degree; students should have previous experience as conductors of choral ensembles.
A study of choral techniques including development of tone, phrasing, diction, analysis of repertoire, rehearsal organization and style.
- 5303 **SURVEY OF MUSIC LITERATURE: 1400-1750**
(3-0) 3 hours credit. Prerequisite: Bachelor of Music degree.
A survey of the music of the Renaissance and Baroque periods. Included among the composers to be studied are Des Prez, Lassus, Victoria, Esquivel, Palestrina, Gabrieli, Schuetz, Monteverdi, Scarlatti, Bach and Handel. A research paper is expected.
- 5313 **TWENTIETH CENTURY MUSIC LITERATURE**
(3-0) 3 hours credit. Prerequisite: Bachelor of Music degree.
A study of compositional and structural characteristics of twentieth century music. Includes neo-classical, tone row, neo-romantic, indeterminate, electronic, pan-diatonic and neo-modal music.
- 6971-3 **SPECIAL PROBLEMS**
1 to 3 hours credit. Prerequisite: Consent of instructor.
An organized course offering specialized study not normally or not often available as part of the regular course offerings. Special Problems Courses may be repeated for credit when the topics vary, but not more than 6 hours will apply to a Master's degree.

College of Humanities and Social Sciences

Programs in the College of Humanities and Social Sciences aim at developing an appreciation of the multidisciplinary nature of knowledge and the abilities and willingness to use skills, methods, information, and theories developed by disciplines outside one's own field. The College will provide much of what is fundamental to a well-rounded, liberal education as well as its own degree specializations.

Undergraduate offerings are designed to develop general abilities in analytical thinking, and furnish the attitudes and information necessary to put these abilities into action. A simultaneous goal is to spark and develop broad interests in the student which will make him or her a self-generating person. Graduate offerings will particularly emphasize the multidisciplinary cultural approach with intensive, specialized career preparation – at the same time providing tailor-made degree plans commensurate with individual goals and objectives.

DIVISION OF ENGLISH, CLASSICS, AND PHILOSOPHY

MASTER OF ARTS DEGREE IN ENGLISH

The Master of Arts Degree in English is designed to provide the student with a general knowledge of English and American literature, an understanding of the historical context in which that literature was produced, the opportunity to develop skills of critical analysis, and an introduction to the principal kinds of literary research. The degree program prepares the student for a career in teaching in the secondary school or junior college, and it also affords the training and knowledge upon which further graduate study may be based.

Special Admission Requirements. In addition to satisfying the university-wide graduate admission requirements, the applicant must have completed at least eighteen semester hours of work (exclusive of freshman courses) in English with a grade-point average of B+ (3.3 on a 4.0 scale) in all work taken in English at the upper-division and graduate levels; the applicant must also submit scores on the Graduate Record Examination, both the Aptitude Test and the Advanced Test in Literature in English. These requirements may be waived in unusual circumstances upon the recommendation of the Division Director and the Dean of the College of Humanities and Social Sciences.

Degree Requirements. All candidates for the degree will be required to complete successfully 36 semester hours, including eight courses in core areas, and to pass the M.A. examination. Twelve hours will be taken as electives in English or, with the approval of the Graduate Advisor and Division Director, in a related discipline as part of a coherent program of study.

The M.A. examination, although it may be taken earlier, is normally taken in that semester in which the candidate is due to complete his graduate study. The examination is designed to test the student's general knowledge of the major figures, forms, and traditions of English and American literature as well as to evaluate his critical abilities.

A thesis is not written for the M.A. in English.

Core Areas

- ENG 5113 Bibliography and Research Methods
- ENG 5123 Theory of Literature
- ENG 5313 Renaissance Poetry
- ENG 5323 Shakespeare Studies
- ENG 5413 Eighteenth-Century Poetry or
- ENG 5513 Romantic Poetry
- ENG 5613 American Romanticism or
- ENG 5623 American Realism
- ENG 5713 Major British and American Authors of the Twentieth Century
- ENG 5813 History and Structure of the English Language

COURSE DESCRIPTIONS

ENGLISH (ENG)

- 5113 **BIBLIOGRAPHY AND RESEARCH METHODS**
(3-0) 3 hours credit.
Methods of literary study and research; the techniques of literary scholarship; basic bibliographical tools and format.
- 5123 **THEORY OF LITERATURE**
(3-0) 3 hours credit.
A survey of the principal theories and methods of literary analysis and interpretation; investigation of such topics as style and stylistics, genres, periodization, motifs and themes, and literary history.
- 5183 **PROBLEMS IN TEACHING ENGLISH**
(3-0) 3 hours credit.
Advanced study of materials for teaching English literature and composition in the secondary school and junior college; application of electronic media to teaching literature; application of rhetoric and linguistics to problems in the teaching of composition.
- 5213 **CHAUCER STUDIES**
(3-0) 3 hours credit.
Review of the Canterbury Tales, detailed study of Troilus and Criseyde, and reading of other poems. To be read in Middle English.
- 5313 **RENAISSANCE POETRY**
(3-0) 3 hours credit.
Critical survey of verse of the sixteenth and seventeenth centuries; emphasis on Spenser, Donne, Jonson, Herbert, and Marvell.
- 5323 **SHAKESPEARE STUDIES**
(3-0) 3 hours credit.
Reading and analysis of representative plays.

- 5333 **RENAISSANCE DRAMA**
(3-0) 3 hours credit.
Critical survey of the drama to 1642 (exclusive of Shakespeare); emphasis on Marlowe, Kyd, Jonson, Webster, and Middleton.
- 5343 **MILTON STUDIES**
(3-0) 3 hours credit.
Reading and analysis of the major poems and selected prose.
- 5413 **EIGHTEENTH-CENTURY POETRY**
(3-0) 3 hours credit.
Study of the transition from Neo-classicism to Romanticism; emphasis on the works of Dryden, Pope, Thomson, and Burns.
- 5423 **EIGHTEENTH-CENTURY FICTION**
(3-0) 3 hours credit.
Reading and analysis of representative works of fiction; emphasis on Defoe, Swift, Richardson, Fielding, Smollett, Sterne, and Austen.
- 5513 **ROMANTIC POETRY**
(3-0) 3 hours credit.
Reading and analysis of verse of the Romantic period; emphasis on Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats.
- 5523 **LITERATURE OF THE VICTORIAN PERIOD**
(3-0) 3 hours credit.
Critical survey of verse and prose (including fiction) of the Victorian period; emphasis on Dickens, Eliot, Browning, Tennyson, Arnold, and Hardy.
- 5613 **AMERICAN ROMANTICISM**
(3-0) 3 hours credit.
Reading and analysis of verse and prose (including fiction) of the American Romantic movement; emphasis on Poe, Hawthorne, Emerson, Thoreau, Melville, Dickinson, and Whitman.
- 5623 **AMERICAN REALISM**
(3-0) 3 hours credit.
Reading and analysis of prose (including fiction) of the Realists and Naturalists; emphasis on the work of Howells, Twain, Crane, James, and Dreiser.
- 5713 **MAJOR BRITISH AND AMERICAN AUTHORS OF THE TWENTIETH CENTURY**
(3-0) 3 hours credit.
Reading and analysis of the major works of Yeats, Shaw, Conrad, Joyce, Eliot, Virginia Woolf, and Faulkner.
- 5723 **RECENT AMERICAN LITERATURE**
(3-0) 3 hours credit.
The development of American literature from the 1920's to the present; emphasis on Stevens, Cummings, Moore, Lowell, and Plath; Fitzgerald, Hemingway, Bellow, Mailer, and Vonnegut.
- 5813 **HISTORY AND STRUCTURE OF THE ENGLISH LANGUAGE**
(3-0) 3 hours credit.

An historical study of the development of the sounds, structure, and vocabulary of English from its earliest recorded forms to the present.

5823 STRUCTURE OF AMERICAN ENGLISH

(3-0) 3 hours credit.

Introduction to formal analysis and description of the structural characteristics of American English on the phonological, morphological, syntactic, and semantic levels, with attention to regional and social variations.

6113 STUDIES IN ENGLISH AND AMERICAN LITERATURE

(3-0) 3 hours credit.

Detailed study of a topic in English and/or American literature. Topics may include: medieval literature, Restoration and eighteenth-century drama, American literature of the colonial period, modern drama. May be repeated for credit when topics vary.

6951-3 INDEPENDENT STUDY

1 to 3 hours credit. Prerequisites: Graduate standing and permission in writing (form available) of the instructor, the student's Graduate Advisor, and the Division Director and Dean of the College in which the course is offered.

Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours will apply to the Master's degree.

6971-3 SPECIAL PROBLEMS

1 to 3 hours credit. Prerequisite: Consent of instructor.

An organized course offering specialized study not normally or not often available as part of the regular course offerings. Special Problems Courses may be repeated for credit when the topics vary, but not more than 6 hours will apply to a Master's degree.

DIVISION OF FOREIGN LANGUAGES

MASTER OF ARTS DEGREE IN SPANISH

The Master of Arts in Spanish offers the student a view in depth of Hispanic literature, culture, and language through a series of courses in which the unity of the Hispanic world rather than its national components is stressed. Not limited to Peninsular and Spanish-American literatures, the program underlines the importance of borderland and enclave areas with special emphasis on the Southwestern United States. Elective courses in linguistics further the student's grasp of the Spanish language in its geographical, cultural, and social variations. Comparative literature elective courses permit the candidate an opportunity to place contributions of the Hispanic heritage in the context of world literature, to perceive relationships among cultures, and to discern what is uniquely Hispanic. Within the M.A. degree in Spanish, concentrations are offered in Hispanic culture, Hispanic literature, and Spanish language. The degree program in Spanish prepares the student for careers in scholarship, elementary, high school or college education, various branches of the government, business and social service.

Special Admission Requirements. In addition to satisfying the university-wide graduate admission requirements, applicants are expected to have a bachelor's degree with a major in Spanish or the equivalent and an adequate command of both written and oral Spanish. Strongly recommended is a minimum of four semesters of work in a second foreign language.

Degree Requirements. All candidates must complete:

- a. the core courses (9 hours)
- b. elected concentration courses (9 hours)
- c. the remaining requirements for Option I (6 hours and Thesis) or Option II (18 hours)
- d. comprehensive examination. An M.A. comprehensive examination, both written and oral, designed to test the student's general knowledge in the chosen field as well as to evaluate critical abilities is administered normally in the semester in which the candidate expects to receive the degree.

Core Courses¹²

- SPN 5323 The Hispanic Literary Tradition
- SPN 5833 Structure of Spanish
- SPN 6803 Hispanic Culture and Civilization

Concentrations Courses

Hispanic Culture

- SPN 5733 The History of Ideas in Spain and Spanish America
- SPN 6813 Seminar in Hispanic Cultures
- SPN 6823 Contemporary Hispanic Cultures

Hispanic Literatures

- SPN 5603 Masterpieces of Hispanic Literatures
- SPN 5643 Cervantes and *Don Quijote*
- SPN 6853 Theory of Literature

Spanish Language

- SPN 5843 History of the Spanish Language
- SPN 5863 Spanish Phonetics
- SPN 5883 Spanish Syntax

Option I

An additional six (6) semester hours of course work in Spanish or, with approval of the Graduate Advisor and Division Director, in a related discipline, and completion of a thesis (SPN 6983, six hours).

Option II

An additional eighteen (18) semester hours of course work in a related discipline in the student's concentration, or in other concentrations, as approved by the Graduate Advisor and Division Director.

COURSE DESCRIPTIONS

SPANISH

(SPN)

- 5323 THE HISPANIC LITERARY TRADITION
(3-0) 3 hours credit.
Foundation and evolution of literature in Spain, Spanish America, and frontierlands and enclaves where Spanish is the

¹²With approval of the Division Director and Graduate Advisor, other courses may be substituted to individualize a student's degree program.

- language of literature. Literary periods, genres and motifs and their continuity through time and space. Mutual contributions of Hispanic literatures and World Literature.
- 5333 **THE HISPANIC ORAL TRADITION**
(3-0) 3 hours credit.
A study of Hispanic "oral literature" (literary folklore), its structure and components. Analysis of oral types: myth, legend, saga, refrains, riddles, etc. The dynamics of oral tradition, its geographical dispersion in the Spanish-speaking world.
- 5373 **RESEARCH METHODS IN BIBLIOGRAPHY IN HISPANIC STUDIES**
(3-0) 3 hours credit.
Methods of research, basic bibliographical tools, critical terminology, techniques of scholarly writing, library procedures applied to Hispanic language, culture and literature.
- 5603 **MASTERPIECES OF HISPANIC LITERATURES**
(3-0) 3 hours credit.
Literary masterpieces as representatives of cultural "peaks," encompassing archetypal trends in style, theme selection and genre structure. The course will deal both with works of Spain and of Spanish America.
- 5623 **HISPANIC LITERATURE OF THE MIDDLE AGES**
(3-0) 3 hours credit.
Structure of the Spanish medieval period: Christian, Islamic and Judaic impact. Theories on the relations of the peninsula and Europe. The caste system, its influence on conceptions of the world. Castes and languages. Genres, themes, and poetic tongues. Diffusion of literature: traditionality. Literary genres and motifs. Hispania and Europe, interrelations.
- 5633 **HISPANIC RENAISSANCE LITERATURE**
(3-0) 3 hours credit.
A study of Hispanic Renaissance epics, poetry, prose and drama. Medieval survivals and Italian innovation. The Spanish awareness of the New World and its reflections in literature. Spaniards writing from Spanish America and their themes: landscape, man, ethics, of the Conquest.
- 5643 **CERVANTES AND *DON QUIJOTE***
(3-0) 3 hours credit.
A study of the narrative structure of the novel, its literary motifs, its stylistic devices, and its ideological background. The meaning of *Don Quijote* in Western tradition with emphasis on the novel's diffusion and influence in Spanish America up to today.
- 5663 **HISPANIC BAROQUE LITERATURE**
(3-0) 3 hours credit.
A study of Hispanic Baroque both in Spain and Spanish America. Literary genres, themes, style and ideological background will be dealt with. Góngora and "Gongorism," Lope de Vega and the drama, the structure and meaning of the pica-

resque novel, the pastoral novel, the *novela corta*, the *relación*, will be analyzed in their creation and spread. Particular emphasis on Mateo Alemán, Sor Juana Inés de la Cruz, Cervantes, Alonso Ovalle, the *comedia*, the *auto* and the *entremés*. The evolution of certain themes like the Don Juan theme will be particularly stressed.

- 5673 **HISPANIC ENLIGHTENMENT**
(3-0) 3 hours credit.
A study of eighteenth century literary genres in Spain and Spanish America. Analysis of the new rhetoric under the pervading French influence. Focus on the growing self-awareness of the Spanish-American writers and on their acceptance of European ideologies. Special attention to political writings appearing in newly founded periodicals.
- 5683 **NINETEENTH CENTURY SPANISH-AMERICAN LITERATURE**
(3-0) 3 hours credit.
A study of Spanish-American literary genres, themes, and styles. Emphasis on Spanish-American writers' relations to Peninsular and other European literatures. Focus on the historical, the *indianista* and the *costumbrista* narrative. Stress on *poesía gauchesca* and on the essays dealing with the image and function of Spanish-American man.
- 5693 **NINETEENTH CENTURY SPANISH LITERATURE**
(3-0) 3 hours credit.
A study of nineteenth century Spanish narrative, poetry and dramatics. Focus on genre structure, themes and style. Particular emphasis on Espronceda's poetry, Romantic drama and Galdós' novels. Diffusion and influence of Spanish and other European works in Spanish America.
- 5703 **TWENTIETH CENTURY SPANISH-AMERICAN LITERATURE**
(3-0) 3 hours credit.
Spanish-American literary genres, themes, and style. Modernism, Vanguardism and renovation of literature. The novel as vehicle of man and world from Latorre to Gallegos. Mistral, Neruda, Paz and the new poetry. The foundation and transcendence of the new narrative from Asturias to Rulfo. The Mexican-American contribution.
- 5713 **TWENTIETH CENTURY SPANISH LITERATURE**
(3-0) 3 hours credit.
Spanish literary genres, themes and styles. The Generation of '98 and its achievements. Ortega's poetics and its influence in literature up to the Spanish Civil War. Trends in post Civil War literature both in Spain and among *exiliados* and influence on Spanish America.
- 5733 **THE HISTORY OF IDEAS IN SPAIN AND SPANISH AMERICA**
(3-0) 3 hours credit.
Evolution and evaluation of essayistic literature in Spain and

- Spanish America dealing with man and his existential characteristics.
- 5803 **MEXICAN-AMERICAN LITERATURE**
(3-0) 3 hours credit.
Mexican-American literature in the realm of the Hispanic tradition. Similarities and divergences. Its ethnic, social and linguistic characteristics. Its correlation with various forms of artistic expression. Genres, themes and authors. Localism and universality.
- 5833 **STRUCTURE OF SPANISH**
(3-0) 3 hours credit.
Introduction to the formal framework of analysis and description of the structural characteristics of Spanish on the phonological, morphological, and syntactic levels with attention to structural features of Spanish-American variants.
- 5843 **HISTORY OF THE SPANISH LANGUAGE**
(3-0) 3 hours credit.
Chronological development of the Spanish language. Sound changes and morpho-syntactic changes as processes in a living community; attention given to linguistic features produced through cultural contacts and interaction.
- 5853 **STYLISTICS AND SEMANTICS**
(3-0) 3 hours credit.
Style as an individual and community set of expressive patterns seen as meaningful deviations from normative linguistic usage. Meaning through time, space, culture, and style variation. The theory of semantic fields and its application to Peninsular, Spanish-American, and Mexican-American literary and oral examples.
- 5863 **SPANISH PHONETICS**
(3-0) 3 hours credit.
Framework of articulatory phonetics applied to the description of Spanish. Attention given to regional and social variation. Practical application of phonetics to pronunciation problems.
- 5873 **STUDIES IN SPANISH GRAMMAR**
(3-0) 3 hours credit.
The norms of usage with regard to a wide range of problems in Spanish. Attention given to diagnosing and improving the written Spanish of the student.
- 5883 **SPANISH SYNTAX**
(3-0) 3 hours credit.
Introduction to the modern framework of grammatical description and the application of it to Spanish. Consideration of the major syntactic patterns in Spanish and their relevance for achieving an in-depth command of Spanish usage.
- 5893 **HISPANIC DIALECTOLOGY**
(3-0) 3 hours credit.
A study of regional and social variation of Spanish with regard

to pronunciation, grammar, and vocabulary. Special attention to San Antonio, Mexican-American, and Mexican Spanish.

- 6803 **HISPANIC CULTURE AND CIVILIZATION**
(3-0) 3 hours credit.
Historical analysis of cultural currents in Spain and Spanish America as reflected in various periods and works. Special attention to the dynamics of interchange between Spain, Spanish America and Spanish-speaking minorities.
- 6813 **SEMINAR IN HISPANIC CULTURES**
(3-0) 3 hours credit.
Studies of independent topics not covered in the regular sequence of Hispanic Culture courses. Stress will be on research. May be repeated for credit as the content varies.
- 6823 **CONTEMPORARY HISPANIC CULTURES**
(3-0) 3 hours credit.
A study of different aspects present in contemporary culture in Spain, Spanish America, and Spanish-speaking minorities. Analysis of Hispanic answers in fields as varied as religion, economics, literature, politics. Stress on the idea of a basic similarity in the Hispanic answer underlining the diversity of reactions to the challenges of the contemporary world.
- 6833 **SEMINAR IN HISPANIC LITERATURES**
(3-0) 3 hours credit.
Studies of independent topics not covered in the regular sequence of Hispanic Literature courses. Stress will be on research. May be repeated for credit as the content varies.
- 6843 **SEMINAR IN HISPANIC LINGUISTICS**
(3-0) 3 hours credit.
Studies of independent topics not covered in the regular sequence of Hispanic Linguistics courses. Stress will be on research. May be repeated for credit as the content varies.
- 6853 **THEORY OF LITERATURE**
(3-0) 3 hours credit.
Language as literature (meta-language). The foundations and structure of literary genres. Literary motifs and themes. Literary functions. Literature and History. Literature and Psychology. Literature and Sociology. Literature and Philosophy. Literature as symbolic form. Tradition and innovation in literary styles. The problems of literary history: period, style, generation, as historical units.
- 6951-3 **INDEPENDENT STUDY**
1 to 3 hours credit. Prerequisites: Graduate standing and permission in writing (form available) of the instructor, the student's Graduate Advisor, and the Division Director and Dean of the College in which the course is offered.
Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours will apply to the Master's degree.

6971-3 SPECIAL PROBLEMS

1 to 3 hours credit. Prerequisite: Consent of instructor.

An organized course offering specialized study not normally or not often available as part of the regular course offerings. Special Problems Courses may be repeated for credit when the topics vary, but not more than 6 hours will apply to a Master's degree.

6983 MASTER'S THESIS

(3-0) 3 hours credit. Prerequisites: Admission to candidacy and permission of the Graduate Advisor and thesis director. Thesis research and preparation. May be repeated for credit, but not more than 6 hours will apply to the Master's degree. Credit will be awarded upon completion of the thesis. Enrollment is required each term in which the thesis is in progress.

COURSE DESCRIPTIONS

COMPARATIVE LITERATURE

(CL)

5013 THEORY OF COMPARATIVE LITERATURE

(3-0) 3 hours credit.

The principles of comparison. Influence and imitation. Reception, diffusion and survival. Chronological measure in comparative literature: epoch, period, generation. Genre structure: origins, diffusion, variation. Subject matter: motifs, their diffusion and their combination. National literature, general literature, world literature and comparative literature.

5113 GRECO-ROMAN TRADITION

(3-0) 3 hours credit.

Occidental literature at its inception in Greco-Roman Antiquity. Themes, topoi and structures: their diffusion and persistence. Latin Middle Ages: their impact on European literature. Extension, expansion and variation of the classical tradition from the Middle Ages to the present day.

5123 MEDIEVAL LITERATURE

(3-0) 3 hours credit.

Romanesque and Gothic: a period approach to European Middle Ages. Imitation and innovation. Written literature and oral literature. Creation, transmission and audience. The literary types: the romance, the *chancon de geste*, lyrical poetry, drama. Literary motifs: diffusion, combination and distribution. The languages of literature: the Latin constant, development of national languages. Romania and Germania: profile, comparison and contrast.

5133 RENAISSANCE, MANNERISM, BAROQUE

(3-0) 3 hours credit.

A comparison of European literary styles and their ideological background from the 15th to the 17th centuries, encompassing the exhaustion of the "flamboyant" Gothic, the statement of a

Renaissance artistic convention, the manneristic crisis and the Baroque solution. Main representatives in Italy, France, Spain and England: synchronies and discronies. Literary structures and subject choice. *Ut pictura, poesis* and the "correspondence" of the arts.

5143 THE ENLIGHTENMENT

(3-0) 3 hours credit.

Genres. Themes. Authors. Emergence of a new Poetics. Literature as ideology. Emphasis on growth, expansion and variations of the novel from England to France to Germany. The Spanish situation. Literature in the New World.

5153 ROMANTICISM, REALISM, NATURALISM

(3-0) 3 hours credit.

Study of European, North and South American Literary styles from the termination of the Enlightenment to the end of the 19th century. Romanticism, Realism, Naturalism: poetics, genres, structures and thematic preferences. Discontent, rebellion and alienation: their impact on the hero and on the selection of motifs. Romantic agony and decadence in European and American literature.

6013 TRENDS IN 20TH CENTURY NARRATIVE

(3-0) 3 hours credit.

Dissolution of 19th century narrative standards. Establishment of a new system of principles dealing with time, space, plot and characterization. The writer and the public. The appearance of a new critique of the novel. Search for Existential thematic. Proust and Joyce: annunciation of the new era; Kafka: metaphysics of despair; T. Mann: destruction of bourgeois values; Sartre: *La littérature engagée*, European "nouveau roman" and the Latin American narrative boom. Emergence and expansion of popular forms of narrative: the mystery, science fiction, comics, photonovel. Mass media and counterculture.

6123 TRENDS IN TWENTIETH CENTURY POETRY

(3-0) 3 hours credit.

Movements and their doctrines: Trakl and Expressionism, Apollinaire and Cubism, Breton and Surrealism, J. R. Jiménez, V. Huidobro, P. Neruda and Ultraism. New approaches to poetic language: innovations in metrics and metaphor. Dissonance, image of the world, image of the self. Poetry and the metaphysical search for the human essence. Poetry and *engagement*: A. Cesare and poetry of negritude, T. S. Eliot and religious poetry, Neruda and social poetry. Developments in formal and structuralism criticism of poetry.

6133 TRENDS IN 20TH CENTURY THEATRE

(3-0) 3 hours credit.

Developments in contemporary drama. Jarry and the surrealist experience; Brecht and theatre of social responsibility; Sartre, Marcel, Camus and the Existentialist approach; Beckett, Ionesco and the theatre of the absurd. F. García Lorca, T. S.

Eliot, Christopher Fry and drama as poetry. O'Neil, Albee, Miller and the American Contribution. The theatre and the movie: study in divergence and convergence.

COURSE DESCRIPTIONS

LINGUISTICS

(LNG)

- 5013 **SOCIOLINGUISTICS**
(3-0) 3 hours credit. Prerequisite: LNG 3813 or equivalent or consent of instructor.
Theory, research, and field collection of data for the study of linguistic variation that can be related to social, economic, geographical, and other aspects of cultural groups in various societies.
- 5023 **PSYCHOLINGUISTICS**
(3-0) 3 hours credit. Prerequisite: LNG 3813 or equivalent or consent of instructor.
The study of the empirical evidence for linguistic hypotheses in human behavior, i.e., the validation of hypotheses about competence on the basis of actual performance. Relationship between first and second language acquisition and development; relationship between language and thought.
- 5043 **PHONOLOGY**
(3-0) 3 hours credit. Prerequisite: LNG 3813 or equivalent or consent of instructor.
Analysis of the sound systems of various languages and the formulation of descriptions to explain them. Readings in both structuralist and transformational distinctive feature descriptions.
- 5063 **THEORY OF SYNTAX**
(3-0) 3 hours credit. Prerequisite: LNG 3813 or equivalent or consent of instructor.
Analysis of grammatical problems and consideration of adequate ways of describing and explaining them.
- 5073 **HISTORICAL LINGUISTICS AND LANGUAGE FAMILIES**
(3-0) 3 hours credit. Prerequisite: LNG 3813 or equivalent or consent of instructor.
The comparison of historically related languages and the methods of reconstructing their common ancestor. The nature of language change. A survey of the family grouping of some of the languages of the world, with attention given to structural differences.
- 5083 **HISTORY OF LINGUISTICS**
(3-0) 3 hours credit. Prerequisite: LNG 3813 or equivalent or consent of instructor.
A history of the various stages of language study in the Western World, beginning with the Ancient Greeks and giving particular attention to the foundations of the modern period with Saussure and Bloomfield.

- 5093 **LANGUAGE VARIATION**
(3-0) 3 hours credit. Prerequisite: LNG 3813 or equivalent or consent of instructor.
Geographical variation of language, comprised of traditional dialectology and linguistic geography, including work with linguistic atlases. Social variation of language, with attention to its role in language change and the development of dialects.
- 5113 **COMPUTER-ASSISTED RESEARCH IN LANGUAGE STUDY**
(3-0) 3 hours credit. Prerequisite: LNG 3813 or equivalent or consent of instructor.
Familiarization with the capabilities and limitations of the computer in problems involving language. Learning and utilizing a computer language in linguistic analysis, literary text analysis, or any application where the data are essentially strings of words.
- 5123 **CONTRASTIVE LINGUISTICS**
(3-0) 3 hours credit. Prerequisite: LNG 3813 or equivalent or consent of instructor.
A comparison of the salient phonological, grammatical, and semantic features of various languages with explanation of the difficulties which the differences in structure cause the speaker of one language in learning another one.
- 5133 **SEMANTICS**
(3-0) 3 hours credit. Prerequisite: LNG 3813 or equivalent or consent of instructor.
The structure of meaning involving the arbitrary association of various morphemes with things and situations. The concept of the linguistic sign. Symbol and referent. Denotation and connotation.
- 5143 **LINGUISTIC STRUCTURES**
(3-0) 3 hours credit. Prerequisite: LNG 3813 or equivalent or consent of instructor.
The study of various languages from a structural point of view, not with the aim of learning to use the languages, but to gain perspective about the ways in which the form of language may differ.

DIVISION OF SOCIAL SCIENCES

THE MASTER OF ARTS DEGREE IN HISTORY

Objectives. The Master of Arts program in History is founded on two objectives. The first is to build an awareness of history as an intellectual enterprise and an identification with the scholars who carry it forward. While it is necessary to be acquainted with the findings of historians, it is also essential to appreciate the discipline as a scholarly venture and to participate actively in that venture.

The second objective is to examine in detail one of several areas of historical study, with cross-disciplinary coursework serving to broaden the student's ability to interpret historical data. The program of study incorporates an integrated body of formal courses, supervised study, and an original research project.

Degree Requirements. The Master's program consists of 27 credit hours of coursework in history plus 6 credit hours of thesis credit. With approval, up to 9 hours of coursework may be taken in fields other than history. During the first semester after admission to the program a plan of studies must be submitted to the Graduate Advisor. A comprehensive examination is administered at the conclusion of coursework, prior to beginning the Master's thesis. The thesis is based on original scholarship and is required of all degree students except those who, in the faculty's judgment, have previously completed equivalent scholarly work. A student for whom the Master's thesis is waived will take 6 additional credit hours of course work in history or in a related area.

Competence in a foreign language will be required where warranted, given the student's curricular emphasis and thesis research. The language requirement is determined during the student's first semester in the program and must be fulfilled before beginning work on the thesis.

The sequence of courses selected by the Master's student must build to a coherent and definable area of emphasis. Possible areas of emphasis are: 1) Historical Studies of the U.S. Mexican Borderlands, 2) Historical Process and Literature in Latin America, and 3) the Overseas Expansion of Europe. Prospective students should consult the Divisions' Graduate Advisor for approved course references.

COURSE DESCRIPTIONS

HISTORY

(HIS)

- 5013 **HISTORIOGRAPHY**
(3-0) 3 hours credit.
An examination of the nature of history, historical method, appraisal of sources, and presentation of results.
- 5103 **READINGS SEMINAR IN AMERICAN HISTORY FOR TEACHERS**
(3-0) 3 hours credit.
A readings seminar on selected major issues in U.S. history such as the causes of the American Revolution, the bases of racial segregation in U.S. society, the growth of federal power and its effects, the causes of the Great Depression. Differing historical interpretations and bibliography are also stressed.
- 5123 **THE AMERICAN REVOLUTION, 1763-1789**
(3-0) 3 hours credit.
A history of British America from the imperial crisis of 1763 to the ratification of the United States Constitution in 1789, with emphasis on the early beginnings of the American nation, and social, economic, military, and cultural features of the revolutionary movement.
- 5143 **THE CIVIL WAR AND RECONSTRUCTION**
(3-0) 3 hours credit.
Background and causes of secession and the Civil War, the organization of the Confederacy, highlights of the war period, and the problems of the era of reconstruction.
- 5163 **THE AMERICAN FRONTIER EXPERIENCE**
(3-0) 3 hours credit.
A history of the westward movement of population from the Atlantic seaboard to the Pacific coast, treating particularly the frontier thesis of Frederick Jackson Turner. Emphasis on the effects of the frontier experience upon American social structure, politics, economy, life style and attitudes as influenced by the changing frontier.
- 5173 **HISTORY OF UNITED STATES IMMIGRATION**
(3-0) 3 hours credit.
The emergence and impact of immigrant groups in the United States, from colonial times to the present, with special emphasis on patterns of settlement, assimilation, acculturation, discrimination, cultural resistance and preservation, and the contributions of immigrants to the American experience.
- 5183 **THE RISE OF AMERICAN INDUSTRIALIZATION AND LABOR, 1877-1929**
(3-0) 3 hours credit.
The political, economic, cultural, and social evolution of industry and labor in the United States from 1877 to 1929, focusing on reactions to the growth of big business and organized labor and their

impact on urbanization. Significant developments include the emergence of the United States as an industrial power, the Populist Revolt, neo-imperialism, the Progressive Era, and the Great Depression.

5193 THE EMERGENCE OF MODERN AMERICA, 1929-1972

(3-0) 3 hours credit.

Analysis of recent American history with emphasis upon the rise of the United States as a world power, the Great Depression, FDR and the New Deal, World War Two, the Cold War, and an assessment of the administrations of Truman, Eisenhower, Kennedy, Johnson, and Nixon.

5203 SEMINAR IN AMERICAN STATE AND LOCAL HISTORY

(3-0) 3 hours credit.

The nature of history and its writing; the relationship of local and immediate events to national and regional affairs, the possibilities for classroom use of local history in stimulating student interest in broader historical matters; use of local source materials such as county, community, and private documents.

5253 HISTORY OF TEXAS

(3-0) 3 hours credit.

Survey of Texas from the period of Spanish colonization to the 20th Century, with emphasis on its development during the Spanish-Mexican period, the Republic, early statehood, the Civil War, Reconstruction, and the era of internal reform.

5263 THE SPANISH BORDERLANDS, 1521-1821

(3-0) 3 hours credit.

A comprehensive study of Spanish exploration and colonization in the borderlands adjacent to the international boundary between the Southwestern United States and Mexico. Emphasis on Hispanic institutions and cultural values which shaped the development of a frontier society on the eve of Mexican independence. Attention is given to bibliographic sources and specialized readings.

5273 THE MEXICAN BORDERLANDS SINCE 1821

(3-0) 3 hours credit. Recommended preparation: HIS 5263. A continuation of the Spanish Southwest since 1821, with a comparative description and analysis of the historical development of Texas, New Mexico, Arizona, and California from the Treaty of Guadalupe Hidalgo to the 20th Century.

5293 THE TRANS-MISSISSIPPI WEST

(3-0) 3 hours credit.

A regional history of the exploration, acquisition, settlement, and development of the territory west of the Mississippi River in the nineteenth and twentieth centuries, with emphasis on the influences of the frontier upon Spanish and Anglo-American institutions.

5353 SEMINAR IN TEXAS HISTORY

(3-0) 3 hours credit. Prerequisite: HIS 5253 or permission of instructor.

An examination in broad perspective of significant historical trends in Texas viewed as a cultural region, covering such topics as exploration, migration, settlement, political growth, economic development, and cultural conflict and confluence. Attention to archival resources, bibliography and current instructional materials.

- 5403 **HISTORY OF MEXICO AND GUATEMALA: THE COLONIAL PERIOD**
(3-0) 3 hours credit. Recommended preparation: HIS 5603.
Survey and detailed examination of the major events, trends and developments during the period of Spanish domination from 1521 to 1810. Consideration will be made of the legacy of native culture and social systems from the Pre-Hispanic past. Demographic, social and economic disruptions and readjustments in the early colonial period; the vicerealty.
- 5413 **HISTORY OF MEXICO: THE REPUBLICAN PERIOD**
(3-0) 3 hours credit.
A detailed survey of Mexican history from independence to the present, concentrating on the Santa Anna period, the United States-Mexican War, the Juárez reforms, the rise and decline of Porfirian rule, and the significance of the Revolution of 1910 and its aftermath.
- 5443 **HISTORY OF SOUTH AMERICA: THE COLONIAL PERIOD**
(3-0) 3 hours credit. Recommended preparation: HIS 5603.
Includes consideration of the Caribbean; covers 1492 to 1810. Portuguese colonization of Brazil; the conquest of Peru and the civil wars; the conflict between crown and colonists over native populations; Jesuit settlements in Paraguay; social, political and cultural developments within the colonies; the economic basis of The Wars of Independence.
- 5453 **HISTORY OF SOUTH AMERICA: THE EARLY REPUBLICAN AND MODERN PERIODS**
(3-0) 3 hours credit.
The Wars of Independence; conservative/liberal conflicts and civil wars in the early republican period; the War of the Pacific; social, economic and political developments; Brazil as a separate tradition. Relations between South American republics and the United States; the Panama Canal incident; European immigration; industrialization and social change; World War II; demographic changes and foreign immigration; Communism and revolutionary movements; Castro and Cuba.
- 5463 **LATIN AMERICAN LEADERS OF THE REPUBLICAN PERIOD: A BIOGRAPHICAL APPROACH**
(3-0) 3 hours credit.
The biographical approach to Latin American history, problems of biographical research on post-independence leaders; the militaristic legacy of the Wars for Independence and the rise of the caudillo; major biographers and their works; the lives of major republican Latin American Leaders and their influence on the course of Latin American history and culture.

- 5503 **SEMINAR IN THE HISTORY OF MEXICO**
(3-0) 3 hours credit.
An examination of selected issues of Mexican history such as the role of the Church in Mexican society in colonial and republican Mexico, the colonial legacy, problems in U.S.-Mexican relations, and causes of the Revolution of 1910. Individual research in primary and secondary sources will be emphasized.
- 5563 **THE AGE OF EXPLORATION: FIFTEENTH THROUGH SEVENTEENTH CENTURIES**
(3-0) 3 hours credit.
An analysis of European discovery, exploration, economic expansion, and initial colonization in Asia, Africa, and America, with special attention to the operation of European imperial systems in the seventeenth century and the impact of the European presence on indigenous societies.
- 5573 **THE AGE OF IMPERIALISM: EIGHTEENTH THROUGH TWENTIETH CENTURIES**
(3-0) 3 hours credit.
Imperial rivalries, industrialization and imperialism, late nineteenth century imperialism, indigenous reactions, decolonization, and national liberation movements.
- 5603 **HISTORY OF SPAIN: THE CELTIC INVASIONS TO 1820**
(3-0) 3 hours credit.
Overview of Iberian history from the Celtic influx (ca. 600 B.C.) to the collapse of the Spanish American empire, with an examination of the formation of the Spanish culture, and Reconquest, the Catholic monarchs of Castile and Aragón, the significance of the "Golden Century", the decline of Hispanic power in global politics, and the relationship of imperial Spain to colonial America.
- 5653 **ENGLISH HISTORY FROM THE SEVENTEENTH CENTURY**
(3-0) 3 hours credit.
Selected aspects in English history from the seventeenth century to the present with attention to English political evolution, industrialization and economic change, social mobility in England, and the growth and development of the British Empire.
- 5663 **EUROPEAN HISTORY SINCE 1815**
(3-0) 3 hours credit.
Significant issues in modern European history, with attention to the methods and assumptions of different categories of historical interpretation. Topics include the Congress of Vienna, the Revolutions of 1848, the industrialization of Europe, the cultural effects of the first World War, and the rise of Hitler.
- 5753 **AFRICA TO 1800: THE RISE OF AFRICAN STATES AND THE SLAVE TRADE**
(3-0) 3 hours credit.
The evolution of major African civilizations and states and the impact of commercial slavery. An analysis of the concepts of

- state and state building, trade, economic structure, and culture in the setting of African history.
- 5763 **AFRICA SINCE 1800: COLONIAL RULE TO INDEPENDENCE**
(3-0) 3 hours credit.
A study of the 19th Century European partition of Africa, the introduction and operation of colonial administrations, the evolving relationships between indigenous societies and the imperial powers, the rise of African opposition to colonial rule, and the spread of nationhood.
- 6103 **COLLOQUIUM ON MAJOR ISSUES IN AMERICAN HISTORY**
(3-0) 3 hours credit.
A series of related presentations by staff and outside scholars on current controversies, major interests, trends, and new research in American History. Students are expected to prepare for each colloquium by appropriate reading.
- 6353 **RESEARCH SEMINAR IN SOUTHWEST HISTORY**
(3-0) 3 hours credit. Prerequisite: At least one course in Southwestern or Colonial Latin American history, or permission of instructor.
Examination and analysis of selected topics relating to the borderlands of Mexico and the United States from the sixteenth to the twentieth centuries. Supervised preparation of a research paper.
- 6503 **RESEARCH SEMINAR IN LATIN AMERICAN HISTORY**
(3-0) 3 hours credit. Prerequisite: At least one graduate-level course in Latin American history or permission of instructor.
Analysis of major primary and secondary research materials in selected areas of Latin American history and a consideration of interpretive methods. Supervised research projects.
- 6603 **RESEARCH SEMINAR ON THE EXPANSION OF EUROPE AND IMPERIALISM**
(3-0) 3 hours credit. Prerequisite: HIS 5563, HIS 5573, or permission of instructor.
An examination of research materials pertinent to the history of European expansion, of methodologies developed to interpret them, and of historical questions guiding inquiry in the field. Supervised preparation of a research paper; interdisciplinary approaches will be emphasized.
- 6951-3 **INDEPENDENT STUDY**
1 to 3 hours credit. Prerequisites: Graduate standing and permission in writing (form available) of the instructor, the student's Graduate Advisor, and the Division Director and Dean of College in which the course is offered.
Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours will apply to the Master's degree.

6971-3 SPECIAL PROBLEMS

1 to 3 hours credit. Prerequisite: Consent of instructor.
An organized course offering specialized study not normally or not often available as part of the regular course offerings. Special Problems Courses may be repeated for credit when the topics vary, but not more than 6 hours will apply to a Master's degree.

6983 MASTER'S THESIS

(3-0) 3 hours credit. Prerequisites: Admission to candidacy and permission of the Graduate Advisor and thesis director.
Thesis research and preparation. May be repeated for credit, but not more than 6 hours will apply to the Master's degree. Credit will be awarded upon completion of the thesis. Enrollment is required each term in which the thesis is in progress.

COURSE DESCRIPTIONS

ANTHROPOLOGY

(ANT)

5013 HISTORY AND THEORY OF CULTURAL ANTHROPOLOGY

(3-0) 3 hours credit.

A survey of the problems which are central to the anthropological study of culture, with attention to evolutionary, historical and functional points of view.

5023 HISTORY AND THEORY OF ARCHAEOLOGY

(3-0) 3 hours credit.

A survey of the history and development of Archaeology; research techniques; method and theory of prehistoric research.

5133 REGIONAL NATIVE CULTURES OF NORTH AMERICA

(3-0) 3 hours credit.

A survey of native cultures ranging from the Arctic to the Woodlands of Eastern North America, and the Greater Southwest. The rise of regional variation, the role of native religious movements, the influence of natural environment, and continuities into the historical present are considered.

5143 ETHNOLOGY OF MESOAMERICA

(3-0) 3 hours credit.

Examination of the cultural diversity of the native and ladino cultural traditions of Mexico and Guatemala. The period covered is the colonial through the recent period although emphasis is on the latter. Community studies of traditional communities, social, structural and economic systems studies, urban anthropology, and other sources are utilized.

5153 SEMINAR IN MEXICAN-AMERICAN CULTURE

(3-0) 3 hours credit.

A survey of Mexican-American culture. Special studies in ethnology, ethnography, folklore, and linguistics.

- 5203 **LANGUAGE, CULTURE, AND CULTURAL CHANGE**
 (3-0) 3 hours credit.
 Analysis of the nature and function of language and non-verbal communication. Problems of cross-cultural communication and acculturation in relation to cultural conflict with particular emphasis on the Mexican-American. Includes cultural dynamics and directed change.
- 5213 **CULTURAL ECOLOGY**
 (3-0) 3 hours credit.
 A systems approach to the inter-relationships between man, culture and the natural world.
- 5223 **MEDICAL ANTHROPOLOGY**
 (3-0) 3 hours credit.
 Consideration of cultural factors in the practice of medicine, training of physicians, attitudes toward drugs and medical personnel. Psychological elements and value systems in traditional societies and their non-medical explanations and attitudes toward disease, trauma, curing, and preventive medicine.
- 5423 **ARCHAEOLOGICAL BACKGROUNDS OF MESO-AMERICA**
 (3-0) 3 hours credit.
 Review of Mesoamerican prehistory from late Pleistocene times to the fall of Tenochtitlan. Emphasis will be placed on social and technological development sequences, the growth and decline of political states, linkages to natural settings, interaction among cultures, and continuities into the historical present.
- 5433 **ARCHAEOLOGICAL BACKGROUNDS OF THE MIDDLE EAST, THE MEDITERRANEAN, AND EUROPE**
 (3-0) 3 hours credit.
 Examination of the major events of prehistory in the area, the establishment of agricultural life, the development of urbanism, and the interaction of the various zones of the area in the evolution of civilization.
- 5443 **THE ARCHAEOLOGY OF SOUTH AMERICA**
 (3-0) 3 hours credit.
 A consideration of the major features of native cultures of South America, Central America, and the Caribbean. Emphasis on the variety of cultural forms and cultural evolution. The roles of demography, subsistence systems, militarism, religion, and other factors in the rise of South American cultures will be discussed.
- 5554 **FIELD COURSE IN ARCHAEOLOGY**
 (2-12) 4 hours credit. Prerequisite: Consent of instructor.
 Advanced training in field procedures, and their applications to problem-oriented field research. Students may not enroll in other courses concurrently except for ANT 6442. May be repeated for credit.
- 6113 **SEMINAR IN ANTHROPOLOGY OF MESOAMERICA**
 (3-0) 3 hours credit. Prerequisite: ANT 5143 or 5423 or permission of instructor.

Attention is centered on a limited number of significant problems in Mesoamerican anthropology to which materials from archaeology, ethnology and ethnohistory contribute. Examples of such problems are, demography and the rise of Mayan empire, roots of Mesoamerican peasant culture, and distribution analysis of cultural and language variance. May be repeated for credit when topics vary.

6442 SUPERVISED FIELD RESEARCH

(0-12) 2 hours credit. Prerequisite: Consent of instructor.

Offered only during the summer, this course must be taken concurrently with ANT 5554. The course is designed to provide intensive training and requires the student to carry out independent research and analysis of field data. May be repeated for credit.

6951-3 INDEPENDENT STUDY

1 to 3 hours credit. Prerequisites: Graduate standing and permission in writing (form available) of the instructor, the student's Graduate Advisor, and the Division Director and Dean of the College in which the course is offered.

Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours will apply to the Master's degree.

6971-3 SPECIAL PROBLEMS

1 to 3 hours credit. Prerequisite: Consent of instructor.

An organized course offering specialized study not normally or not often available as part of the regular course offerings. Special Problems Courses may be repeated for credit when the topics vary, but not more than 6 hours will apply to a Master's degree.

COURSE DESCRIPTIONS

GEOGRAPHY

(GRG)

5103 THE REGIONAL GEOGRAPHY OF THE GREATER SOUTHWEST

(3-0) 3 hours credit.

The physical and cultural characteristics of the American Southwest, including Texas, and the adjacent parts of Mexico. Both Pre-Hispanic and European periods are considered.

5113 CULTURAL AND PHYSICAL GEOGRAPHY OF NORTH AMERICA

(3-0) 3 hours credit.

Physical and cultural characteristics of the human use of the North American continent both in aboriginal times and after European contact. Ecological zoning, settlement patterning, demographic developments, cultural influence and modification of the landscape are among the topics covered.

- 5123 **CULTURAL AND PHYSICAL GEOGRAPHY OF MIDDLE AMERICA**
 (3-0) 3 hours credit.
 Physical and cultural characteristics of human occupation of the area between the Greater Southwest and South America. Ecological and cultural diversity, economic interdependence, demographic history, aboriginal and European land use are included in the course.
- 5133 **CULTURAL AND PHYSICAL GEOGRAPHY OF SOUTH AMERICA**
 (3-0) 3 hours credit.
 Characteristics of aboriginal and post-European land use and interaction among the varying ecological settings of South America. Contrasts between the settlement patterns and land use of the tropical forest zones, the Andes, and the llanos of the Southwest.
- 5143 **CULTURAL AND PHYSICAL GEOGRAPHY OF THE MEDITERRANEAN AND EUROPE**
 (3-0) 3 hours credit.
 Consideration of the prehistoric and historic periods in ecological interaction with human populations. Such matters as central place theory, etc., are used to explain settlement patterns and economic developments. Topics such as the Roman subsistence dependence on North Africa are included.
- 5303 **ECONOMIC GEOGRAPHY**
 (3-0) 3 hours credit.
 Substantive and theoretical consideration of the economic implications of geography. Topics include the development of industrial patterns, subsistence patterns, transportation systems, and resource exploitation. Central place theory, Boserup's theory of agricultural growth, and other theoretical matters are considered.
- 5313 **URBAN SETTLEMENTS**
 (3-0) 3 hours credit.
 A cross-national analysis of the distribution and character of urban settlement patterns, with attention to recent theory and analytic techniques pertaining to urban location, communication, energy, political hegemony and access to resources. This course may also be taken as ENV 5273.
- 6153 **SEMINAR IN THE GEOGRAPHY OF LATIN AMERICA**
 (3-0) 3 hours credit. Prerequisite: GRG 5123 or GRG 5133.
 Intensive analysis of selected problems in Latin American geography, including comparative settlement patterns; resource distribution and political structure; altitudinal factors in exchange networks; and micro-regional analyses. May be repeated for credit when the topics vary.
- 6951-3 **INDEPENDENT STUDY**
 1 to 3 hours credit. Prerequisites: Graduate standing and permission in writing (form available) of the instructor, the student's Graduate Advisor, and the Division Director and Dean

of the College in which the course is offered.

Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours will apply to the Master's degree.

6971-3 SPECIAL PROBLEMS

1 to 3 hours credit. Prerequisite: Consent of instructor.

An organized course offering specialized study not normally or not often available as part of the regular course offerings. Special Problems Courses may be repeated for credit when the topics vary, but not more than 6 hours will apply to a Master's degree.

COURSE DESCRIPTIONS

POLITICAL SCIENCE

(POL)

5033 COMPARATIVE POLITICAL INSTITUTIONS AND PROCESSES

(3-0) 3 hours credit.

A cross-national analysis of specific institutions, processes, and problems. Topics include: political parties, interest groups, bureaucracies, legislatures, political socializations, political leadership, political system performance, etc.

5103 AMERICAN POLITICAL PARTIES

(3-0) 3 hours credit.

An introductory analysis of the institutions, processes, and techniques of political management in the United States. Emphasis is on the contemporary era and its historical evolution.

5153 CONTEMPORARY ISSUES IN AMERICAN GOVERNMENT

(3-0) 3 hours credit.

An examination of leading contemporary political issues as they affect and are influenced by the constitutional, institutional, cultural, and economic framework of American government. Examples of topics to be covered include: presidential power and its constraints; cycles in legislative influence; the making of foreign policy; the role of bureaucracy; government and the press; economic policy; urban policy.

5603 POLITICAL ORGANIZATION OF URBAN CENTERS

(3-0) 3 hours credit.

An analysis of the alternative types of governmental organizations available to operate cities. The various alternative systems as they affect the development of cities and regions are evaluated.

6951-3 INDEPENDENT STUDY

1 to 3 hours credit. Prerequisites: Graduate standing and permission in writing (form available) of the instructor, the

student's Graduate Advisor, and the Division Director and Dean of the College in which the course is offered.

Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours will apply to the Master's degree.

6971-3 SPECIAL PROBLEMS

1 to 3 hours credit. Prerequisite: Consent of instructor.

An organized course offering specialized study not normally or not often available as part of the regular course offerings. Special Problems Courses may be repeated for credit when the topics vary, but not more than 6 hours will apply to a Master's degree.

COURSE DESCRIPTIONS

SOCIOLOGY

(SOC)

5043 SEMINAR IN JUVENILE DELINQUENCY RESEARCH

(3-0) 3 hours credit.

A comparative and integrative review of contemporary research into social deviance among children and adolescents: Youth subcultures, the impact of juvenile service institutions, gangs and movements, applications to corrections.

5103 SOCIO-PSYCHOLOGICAL DIMENSIONS OF WORK

(3-0) 3 hours credit.

Problems faced by members of the labor force in an industrialized society and the accompanying stresses that human specialization, obsolescence place on the individual. The impact of work on labor force attitudes and performance. Labor force activity is examined against different cultural backgrounds. Programs to create a better work climate are examined.

5113 SEMINAR IN URBAN SOCIAL STRATIFICATION

(3-0) 3 hours credit.

Sociological theories of social organization in urban contexts and recent research in such matters as inter-ethnic relations and subsystems of stratification.

5123 SEMINAR IN FAMILY RELATIONS

(3-0) 3 hours credit.

Examination of specialized areas within the family studies area such as adult education for marriage and workshop sessions for teachers of family courses in public schools.

5203 SEMINAR IN APPLIED SOCIAL SCIENCE

(3-0) 3 hours credit.

The application of social science materials, methods, and theories to problems of society at large, government, and small group relations will be evaluated. Case studies will be presented and discussed.

- 6043 SEMINAR IN ADVANCED SOCIAL PSYCHOLOGY**
(3-0) 3 hours credit.
Study of theoretical and substantive bases of social action groups, together with a consideration of the influence of cultural patterns upon individual action patterns.
- 6951-3 INDEPENDENT STUDY**
1 to 3 hours credit. Prerequisites: Graduate standing and permission in writing (form available) of the instructor, the student's Graduate Advisor, and the Division Director and Dean of the College in which the course is offered.
Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours will apply to the Master's degree.
- 6971-3 SPECIAL PROBLEMS**
1 to 3 hours credit. Prerequisite: Consent of instructor.
An organized course offering specialized study not normally or not often available as part of the regular course offerings. Special problems Courses may be repeated for credit when the topics vary, but not more than 6 hours will apply to a Master's degree.

College of Multidisciplinary Studies

The College of Multidisciplinary Studies, in many ways, epitomizes the spirit and direction of The University of Texas at San Antonio as an academic community. For the most part, this College offers only graduate degrees even though it pervades the entire University by providing non-traditional and relevant courses which are vital to The University's total curriculum. The programs offered in this College are blends of several disciplinary areas, welded into a speciality that is dependent upon specific knowledge in each area. Many of the innovative and experimental programs generated by The University will find their places within the College of Multidisciplinary Studies.

DIVISION OF BICULTURAL-BILINGUAL STUDIES

MASTER OF ARTS DEGREE IN BICULTURAL-BILINGUAL STUDIES

Concentrations in:

Bicultural-Bilingual Teacher Education
Bicultural Studies
English as a Second Language

The Master of Arts Degree in Bicultural-Bilingual Studies is Designed to meet several societal needs through advanced multidisciplinary study in the fields of language and culture.

Bicultural-Bilingual Teacher Education. This concentration usually follows on the baccalaureate degree in Early Childhood, Elementary, and Secondary Education and provides intensive bicultural-bilingual teacher preparation, including intensive training in language (primarily Spanish and English) and in associate cultural studies. Preparation will also include such related areas as history, literature, linguistics, psychology, sociology, cultural anthropology and the arts.

Special Admission Requirements. In addition to satisfying the university-wide graduate admission requirements students entering this program must demonstrate proficiency in both the Spanish and English languages (1) by obtaining a satisfactory score on the Modern Language Association Foreign Language Proficiency Examination or (2) by giving other evidence acceptable to the Division of Bicultural-Bilingual Studies.

Degree Requirements. All candidates for the Master of Arts Degree in Bicultural-Bilingual Studies will be required to select a concentration and successfully complete one of the following Options for their concentration as indicated below. Upon completion of course work the candidate will be required to pass a comprehensive examination.

Concentration in Bicultural-Bilingual Teacher Education

Option I (a total of 30 semester hours including a thesis)

Fifteen (15) semester hours of course work normally required from the following:

- BBL 5013 Biculturalism**
- BBL 5023 Cultural Adaptation in Bilingual Societies**
- BBL 5033 Materials and Techniques of Teaching Content in Bilingual Programs**
- BBL 5063 Reading Techniques in a Bicultural-Bilingual Program**
- BBL 5073 Psychological Considerations in a Bicultural Environment**
- BBL 6063 Research Methodology in Bilingual and Second Language Studies**
- LNG 5013 Sociolinguistics**

Nine (9) semester hours of support work,¹³ as approved by the Graduate Advisor and Dean.

Six (6) hours of Master's Thesis.

Students may be exempted from courses for which they demonstrate satisfactory knowledge to the Division of Bicultural-Bilingual Studies. Exemption from courses is without credit, and the credit hours needed to satisfy degree requirements must be obtained by examination challenge of the exempted courses, if authorized, or by taking additional course work.

***Option II* (a total of 36 semester hours, non-thesis program)**

Eighteen (18) semester hours of course work normally required from the following:

- BBL 5013 Biculturalism**
- BBL 5023 Cultural Adaptation in Bilingual Societies**
- BBL 5033 Materials and Techniques of Teaching Content in Bilingual Programs**
- BBL 5053 Tests and Measurements in Bilingual and Second Language Studies**
- BBL 5063 Reading Techniques in a Bicultural-Bilingual Program**

¹³Support work may be selected from such related areas as Economics, Management, Art History and Criticism, Music, Spanish, Anthropology, History, Political Science and Sociology.

- BBL 5073 Psychological Considerations in a Bicultural Environment
BBL 5083 Developing and Implementing Bicultural-Bilingual Education Programs
LNG 5013 Sociolinguistics

Nine (9) semester hours of course work in a second field, as approved by the Graduate Advisor and Dean.

An additional nine (9) semester hours of course work in Bicultural Studies, the second field, or from a related area,¹⁴ as approved by the Graduate Advisor and Dean.

Students may be exempted from courses for which they demonstrate satisfactory knowledge to the Division of Bicultural-Bilingual Studies. Exemption from courses is without credit, and the credit hours needed to satisfy degree requirements must be obtained by examination challenge of the exempted courses, if authorized, or by taking additional course work.

Bicultural Studies. This concentration offers an intensive program of studies preparing students to attain an in-depth cultural background and familiarity with physical, social, and economic environment of the cultures studied and is designed to help prepare students for a variety of career opportunities, e.g., in business, government service, international relations, politics, public relations, social work, etc. Work in this degree plan may be related to the area of the student's undergraduate major. Special attention to a chosen cultural setting, to be studied through several disciplines, is intended to provide the student with a specialized knowledge in his selected area.

Special Admission Requirements. In addition to satisfying the university-wide graduate admission requirements, students entering this program must demonstrate proficiency in both Spanish and English languages (1) by obtaining a satisfactory score on the Modern Language Proficiency Examination or (2) by giving other evidence acceptable to the Division of Bicultural-Bilingual Studies.

¹⁴Support work may be selected from such related areas as Economics, Management, Art History and Criticism, Music, Spanish, Anthropology, History, Political Science and Sociology.

Degree Requirements. All candidates for the Master of Arts Degree in Bicultural-Bilingual Studies will, in addition to observing the university-wide requirements for the Master's degree, be required to select a concentration and successfully complete one of the following Options for their concentration as indicated below. Upon completion of course work the candidate will be required to pass a comprehensive examination.

Concentration in Bicultural Studies

Option I (a total of 30 semester hours including a thesis)

Twelve (12) semester hours of course work from the following:

BBL 5013	Biculturalism
BBL 5023	Cultural Adaptation in Bilingual Societies
ANT 5153	Seminar in Mexican-American Culture
HIS 5273	Mexican Borderlands Since 1821
LNG 5013	Sociolinguistics

Three (3) semester hours of course work selected from the following:

SOC 5113	Seminar in Urban Social Stratification
SPN 5803	Mexican-American Literature
AHC 5713	Art and Architecture of Mexico and Mexican America

Nine (9) hours of course work in a support area,¹⁵ as approved by the Graduate Advisor and Dean.

Six (6) hours of Master's Thesis

Students may be exempted from courses for which they demonstrate satisfactory knowledge to the Division of Bicultural-Bilingual Studies. Exemption from courses is without credit, and the credit hours needed to satisfy degree requirements must be obtained by examination challenge of the exempted courses, if authorized, or by taking additional course work.

¹⁵Support work may be selected from such related areas as Economics, Management, Art History and Criticism, Music, Spanish, Anthropology, History, Political Science and Sociology.

Option II (a total of 36 hours, non-thesis program)

Eighteen (18) semester hours of course work, normally required from the following:

BBL 5013	Biculturalism
BBL 5023	Cultural Adaptation in Bilingual Societies
LNG 5013	Sociolinguistics
ANT 5153	Seminar in Mexican-American Culture
HIS 5273	Mexican Borderlands Since 1821
SPN 5803	Mexican-American Literature
AHC 5713	Art and Architecture of Mexico and Mexican America

Nine (9) semester hours of course work in a second field, as approved by the Graduate Advisor and Dean.

An additional nine (9) semester hours of course work in Bicultural-Bilingual Studies, or from a second field, or in a related area,¹⁶ as approved by the Graduate Advisor and Dean.

Students may be exempted from courses for which they demonstrate satisfactory knowledge to the Division of Bicultural-Bilingual Studies. Exemption from courses is without credit, and the credit hours needed to satisfy degree requirements must be obtained by examination challenge of the exempted courses, if authorized, or by taking additional course work.

Concentration in English as a Second Language.

Concentration in English as a Second Language is a program directed to those who are now teaching or who plan to teach English as a Second Language and to others who are responsible for providing second language instruction, including curriculum specialists, supervisors, counselors, and social workers. The degree concentration in English as a Second Language is interdisciplinary, and the curriculum has been designed to present systematic instruction in Linguistics, Applied Linguistics, and the pedagogy of English as a Second Language.

Special Admission Requirements. In addition to satisfying the university-wide graduate admission requirements, students en-

¹⁶Support work may be selected from such related areas as Economics, Management, Art History and Criticism, Music, Spanish, Anthropology, History, Political Science and Sociology.

tering the English as a Second Language Concentration must demonstrate proficiency in a foreign language. Applicants may satisfy this provision in any one of three ways:

1. By completion of the fourth semester of a foreign language.
2. By taking an examination and obtaining a satisfactory score.
3. By ability as an educated speaker of a language other than English.

Degree Requirements. All candidates for the Master of Arts Degree in Bicultural-Bilingual Studies with a Concentration in English as a Second Language will be required to complete either Option I or Option II as indicated below. Upon completion of course work the candidate will be required to pass a comprehensive examination.

Option I (a total of 30 semester hours including thesis is required).

Fifteen (15) hours must be in the following courses or their equivalents:

- ESL 5013 Principles of Second Language Teaching
- ESL 5023 Language Analysis
- ESL 5033 Reading Acquisition and Language
- ESL 5053 Second Language Teaching Techniques
- ESL 6023 History of Second Language Teaching

An additional 9 hours may be taken in other English as a Second Language courses, in courses with English as a Second Language/Applied Linguistics content, or in support areas.¹⁷ Courses are to be selected with the approval of the student's Graduate Advisor and Dean.

Six (6) semester hours of Master's Thesis.

Option II (a total of 36 semester hours, non-thesis program)

Eighteen (18) semester hours must be in the following courses or their equivalents:

- ESL 5013 Principles of Second Language Teaching
- ESL 5023 Language Analysis

¹⁷Support work may be selected from such related areas as Linguistics, Spanish, Anthropology, Education, and English.

- ESL 5033 Reading Acquisition and Language
- ESL 5053 Second Language Teaching Techniques
- ESL 6023 History of Second Language Teaching
- LNG 5013 Sociolinguistics

The remaining 18 hours may be taken in other English as a Second Language courses, in courses with English as a Second Language/Applied Linguistics content, or in support areas.¹⁸ Courses are to be selected with the approval of the student's Graduate Advisor and Dean.

COURSE DESCRIPTIONS
BICULTURAL-BILINGUAL STUDIES
(BBL)

- 5013 **BICULTURALISM**
 (3-0) 3 hours credit.
 Ethnographic approaches to the study of communication and their relevance to biculturalism—Anglo-Hispanic, as well as Anglo-other cultures—with some concerns for its educational implementation.
- 5023 **CULTURAL ADAPTATION IN BILINGUAL SOCIETIES**
 (3-0) 3 hours credit.
 A study of the interrelationship between cultural and linguistic conflicts in bilingual communication and the implications of these within the context of acculturation and bilingual assimilation for the socio-cultural institutions, intergroup relationships and American value system.
- 5033 **MATERIALS AND TECHNIQUES OF TEACHING CONTENT IN BILINGUAL PROGRAMS**
 (3-0) 3 hours credit.
 A study of elementary and secondary methodologies, approaches, techniques and materials applicable to the teaching of subject area content in bicultural-bilingual programs; adaptation of materials and conduct of instruction in the native language will be emphasized.
- 5043 **TEACHING THE ADULT BILINGUAL**
 (3-0) 3 hours credit.
 A study of materials and their selection, adaptation, utilization and methodologies in programs specifically designed for the under-educated or language-handicapped adult. Emphasis given to ESL, literacy acquisition, and basic education through the G.E.D. level.

¹⁸Support work may be selected from such related areas as Linguistics, Spanish, Anthropology, Education, and English.

- 5053 **TEST AND MEASUREMENTS IN BILINGUAL AND SECOND LANGUAGE STUDIES**
(3-0) 3 hours credit.
Psychometric terminology and basic computations; informal and formal test development procedures; testing construction according to instructional objectives; and measurement of language dominance, aptitude, proficiency and attitudes.
- 5063 **READING TECHNIQUES IN A BICULTURAL-BILINGUAL PROGRAM**
(3-0) 3 hours credit. Prerequisite: Some background in the acquisition of language is desirable.
Analysis of the basic principles, issues, and methodologies in the teaching of reading in the native language and its transferability to the second language; investigation of the current research and materials. Appropriate applications of these in a bicultural-bilingual program.
- 5073 **PSYCHOLOGICAL CONSIDERATIONS IN A BICULTURAL ENVIRONMENT**
(3-0) 3 hours credit.
A study of psychological factors affecting the learning styles of children in bicultural environments; cognitive styles and development of ethnic values; relations among dominant and non-dominant ethnic groups; and strategies for effecting institutional change.
- 5083 **DEVELOPING AND IMPLEMENTING BICULTURAL-BILINGUAL EDUCATION PROGRAMS**
(3-0) 3 hours credit.
Thorough exploration and identification of the areas concerned in developing and implementing bilingual programs, i.e., different prototypes, program design, research and development of materials, community support, staffing and institutionalization strategies for educational innovations.
- 5093 **CHILDREN'S LITERATURE IN A BICULTURAL-BILINGUAL PROGRAM**
(3-0) 3 hours credit.
A study of the available literature in Spanish for children for use in a bicultural-bilingual program.
- 6043 **GIFTED CHILDREN AND BILINGUALISM**
(3-0) 3 hours credit.
Techniques of individualizing instruction for grouping, and teaching gifted minority children in bilingual educational programs; educating creativity in the classroom; research on the identification and education of gifted minority children.
- 6053 **TESTING MEMBERS OF BILINGUAL SOCIETIES**
(3-0) 3 hours credit.
Issues of testing and assessment with non-dominant ethnic populations, practicum in testing with selected instruments, class research projects of a psychological or linguistic nature into presumed characteristics of minority groups in the San Antonio area.

- 6063 RESEARCH METHODOLOGY IN BILINGUAL AND SECOND LANGUAGE STUDIES**
 (3-0) 3 hours credit. Prerequisite: BBL 5053 or equivalent course in Test and Measurements or Elementary Statistics.
 Research paradigms in the social and behavioral sciences, with emphasis on psychological and linguistic research methods; design of a research project; intermediate statistics.
- 6951-3 INDEPENDENT STUDY**
 1 to 3 hours credit. Prerequisites: Graduate standing and permission in writing (form available) of the instructor, the student's Graduate Advisor, and the Division Director and Dean of the College in which the course is offered.
 Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours will apply to the Master's degree.
- 6971-3 SPECIAL PROBLEMS**
 1 to 3 hours credit. Prerequisite: Consent of instructor.
 An organized course offering specialized study not normally or not often available as part of the regular course offerings. Special Problems Courses may be repeated for credit when the topics vary, but not more than 6 hours will apply to a Master's degree.
- 6983 MASTER'S THESIS**
 (3-0) 3 hours credit. Prerequisites: Admission to candidacy and permission of the Graduate Advisor and thesis director.
 Thesis research and preparation. May be repeated for credit, but not more than 6 hours will apply to the Master's degree. Credit will be awarded upon completion of the thesis. Enrollment is required each term in which the thesis is in progress.

COURSE DESCRIPTIONS
ENGLISH AS A SECOND LANGUAGE
(ESL)

- 5013 PRINCIPLES OF SECOND LANGUAGE TEACHING**
 (3-0) 3 hours credit. Prerequisite: LNG 3813 or consent of instructor.
 A study of the principles and theories critical for the teaching and acquisition of second languages.
- 5023 LANGUAGE ANALYSIS**
 (3-0) 3 hours credit. Prerequisite: LNG 3813 or consent of instructor.
 A course to train second-language teachers to identify and analyze the language learning elements in their lessons.
- 5033 READING ACQUISITION AND LANGUAGE**
 (3-0) 3 hours credit.
 A course on the relationship of reading acquisition to language,

and the preparation and adaptation of appropriate reading texts at various levels. Critical evaluation of existing reading materials and progressive second language readers available in controlled vocabularies. Specifically designed for students of ESL.

- 5043 **RESOURCES IN SECOND LANGUAGE TEACHING**
(3-0) 3 hours credit.
A survey of resources in the field of second-language teaching: bibliographies, documentation centers, journals, periodicals, catalogs, publishers; type of automated devices employed in second-language teaching; methods of transmission of meaning through pictures, films, filmstrips, and video tapes.
- 5053 **SECOND LANGUAGE TEACHING TECHNIQUES**
(3-0) 3 hours credit. Prerequisite: ESL 5013 or consent of instructor.
A practical course on classroom techniques for the second-language teacher.
- 6013 **ERROR ANALYSIS**
(3-0) 3 hours credit. Prerequisite: LNG 3813 or consent of instructor.
A study of errors in second-language learning with a view to establishing their causes and to preventing their recurrence in writing and in speech; the distinction between errors caused by language interference and those caused by developmental factors.
- 6023 **HISTORY OF SECOND LANGUAGE TEACHING**
(3-0) 3 hours credit.
A history of the principles of language teaching from antiquity to the present day, with special emphasis on the historical aims of language teaching; the relevancy of particular methods; and the theoretical justifications for past methods and techniques.
- 6033 **TOPICS IN SECOND LANGUAGE TEACHING**
(3-0) 3 hours credit. Prerequisite: LNG 3813 or consent of instructor.
Suggested topics include: the direct method in language teaching; teaching foreign languages in the elementary school; the audio lingual methods, techniques and practices; language policy and implementation. May be repeated for credit when topics vary.
- 6043 **MEDIA IN SECOND LANGUAGE TEACHING**
(3-0) 3 hours credit.
A course designed to acquaint the student with the various kinds and types of automated devices employed in second-language teaching and the use of media, principles and methods of transmission of meaning through pictures, films, filmstrips, and videotapes, and language laboratory.
- 6951-3 **INDEPENDENT STUDY**
1 to 3 hours credit. Prerequisites: Graduate standing and permission in writing (form available) of the instructor, the student's Graduate Advisor, and the Division Director and Dean

of the College in which the course is offered.

Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours will apply to the Master's degree.

6971-3 SPECIAL PROBLEMS

1 to 3 hours credit. Prerequisite: Consent of instructor.

An organized course offering specialized study not normally or not often available as part of the regular course offerings. Special Problems Courses may be repeated for credit when the topics vary, but not more than 6 hours will apply to a Master's degree.

6983 MASTER'S THESIS

(3-0) 3 hours credit. Prerequisites: Admission to candidacy and permission of the Graduate Advisor and thesis director.

Thesis research and preparation. May be repeated for credit, but not more than 6 hours will apply to the Master's degree. Credit will be awarded upon completion of the thesis. Enrollment is required each term in which the thesis is in progress.

DIVISION OF EDUCATION

MASTER OF ARTS DEGREE IN EDUCATION

Concentrations:

Cultural Foundations of Education
Curriculum and Instruction
Early Childhood and Elementary Education
Educational Management
Educational Psychology
 Counseling and Guidance
 Special Education
Institutions of Higher Education

The Master of Arts Degree in Education offers six areas of concentration so that students may choose a program of study most suitable to their needs and objectives. Degree plans are designed to prepare competent personnel for public and private elementary and secondary schools, junior colleges, and senior colleges and universities, as well as governmental agencies. At the heart of each degree program is the concept of flexibility which enables the degree program to be constructed to the particular needs of individual students.

The concentration in Cultural Foundations of Education is suitable for students who intend to complete a Master's degree preparatory to pursuing a Ph.D. degree in Education.¹⁹ The degree program provides broad based expertise in professional education. Research capabilities and cultural investigations are integrated throughout the program. Opportunities are included in the program for students to expand their proficiencies in related and supporting areas.

The concentration in Curriculum and Instruction is one of the most important in professional education at the graduate level. The student in this concentration is provided a broad education in professional and academic areas. Throughout the program the concepts of curricular innovation and excellence of teaching are

¹⁹Doctoral degree programs in Education currently are not offered at The University of Texas at San Antonio.

stressed. Classroom teachers find this concentration of particular interest because of the opportunities to blend subject matter and curricular and instructional concepts with applied research and, as a result, demonstrate educational leadership.

The Early Childhood and Elementary Education concentration stresses human growth and development since, to a large extent, the adult characteristics of an individual are determined long before he reaches first grade. Included in the program is learning theory and familiarization with current research and research methods. Students in this program learn to observe and identify symptoms of learning problems, as well as to cope with them effectively. This concentration is designed primarily for experienced classroom teachers at the early childhood and elementary levels.

This concentration in Educational Management is designed for those individuals who desire careers in public and private school systems, elementary schools, or secondary schools in administrative positions. This concentration helps individuals to understand instructional problems and educational philosophies as well as to develop expertise in management and the applications of management to educational settings. Sufficient flexibility is provided to allow students in this program to obtain additional training in related areas which will increase effectiveness in the educational setting while increasing their broad knowledge of the elementary and secondary educational processes. Students seeking administrative certification are able to complete the requirements for this concentration while obtaining professional certification in administration and supervision.

The concentration in Educational Psychology/Counseling and Guidance is designed for those students interested in careers in counseling and guidance at the elementary, secondary or higher education levels. The concentration provides understanding of the role of counseling and guidance in education; skills in collecting, organizing and interpreting information relative to students; and techniques for communicating this information to students, parents, and other appropriate publics. Certification requirements can be planned within the degree requirements.

The concentration in Educational Psychology/Special Education is designed for those students interested in preparing to teach (or currently teaching) children identified as mentally retarded, emotionally disturbed, or with language/learning disabilities.

The student may elect any of the emphases above or combinations of them. The program is intended to provide both theoretical and conceptual understandings of students with these problems and clinical opportunities to apply skills in working with children. Certification requirements can be planned within the degree requirements.

The Institutions of Higher Education concentration is designed for those individuals seeking careers in the areas of teaching or administration at the junior college, college, or university level. While many professionals will continue beyond the Master's level and seek the Ph.D. degree in this area, this program serves both the student for whom the M.A. degree is terminal and the student who is pursuing the M.A. degree as an intermediate program leading to the doctorate. Sufficient flexibility is incorporated in the program to allow students to obtain an understanding of the role, scope, and interactions of institutions of higher education, along with specialized areas in which professional competency is required. In addition to studying the particular characteristics of institutions of higher education and the multitude of critical issues involved, students complete considerable work outside the area of professional education which is especially applicable to the particular area of career interest. (For example, a student whose goal is to teach chemistry may do much of his course work in that area; a student whose objective is college administration may take courses in management; etc.)

Special Admission Requirements. Students seeking admission to the Master of Arts Degree in Education are required to meet the university-wide graduate admission requirements. Individuals without adequate preparation in Education may be required to complete satisfactorily preparatory courses as a condition of admission.

Degree Requirements. All degrees in Education have three components:

- A) A core of experiences common to all concentrations
 1. Research Methods in Education (EDU 5003).
 2. Values and Their Relationship to Education (EDU 5103 or EDU 5203).
 3. Learning Psychology (EDP 5003.) For students in the appropriate concentrations and with consent of advisors EDP 5013, EDP 5023, or HED 5203 may substitute.

4. An appropriate course in Curriculum and Instruction (C&I 5003 for a concentration in Curriculum and Instruction; C&I 5503, 5513, or 5523 for Early Childhood students, C&I 5603 for Elementary students in the Early Childhood and Elementary concentration; C&I 5803 or HED 5203 for a concentration in Higher Education, C&I 6003 for a concentration in Educational Management).
- B) A program focus approved by the Graduate Advisor of at least six (6) to nine (9) hours in one of the following concentrations:
1. Cultural Foundations of Education
 2. Curriculum and Instruction (options: Master Teacher, Curriculum Specialist, Instructional Media Specialist, Curriculum Evaluation Specialist, Reading Specialist, Instructional Supervisor)
 3. Early Childhood and Elementary Education (options: Early Childhood Education, Elementary Education, Early Childhood and Elementary Education)
 4. Educational Management
 5. Educational Psychology (options: Counseling and Guidance, Special Education)
 6. Institutions of Higher Education (options: College and University Teaching, College and University Administration, Continuing Education)
- C) Electives of at least 3 to 18 hours. These allow students and their program advisors to tailor-make programs to student needs and career goals. They also allow students the option of completing certificate programs. Students who choose Option I (Thesis Option) will have a minimum of 3-6 hours of electives. It is recommended that students following this option elect EDU 5053 Inferential Educational Statistics as one course in their programs. Students who elect Option II (Non-Thesis Option) will have in most programs 15-18 hours of electives. Students seeking certificates as well as Master's degrees may find Option II more suited to their needs.

COURSE DESCRIPTIONS
CURRICULUM AND INSTRUCTION
(C&I)

- 5003 **CURRICULUM THEORY AND DYNAMICS**
(3-0) 3 hours credit.
An examination of theoretical structures underlying curriculum considerations and the implications of these for processes of curricular planning, development and change.
- 5103 **DIAGNOSIS AND PRESCRIPTION: INDIVIDUALIZING INSTRUCTION**
(1-2) 3 hours credit. Prerequisite: C&I 5003 or consent of instructor.
An in-depth study of the tasks and problems associated with individualized instruction. Students will examine the means available for measuring and diagnosing individual learning needs and styles and for selecting from alternative learning materials and environments those most appropriate to individual needs. This course may also be taken as SED 5103.
- 5203 **PATTERNS OF INSTRUCTIONAL INTERACTION**
(1-2) 3 hours credit. Prerequisite: C&I 5003 or consent of instructor.
Practice in the skills and dynamics of instructional behavior and a study of the predictability of student response behavior when strategies are selected according to predetermined criteria. This course may also be taken as SED 5203.
- 5303 **INSTRUCTIONAL MEDIA AND TECHNOLOGY**
(3-0) 3 hours credit. Prerequisite: C&I 5003 or consent of instructor.
Students will examine and develop criteria and schema for evaluating and selecting different instructional media formats, especially as the characteristics peculiar to different media forms apply to the instructional objectives and instructional environment planned.
- 5313 **INSTRUCTIONAL MATERIALS PRODUCTION I: GRAPHICS**
(1-2) 3 hours credit. Prerequisite: C&I 5003 or consent of instructor.
Preparation in the skills required for the production of a variety of materials for classroom use. The rationale for the use of visual media and the specifics of design and technical production procedures for the creation of effective instructional media formats.
- 5343 **PROGRAMMING INSTRUCTION**
(1-2) 3 hours credit. Prerequisite: C&I 5003 or consent of instructor.
A course intended to prepare students in the specific theory and skills of developing programmed instructional materials. S-R Theory as applied in the development of programmed instruction will be examined. Students will be expected to develop and developmentally test a unit of programmed instruction.

- 5403 INSTRUCTIONAL DESIGN AND DEVELOPMENT**
 (3-0) 3 hours credit. Prerequisite: C&I 5003 or consent of instructor.
 A course dealing with the design of instruction. Special attention will be given to theory and method of design based on congruence between identified needs and approaches to curriculum development.
- 5453 CURRICULUM EVALUATION**
 (1-2) 3 hours credit. Prerequisite: C&I 5003 or consent of instructor.
 An examination of the several procedures used to evaluate curriculum materials and development activities. Formative and summative evaluation will be compared and contrasted and the consequences of model evaluative systems will be demonstrated.
- 5503 EARLY CHILDHOOD CURRICULA**
 (3-0) 3 hours credit. Prerequisite: EDU 5003 or consent of instructor.
 A systematic analysis of early childhood curricula. A critical study of objectives, methods of organization, content, methods, and materials of learning used with young children.
- 5513 MATERIALS, METHODS AND TECHNIQUES IN TEACHING EARLY CHILDHOOD EDUCATION**
 (3-0) 3 hours credit. Prerequisite: Consent of instructor.
 A study of the methodologies and techniques effective in teaching kindergarten and preschool children. Construction and use of materials for teaching at the level of student ability.
- 5523 ADVANCED CURRICULUM DESIGN FOR EARLY CHILDHOOD EDUCATION**
 (3-0) 3 hours credit. Prerequisite: C&I 5503 or consent of instructor.
 An analysis of the theoretical basis for curriculum building: developmental levels, domains of learning, taxonomy of objectives.
- 5603 ELEMENTARY SCHOOL CURRICULA**
 (3-0) 3 hours credit.
 A systematic analysis of elementary school curricula. A critical study of the objectives, methods of curricular organization, and content used with elementary school children.
- 5703 SECONDARY SCHOOL CURRICULA**
 (3-0) 3 hours credit. Prerequisite: EDU 5003 or consent of instructor.
 A systematic analysis of secondary school curricula. A critical study of objectives, methods of organization, content, methods and materials of learning used with youth.
- 5733 READING IN ELEMENTARY SCHOOL**
 (3-0) 3 hours credit.
 An analysis of fundamental concepts and principles of beginning reading. Studies of methodology in organizing and teaching an

eclectic program of reading. Ability to assess and develop reading readiness and oral language skills. Ability to stimulate literary appreciation in young children. Critical evaluation of existing beginning reading programs. This course may also be taken as ECE 5733.

- 5743 **READING IN SECONDARY SCHOOL**
(3-0) 3 hours credit.
Principles and techniques for teaching higher level reading and comprehension skills in order to maximize proficiency in learning various academic subjects. Ability to stimulate literary appreciation in older children, to differentiate instruction to meet individual needs. Effective use of teaching aids and equipment. This course may also be taken as SED 5743.
- 5753 **DIAGNOSTIC AND CORRECTIVE READING TECHNIQUES**
(2-1) 3 hours credit. Prerequisite: C&I 5733 or an undergraduate reading methods course or consent of instructor.
Diagnosis and correction of specific reading skill disabilities. Emphasis on techniques which can be implemented in the regular classroom. Work with children to carry out course objectives in both classroom and clinical environments.
- 5773 **CLINICAL PRACTICUM IN READING**
(2-1) 3 hours credit. Prerequisite or concurrent enrollment: C&I 5753 or consent of instructor.
Multidisciplinary approach to diagnosis and correction of reading disabilities. Neurological, physical, perceptual, mental, emotional and linguistic aspects which may impede learning. Administration and interpretation of standardized testing instruments. Development of suitable approaches for remediation. Work with children to carry out course objectives in both classroom and clinical environments.
- 5793 **SEMINAR IN READING**
(3-0) 3 hours credit. Prerequisite: C&I 5773, EDU 5003 or consent of instructor.
Emphasis on current trends and research in the field of reading and the critical evaluation of published reports. Problems of development, supervision, and evaluation of reading programs in school systems. Problems of the linguistically different child.
- 5803 **HIGHER EDUCATION CURRICULA**
(3-0) 3 hours credit. Prerequisite: EDU 5003 or consent of instructor.
A systematic analysis of higher education curricula. A critical study of objectives, methods of organization, content, methods and materials of learning used with college students.
- 6003 **SUPERVISION: THEORETICAL BASIS**
(1-4) 3 hours credit.
An application of learning theory, curriculum development theory, and educational planning theory to curricular development and instructional supervision. A course requiring students to work in small groups and individually in a laboratory setting.

- 6013 SUPERVISION: TEACHING-LEARNING PROCESS**
 (1-4) 3 hours credit.
 The analysis and application of models of the teaching-learning process to instructional supervision. A course requiring students to work in small groups and individually in a laboratory setting.
- 6023 SUPERVISION: TOOLS AND TECHNIQUES**
 (1-4) 3 hours credit.
 The study and application of content, interaction and climate analysis techniques, and the development of communication and interpersonal skills needed for working with teachers. A course requiring students to work in small groups and individually in a laboratory setting.
- 6103 OCCUPATIONAL PLANNING IN MENTAL RETARDATION**
 (3-0) 3 hours credit. Prerequisite: EDP 5413 or consent of instructor.
 Curriculum for secondary school age mentally retarded children.
- 6153 OCCUPATIONAL INFORMATION AND RESOURCES**
 (3-0) 3 hours credit. Prerequisite: EDP 5203 or consent of instructor.
 A study of occupations, requirements for entry, and means of satisfying personality needs.
- 6203 METHODS FOR TEACHING CHILDREN WITH LANGUAGE/LEARNING DISABILITIES**
 (3-0) 3 hours credit. Prerequisite: Consent of instructor.
 The theoretical and practical aspects of prescriptive instructional materials and techniques.
- 6303 ADVANCED METHODS IN SUBJECT-MATTER FIELDS**
 (1-2) 3 hours credit. Prerequisite: C&I 5003 or consent of instructor.
 Course sections are designed to aid students in achieving skill in instructional methodology that is specifically related to and derived from the characteristics of the discipline taught.
1. Science
 2. Mathematics
 3. Social Studies
 4. Language Arts
 5. Foreign Languages
- 6951-3 INDEPENDENT STUDY**
 1 to 3 hours credit. Prerequisites: Graduate standing and permission in writing (form available) of the instructor, the student's Graduate Advisor, and the Division Director and Dean of the College in which the course is offered.
 Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours will apply to the Master's degree.

6971-3 SPECIAL PROBLEMS

1 to 3 hours credit. Prerequisite: Consent of instructor.

An organized course offering specialized study not normally or not often available as part of the regular course offerings. Special Problems Courses may be repeated for credit when the topics vary, but not more than 6 hours will apply to a Master's degree.

COURSE DESCRIPTIONS

EARLY CHILDHOOD AND ELEMENTARY EDUCATION

(ECE)

5123 SEMINAR ON DEVELOPMENT IN EARLY CHILDHOOD AND INFANCY

(3-0) 3 hours credit. Prerequisite: EDP 5013 or consent of instructor.

Studies of the results of stimulating sensory equipment in the early years and investigation of insufficient psychological and physiological nourishment. Deviations from steady differentiation of emotional responses during early childhood, achievement motivation and studies of frustration and tolerance. Includes suggested practices that may enable future generations to avoid developmental disruptions and to alleviate existing developmental handicaps.

5143 LANGUAGE DEVELOPMENT DURING EARLY CHILDHOOD

(3-0) 3 hours credit.

Patterns of acquisition of language skills among the young of diverse ethnic groups will be analyzed in order to identify experiences that promote language development in early childhood.

5453 CLASSROOM BEHAVIOR PROBLEMS IN CHILDREN

(3-0) 3 hours credit. Prerequisite: EDU 5003 or consent of instructor.

A careful analysis of the total array of the learning strengths and weaknesses of the child at each stage of development as the basis of his curricular diet.

5473 SPECIALIZED INSTRUCTION IN THE ELEMENTARY SCHOOL

(3-0) 3 hours credit. Prerequisite: EDU 5003 or consent of instructor.

In-depth investigations of experimental programs in special areas of knowledge such as Mathematics, Science, Social Studies, will be made. Students will complete a field study.

5493 SOCIOLOGICAL IMPLICATIONS OF THE ELEMENTARY SCHOOL

(3-0) 3 hours credit.

Historical examination of the relationship of the elementary school to the society it serves, including a study of the relation-

ship of some aspects of societal changes, e.g., groups involved, roles of individuals, to changes within the elementary school, e.g. general goals, curricular emphases.

- 5733 **READING IN ELEMENTARY SCHOOL**
(3-0) 3 hours credit.
This course is offered as C&I 5733 and is described with the Curriculum and Instruction course listings.
- 6103 **SEMINAR IN EARLY CHILDHOOD EDUCATION**
(3-0) 3 hours credit. Prerequisite: Consent of instructor.
Analysis of the historical and contemporary issues in Early Childhood Education with emphasis on current research and the role of the family in the education of children.
- 6123 **ADMINISTRATION OF EARLY CHILDHOOD PROGRAMS**
(3-0) 3 hours credit. Prerequisite: Consent of instructor.
A study of the organization, structure, and operation of Kindergarten, Day-care, and Nursery programs, both public and private. Implications for elementary education.
- 6143 **SEMINAR ON DAY CARE FOR CHILDREN UNDER THREE: SOCIAL AND DEVELOPMENTAL ASPECTS**
(3-0) 3 hours credit. Prerequisite: Consent of Instructor.
Child caretaking in different social structures; day care centers from a cross-cultural perspective; biological and social aspects of traditional families and alternative family arrangements; physical and mental characteristics of children under three; learning capacity of children under three; deprivation syndromes.
- 6163 **BIOLOGICAL BASIS OF CHILD DEVELOPMENT**
(3-0) 3 hours credit. Prerequisites: One course in general biology or BIO 1033 and EDP 5013 or ECE 5123. Open to upper-level graduate students only.
Theoretical aspects of behavioral biology; behavioral genetics; comparative physiology of behavior; behavioral embryology; physiological and environmental factors affecting development of behavior; early development of learning and cognitive functions.
- 6183 **SEMINAR ON EARLY CHILDHOOD EDUCATION IN CROSS-CULTURAL PERSPECTIVE**
(3-0) 3 hours credit. Prerequisite: Consent of instructor.
An examination of contrasting strategies of socialization employed by societies around the world, past and present; limits of and alternatives to formal early childhood education in the current Western sense. Readings are drawn from both ethnographic and theoretical sources in anthropology, psychology and education.
- 6453 **RESEARCH IN ELEMENTARY EDUCATION**
(3-0) 3 hours credit.
Study of research and problems of current significance in the development of educational programs for elementary school children.

- 6473 SEMINAR IN ELEMENTARY EDUCATION**
 (3-0) 3 hours credit.
 Examination of the discipline of a subject-field selected, e.g. science, social studies, music, including an intensive study of research findings, publications of related professional organizations and advanced experimentations related to teaching/learning situations.
- 6951-3 INDEPENDENT STUDY**
 1 to 3 hours credit. Prerequisites: Graduate standing and permission in writing (form available) of the instructor, the student's Graduate Advisor, and the Division Director and Dean of the College in which the course is offered.
 Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours will apply to the Master's degree.
- 6963-9 INTERNSHIP IN EARLY CHILDHOOD OR ELEMENTARY EDUCATION**
 (1-2) 3-9 hours credit.
 Seminar presentations and discussion of methods, techniques and procedures coupled with directed experiences 1) in the early childhood education setting, 2) in the elementary school, and 3) in the area of reading. May be repeated for credit to a maximum of 9 hours.
- 6971-3 SPECIAL PROBLEMS**
 1 to 3 hours credit. Prerequisite: Consent of instructor.
 An organized course offering specialized study not normally or not often available as part of the regular course offerings. Special Problems Courses may be repeated for credit when the topics vary, but not more than 6 hours will apply to a Master's degree.

COURSE DESCRIPTIONS
EDUCATION
 (EDU)

- 5003 RESEARCH METHODS IN EDUCATION**
 (3-0) 3 hours credit. Prerequisite: Admission to graduate program.
 Basic concepts of research design, strategies of experimental, historical, and descriptive research, and basic statistical procedures are introduced. Participants use these concepts to read, interpret, and evaluate educational research and to plan and conduct such research. A field study will be required.
- 5053 INFERENCE IN EDUCATIONAL STATISTICS**
 (3-0) 3 hours credit. Prerequisite: EDU 5003 and MAT 5073 or consent of instructor.
 The concept of inferential statistics in education as a means of

drawing conclusions and interpreting results is a central theme. A variety of statistical techniques often used in educational research are introduced with the intent of having students be able to elect the appropriate statistical procedure and interpret the results.

- 5103 **CONTEMPORARY EDUCATIONAL PHILOSOPHY**
(3-0) 3 hours credit.
A critical examination of selected contemporary philosophies and an evaluation of their assimilation into educational thought and practices.
- 5203 **EVOLUTION OF EDUCATIONAL THOUGHT**
(3-0) 3 hours credit.
An analysis of the educational writings and teachings of Plato, Aristotle, the Scholasticists, Comenius, Dewey, Froebel, Herbart, Kant, Locke, Pestalozzi, Rousseau, and Spencer and the impact on contemporary educational theory and practice.
- 5303 **PRINCIPLES AND TECHNIQUES OF EVALUATION**
(3-0) 3 hours credit.
Study of the role of evaluation, development of instruments for assessing the products of learning and the techniques for interpreting and communicating evaluation results.
1. Elementary
2. Secondary
3. Higher Education
- 5403 **EDUCATION, CULTURE DIFFERENCES AND ACCULTURATION**
(3-0) 3 hours credit.
Educational changes and adjustments resulting from the interaction of a variety of different cultural backgrounds in the modern school. Specialized techniques, processes and programs designed to meet unique learning needs of the non-English speaking child.
- 5503 **SEMINAR IN SOCIAL FOUNDATIONS OF EDUCATION**
(3-0) 3 hours credit.
A study of the interaction of education and other social agencies.
- 5603 **SOCIO-ECONOMIC PROBLEMS IN EDUCATION**
(3-0) 3 hours credit. Prerequisites: EDU 5003 or consent of instructor.
Identification and analysis of the major socio-economic problems in education, evaluation of attempted historical solutions, and policy information.
- 5703 **LEGAL FOUNDATIONS OF EDUCATION**
(3-0) 3 hours credit.
Analysis of current legal basis and practices in the governance of education and the implications of significant court decisions pertaining to school operations.

6951-3 INDEPENDENT STUDY

1 to 3 hours credit. Prerequisites: Graduate standing and permission in writing (form available) of the instructor, the student's Graduate Advisor, and the Division Director and Dean of the College in which the course is offered.

Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours will apply to the Master's degree.

6971-3 SPECIAL PROBLEMS

1 to 3 hours credit. Prerequisite: Consent of instructor.

An organized course offering specialized study not normally or not often available as part of the regular course offerings. Special Problems Courses may be repeated for credit when the topics vary, but not more than 6 hours will apply to a Master's degree.

6983 MASTER'S THESIS

(3-0) 3 hours credit. Prerequisites: Admission to candidacy and permission of the Graduate Advisor and thesis director.

Thesis research and preparation. May be repeated for credit, but not more than 6 hours will apply to the Master's degree. Credit will be awarded upon completion of the thesis. Enrollment is required each term in which the thesis is in progress.

COURSE DESCRIPTIONS

EDUCATIONAL MANAGEMENT

(EDM)

5003 GENERAL SCHOOL ADMINISTRATION

(3-0) 3 hours credit. Prerequisite: One year of teaching experience.

The roles, tasks and problems of district and building level administrators; interrelationships of modern school systems and their relationship to local, state and federal government.

5103 SCHOOL FINANCE AND TAXATION

(3-0) 3 hours credit.

Current problems, issues, and practices in local, state and federal financial support for primary and secondary schools and the relation of school finance problems to broader socio-economic issues.

5203 SCHOOL AND COMMUNITY RELATIONS

(3-0) 3 hours credit.

Parent participation in the school and strategies for informing the community about school activities and promoting school community interactions are analyzed. Studies will be made on interrelationships among the home, schools, and community.

- 5303 **HUMAN RELATIONS IN EDUCATIONAL ADMINISTRATION**
(3-0) 3 hours credit.
Analysis and identification of group processes and individual behavior which tend to enhance democratic interaction in the achievement of educational goals.
- 5403 **THE PRINCIPALSHIP**
(3-0) 3 hours credit. Prerequisite: One year teaching experience.
Analysis of the principal's role as he or she interacts with his or her various referent groups. Special emphasis on behavior. Applicable to elementary and secondary administration.
- 5503 **ADMINISTRATION AND FUNCTION OF SPECIAL PROGRAMS**
(3-0) 3 hours credit.
A study of the role of the administrator in initiating, developing, supervising and supporting programs in Guidance, Vocational and Technical Education, Career Education, Special Education, Compensatory Education and Reading.
- 5603 **FIELD BASED INDIVIDUAL RESEARCH**
(1-2) 3 hours credit.
Individualized projects in educational administration based on a problem area identified through contact in the field. Students to develop the ability to locate, analyze, synthesize, and propose applications of research and literature to an identified problem area.
- 6103 **PERSONNEL ADMINISTRATION**
(3-0) 3 hours credit. Prerequisite: MGT 5003 or consent of instructor.
Problems in the personnel administration of public and private schools. Policies affecting personnel, rights and responsibilities of students and teachers, insurance, salary schedule, retirement, sick leave, collective negotiations, and auxiliary enterprises.
- 6203 **EDUCATIONAL FACILITIES—RESOURCES AND PLANNING**
(3-0) 3 hours credit. Prerequisite: Consent of instructor.
An analysis of the building and other physical plant needs of the local public school district, including planning, financing, construction, and utilization.
- 6303 **EDUCATION SYSTEMS ANALYSIS**
(3-0) 3 hours credit. Prerequisite: Consent of instructor.
A study of systems analysis techniques applicable to education including PERT, P.P.B.S., M.B.O., and other management systems, including management information systems.
- 6403 **ORGANIZATIONAL AND ADMINISTRATIVE THEORY IN EDUCATION**
(3-0) 3 hours credit. Prerequisite: Consent of instructor.
A study of current theories, concepts and principles of leadership and their in-depth application to educational roles. Emphasis is placed on the responsibility of the educational adminis-

trator for effective leadership in the school and community and the evaluation of staff competence and role performance.

- 6503 **FUTUROLOGY AND EDUCATIONAL PLANNING**
(3-0) 3 hours credit. Prerequisite: Consent of instructor.
An examination of knowledge, values, attitudes and feelings regarding future cognition along with psychological and ethical issues regarding futurology and long range planning. Identification of techniques of analysis and methodological approaches for forecasting related to the educational subsystem. Development of concepts of desired futures and strategies for changing the subsystem to meet the demands.
- 6951-3 **INDEPENDENT STUDY**
1 to 3 hours credit. Prerequisites: Graduate standing and permission in writing (form available) of the instructor, the student's Graduate Advisor, and the Division Director and Dean of the College in which the course is offered.
Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours will apply to the Master's degree.
- 6963 **INTERNSHIP**
(0-9) 3 hours credit.
1. **EDUCATIONAL MIDDLE MANAGEMENT**
Supervised on-the-job experience with related reading and study. The intern will work with building level administrators or district program specialists in applying management fundamentals to an ongoing school program. Students are exposed to decision-making processes such as program development, plant utility, financial and personnel management.
 2. **DISTRICT-WIDE EDUCATIONAL MANAGEMENT**
Supervised on-the-job experience with related reading and study. The intern will work with district level administrators in applying management principles to an ongoing phase of a district-wide program. Students are involved with planning, implementing and evaluating various aspects of a district's educational program.
- 6971-3 **SPECIAL PROBLEMS**
1 to 3 hours credit. Prerequisite: Consent of instructor.
An organized course offering specialized study not normally or not often available as part of the regular course offerings. Special Problems Courses may be repeated for credit when the topics vary, but not more than 6 hours will apply to a Master's degree.

COURSE DESCRIPTIONS
EDUCATIONAL PSYCHOLOGY
(EDP)

- 5003 PSYCHOLOGICAL BASIS FOR LEARNING**
(3-0) 3 hours credit.
A concentrated analysis of mental processes important to learning and an evaluation of the major concepts, theories, and results of research in learning as applied to education.
- 5013 LEARNING THEORIES RELATED TO CHILD DEVELOPMENT**
(3-0) 3 hours credit.
A study of developmental and learning theories related to the growth of the child from infancy through childhood.
- 5023 LEARNING THEORIES RELATED TO ADOLESCENT DEVELOPMENT**
(3-0) 3 hours credit.
A study of developmental and learning theories related to the growth during the adolescent and adult period.
- 5203 THE GUIDANCE FUNCTION IN EDUCATION**
(3-0) 3 hours credit. Prerequisite: Graduate standing.
The role of guidance services in education. Focus will be on: teacher, counselor, administrator roles, current and emerging practices.
- 5213 DIAGNOSIS AND COUNSELING**
(3-0) 3 hours credit. Prerequisites: EDU 5003 and EDP 5203.
Counseling theory and techniques for identification of student problems. Focus on: tools and techniques for identification; counseling for personal adjustment.
- 5223 PSYCHOMETRIC PROCEDURES**
(3-0) 3 hours credit. Prerequisites: EDU 5003 and EDP 5203.
A study of instruments used to measure personality variables. Focus on administering and interpreting instruments measuring intellectual abilities.
- 5233 GROUP PROCESSES: THE INDIVIDUAL IN THE GROUP**
(3-0) 3 hours credit. Prerequisites: EDU 5003 and EDP 5203 or consent of instructor.
A study of group structure and theory. Focus on group influences on behavior.
- 5393 PRACTICUM IN COUNSELING**
(1-6) 3 hours credit. Prerequisites: EDP 5213 and EDP 5233.
Supervised experience identifying and diagnosing student problems in an educational setting.
- 5403 THE EXCEPTIONAL CHILD IN SCHOOL**
(3-0) 3 hours credit.
Study of children with unusual educational problems: educable and trainable mentally retarded, cerebral palsied, gifted, learning disabled; educational strategies for facilitating their learning; field experiences.

- 5413 THE MENTALLY RETARDED CHILD**
 (3-0) 3 hours credit. Prerequisite: EDP 5403.
 A study of the characteristics, needs, educational goals of the mentally retarded child. Current research and historical approaches to the education of this child will be examined.
- 5423 BEHAVIORAL MANAGEMENT AND THE EMOTIONALLY DISTURBED CHILD**
 (3-0) 3 hours credit. Prerequisite: EDP 5403 or consent of instructor.
 A study of the principles and theory of behavior modification with application to the emotionally disturbed child.
- 5583 PRACTICUM IN SPECIAL EDUCATION: LANGUAGE AND/OR LEARNING DISABILITIES**
 (0-10) 3 hours credit. Prerequisite: Consent of instructor.
 The application of theoretical principles to field settings. Student will work in educational settings which will include planning, implementing and evaluating appropriate experiences with students who have language and/or learning disabilities.
- 5593 PRACTICUM IN SPECIAL EDUCATION: EMOTIONALLY DISTURBED**
 (0-10) 3 hours credit. Prerequisite: Consent of instructor.
 The application of theoretical principles to field settings. Student will work in educational settings which will include planning, implementing and evaluating appropriate experiences with emotionally disturbed students.
- 6003 EDUCATIONAL SOCIAL SYSTEMS**
 (3-0) 3 hours credit. Prerequisites: EDP 5003 and EDP 5233.
 A study of social systems theory applied to educational settings. Students will integrate observational research methodology, social systems theory, and social learning theory to the analysis of schools, classrooms, and other educational groups.
- 6951-3 INDEPENDENT STUDY**
 1 to 3 hours credit. Prerequisites: Graduate standing and permission in writing (form available) of the instructor, the student's Graduate Advisor, and the Division Director and Dean of the College in which the course is offered.
 Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours will apply to the Master's degree.
- 6963-6 INTERNSHIP**
 (1-2) 3-6 hours credit.
 A supervised field-based experience in some aspect of educational psychology with related reading and study. May be repeated for credit to a maximum of 6 hours.
- 6971-3 SPECIAL PROBLEMS**
 1 to 3 hours credit. Prerequisite: Consent of instructor.
 An organized course offering specialized study not normally or

not often available as part of the regular course offerings. Special Problems Courses may be repeated for credit when the topics vary, but not more than 6 hours will apply to a Master's degree.

COURSE DESCRIPTIONS

HIGHER EDUCATION

(HED)

- 5003 THE DEVELOPMENT OF HIGHER EDUCATION IN THE U.S.**
(3-0) 3 hours credit.
A study of the transition from patterns of European institutions of higher learning to the development of uniquely American institutions. Relates the development of resources, human and physical, to the changing role of higher education in American society.
- 5103 CONTEMPORARY THOUGHT IN HIGHER EDUCATION**
(3-0) 3 hours credit.
A study of current thought as it relates to the management of institutions of higher education.
- 5203 THE AMERICAN COLLEGE STUDENT**
(3-0) 3 hours credit.
The college student's role in contemporary society; characteristics, basic values, peer group influence, campus culture, needs and pressures.
- 5303 SEMINAR IN GOVERNANCE OF HIGHER EDUCATION**
(3-0) 3 hours credit.
Analysis of current practices and issues in the governance of higher education which affect students, faculty, administration, scope and role of colleges and universities.
- 5403 RESOURCE ALLOCATIONS IN HIGHER EDUCATION**
(3-0) 3 hours credit.
Concepts and practices in financing, planning, program and institutional budgeting in higher education.
- 5603 THE DEVELOPMENT AND ORGANIZATION OF CONTINUING EDUCATION**
(3-0) 3 hours credit.
Continuing education conducted by business and industry, the armed forces, educational institutions and private foundations, including federal and state programs of support of continuing education. Exploration of the external and alternative degree programs including the university without walls, the open university concept and self study programs.
- 5613 METHODS IN ADULT AND CONTINUING EDUCATION**
(3-0) 3 hours credit.
An examination of delivery systems adapted to adult learning requirements to include television, radio, audio-tutorial and

computerized instruction. Individualized program instruction versus the traditional classroom, the format for adult learning, testing for comprehension and retention.

- 5623 **CONTINUING EDUCATION MANAGEMENT SYSTEMS**
(3-0) 3 hours credit.
Organization for adult and continuing education within a college or university and its relationship to the entire institution. Staffing, training, directing and controlling the continuing education effort. Planning, programming, and budgeting. Marketing and public relations. Methods of determining the market. Evaluation of administrative and academic performance.
- 5633 **FIELD WORK PRACTICUM IN CONTINUING EDUCATION**
(1-2) 3 hours credit.
A supervised experience concerned with coordinating continuing education programs. Activities include developing programs, finding community sponsors and clients, budgeting and staffing programs, implementing and evaluating programs. Students meet with other students and a senior staff member to discuss their experiences, problems, solutions and strategies.
- 6003 **THE COMMUNITY COLLEGE**
(3-0) 3 hours credit.
The historical and philosophical foundations for the community junior college movement in the United States will be analyzed and utilized as a basis for understanding contemporary trends and problems of community junior colleges.
- 6103 **EFFECTIVE TEACHING IN HIGHER EDUCATION**
(3-0) 3 hours credit.
A seminar that focuses on the image of the college professor and on a review of the current research of the teaching/learning process at the college or university level. Includes a review of educational psychology of the late adolescent and adult, an investigation of new and effective instructional methods, and an appraisal of evaluation procedures.
- 6951-3 **INDEPENDENT STUDY**
1 to 3 hours credit. Prerequisites: Graduate standing and permission in writing (form available) of the instructor, the student's Graduate Advisor, and the Division Director and Dean of the College in which the course is offered.
Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours will apply to the Master's degree.
- 6963-9 **INTERNSHIP IN HIGHER EDUCATION**
(1-2) 3-9 hours credit.
A supervised field-based experience in some aspect of higher education with related reading and study. May be repeated for credit to a maximum of 9 hours.

6971-3 SPECIAL PROBLEMS

1 to 3 hours credit. Prerequisite: Consent of instructor.

An organized course offering specialized study not normally or not often available as part of the regular course offerings. Special Problems Courses may be repeated for credit when the topics vary, but not more than 6 hours will apply to a Master's degree.

COURSE DESCRIPTIONS

SECONDARY EDUCATION

(SED)

5103 DIAGNOSIS AND PRESCRIPTION: INDIVIDUALIZING INSTRUCTION

(1-2) 3 hours credit.

This course is offered as C&I 5103 and is described with the Curriculum and Instruction course listings.

5203 PATTERNS OF INSTRUCTIONAL INTERACTION

(1-2) 3 hours credit.

This course is offered as C&I 5203 and is described with the Curriculum and Instruction course listings.

5743 READING IN SECONDARY SCHOOL

(3-0) 3 hours credit.

This course is offered as C&I 5743 and is described with the Curriculum and Instruction course listings.

6951-3 INDEPENDENT STUDY

1 to 3 hours credit. Prerequisites: Graduate standing and permission in writing (form available) of the instructor, the student's Graduate Advisor, and the Division Director and Dean of the College in which the course is offered.

Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours will apply to the Master's degree.

6971-3 SPECIAL PROBLEMS

1 to 3 hours credit. Prerequisite: Consent of instructor.

An organized course offering specialized study not normally or not often available as part of the regular course offerings. Special Problems Courses may be repeated for credit when the topics vary, but not more than 6 hours will apply to a Master's degree.

DIVISION OF ENVIRONMENTAL STUDIES

MASTER OF ARTS DEGREE IN ENVIRONMENTAL MANAGEMENT

Concentrations in:

Management of Human Resources
Urban Studies

The Master of Arts Degree in Environmental Management with concentrations in Management of Human Resources and Urban Studies is available to students whose undergraduate degrees are in a variety of areas. Upon completion of one of the concentrations, the graduate can look forward to a career with government agencies, industry, or planning organizations. The concentration in Management of Human Resources is especially well-suited for those individuals who wish to prepare for careers in manpower management, development, and management analysis in the public or private sectors. The concentration in Urban Studies is intended for those individuals seeking positions in city government and with governmental planning organizations.

Special Admission Requirements. For unconditional admission to the Master of Arts Degree Program in Environmental Management, applicants must meet university-wide graduate admission requirements. Those who have not met the requirement of 18 semester hours of course work in the field of environmental management are evaluated on an individual basis in order to ensure that their backgrounds are adequate for conditional admittance to the M.A. degree program.

Some or all of the following courses may be required as conditions for students whose backgrounds are insufficient to permit unconditional admission to the concentrations in Management of Human Resources and Urban Studies.

MGT 5003	Conceptual Paradigms of Management
ECO 5003	Economic Theory and Policy
MAT 5073	Methods of Statistics I
BDS 5003	Quantitative Methods for Business Analysis
BIO 5053	Life Sciences Today

The above courses are open only to graduate students and offer intensive work in the areas covered. No credit for these courses may count toward graduate degrees in Environmental Management.

Degree Requirements. All candidates for the Master of Arts Degree in Environmental Management are required to complete successfully a concentration in Management of Human Resources or a concentration in Urban Studies, and either Option I or Option II for the concentration as indicated below:

Concentration in Management of Human Resources

Option I (a total of 30 semester hours including thesis is required):

- ENV 5333 Manpower Training
- ENV 6303 Economics of Human Resources
- ENV 6323 Manpower Program Review and Evaluation
- ENV 6363 Manpower Policy
- ENV 6393 Manpower Models and Research
- ENV 6603 Investigative Methods in Environmental Studies
- ENV 6983 Master's Thesis (6 hours)

Six (6) semester hours of course work from a related field in Environmental Management or from another support area, as approved by the Graduate Advisor and Dean.

Option II (a total of 36 semester hours of approved course work is required, including six hours Internship or Independent Study)

- ENV 5313 Minorities and Manpower
- ENV 5333 Manpower Training
- ENV 6303 Economics of Human Resources
- ENV 6323 Manpower Program Review and Evaluation
- ENV 6343 Regional Analysis for Manpower Planning and Programming
- ENV 6363 Manpower Policy
- ENV 6393 Manpower Models and Research
- ENV 6603 Investigative Methods in Environmental Studies
- ENV 6963 Internship or ENV 6951-3 Independent Study (6 hours)

Six (6) semester hours of course work from a related field in Environmental Management or from another support area, as approved by the Graduate Advisor and Dean.

Concentration in Urban Studies

Option I (a total of 30 semester hours including thesis is required):

- ENV 5503 Urban Planning
- ENV 5513 Urban Research
- ENV 6513 Graphic Communications in Environmental Studies
- ENV 6533 Transportation Planning
- ENV 6553 Urban Economics
- ENV 6603 Investigative Methods in Environmental Studies
- ENV 6983 Master's Thesis (6 hours)

Six (6) semester hours of course work from a related field in Environmental Management or from another support area, as approved by the Graduate Advisor and Dean.

Option II (a total of 36 semester hours of approved course work is required, including six hours Internship or Independent Study)

- ENV 5503 Urban Planning
- ENV 5513 Urban Research
- ENV 6503 Urban Design Systems
- ENV 6513 Graphic Communication in Environmental Studies
- ENV 6533 Transportation Planning
- ENV 6543 Urban Service Systems
- ENV 6553 Urban Economics
- ENV 6603 Investigative Methods in Environmental Studies
- ENV 6963 Internship or ENV 6951-3 Independent Study (6 hours)

Six (6) semester hours of course work from a related field in Environmental Management or from another support area, as approved by the Graduate Advisor and Dean.

MASTER OF SCIENCE DEGREE IN ENVIRONMENTAL MANAGEMENT

Concentration in:

Management of Natural Resources

The Master of Science Degree in Environmental Management with a concentration in Management of Natural Resources is designed for the individuals whose backgrounds are in science, engineering, architecture, planning or management. Upon completion of the degree, the graduate can look forward to a career with governmental agencies, industry, research and planning organizations and educational institutions. The concentration in Management of Natural Resources is programmed for those individuals who intend to develop a career in managerial operations involving the utilization and protection of natural resources. The scientific analysis and evaluation techniques will be studied to prepare the students with systems perspectives for the environmental and societal problems. Both the macro-societal approach and the micro-institutional aspects will also be included in the program.

Because of the multidisciplinary approach to this program, two avenues are available. One is for those who have undergraduate degrees in the sciences or who have a satisfactory foundation in the sciences. A second plan for the degree program is for the students whose background in the sciences is not at a level which would enable him to proceed in a graduate program without additional study in the sciences. For students following this plan, foundation courses will be available which will serve as prerequisites for the courses required for this degree.

Special Admission Requirements. For unconditional admission to the Master of Science Degree Program in Environmental Management, applicants must meet university-wide graduate admission requirements. Those who have not met the requirement of 18 semester hours of course work in the field of environmental management are evaluated on an individual basis in order to ensure that their backgrounds are adequate for conditional admittance to the M.S. degree program.

Some or all of the following courses may be required as conditions for students whose backgrounds are insufficient to permit

unconditional admission to the concentration in the Management of Natural Resources.

MGT 5003	Conceptual Paradigms of Management
ECO 5003	Economic Theory and Policy
BIO 5053	Life Sciences Today
MAT 5073	Methods of Statistics I
EPS 5403	Earth Science
PHY 5703	Physical Science Studies I
PHY 5713	Physical Science II

Degree Requirements. All candidates for the Master of Science Degree in Environmental Management are required to complete successfully the concentration in Management of Natural Resources, and either Option I or Option II for the concentration as indicated below:

Concentration in Management of Natural Resources

Option I (a total of 30 semester hours including a thesis is required):

ENV 6603	Investigative Methods in Environmental Studies
ENV 6623	Economics of Natural Resources
ENV 6813	Water Management
ENV 6823	Land Management
ENV 6853	Energy Resources Management
ENV 6913	Decision Analysis for Environmental Management
ENV 6983	Master's Thesis (6 hours)

Six (6) semester hours of course work from a related field in Environmental Management or from another support area, as approved by the Graduate Advisor and Dean.

Option II (a total of 36 semester hours of approved course work is required, including six hours Internship or Independent Study):

ENV 6603	Investigative Methods in Environmental Studies
ENV 6623	Economics of Natural Resources
ENV 6813	Water Management
ENV 6823	Land Management

- ENV 6853 Energy Resources Management
- ENV 6863 Air Quality Management
- ENV 6913 Decision Analysis for Environmental Management
- ENV 6923 Modeling and Analysis of Environmental Systems
- ENV 6963 Internship or ENV 6951-3 Independent Study (6 hours)

Six (6) semester hours of course work from a related field in Environmental Management or from another support area, as approved by the Graduate Advisor and Dean.

COURSE DESCRIPTIONS ENVIRONMENTAL MANAGEMENT (ENV)

- 5103 ORGANIZATIONAL SYSTEMS ANALYSIS
(3-0) 3 hours credit.
This course is offered as MGT 5103 and is described with the Management course listing.
- 5203 HUMAN AND NATURAL RESOURCES
(3-0) 3 hours credit.
A study of the various dimensions of population as a resource or study emphasizing demographic variables such as birth rates, health, skills, and the role of humans in the environment. Natural resources are viewed from the contribution they make to the growth process of society. Major natural resources covered are water, land, and wildlife. The changing role of human and natural resources as they relate to technology over time is analyzed. This course may also be taken as BIO 5273.
- 5273 URBAN SETTLEMENTS
(3-0) 3 hours credit.
This course is offered as GRG 5313 and is described with the course listings in Geography.
- 5313 MINORITIES AND MANPOWER
(3-0) 3 hours credit. Prerequisite: Graduate standing or consent of instructor.
Examining and evaluating current manpower training and development programs in terms of education of minority groups. The problems encountered in the utilization of existing programs and the characteristics of the job market and its effects on their employability.
- 5323 PUBLIC POLICY FORMULATION
(3-0) 3 hours credit. Prerequisite: Graduate standing.
Processes through which public demands are generated, converted into formal policy and implemented. Focus is upon the

role of the administrator, and institutional-organizational contexts in which the administrator functions.

- 5333 **MANPOWER TRAINING**
(3-0) 3 hours credit.
A course dealing with the various dimensions of training of a labor force to meet the changing needs of the economy and society. The causes of human obsolescence, availability of resources to combat this problem and evaluation of various alternative solutions are studied.
- 5363 **ENVIRONMENTAL GEOLOGY**
(2-3) 3 hours credit.
This course is offered as EPS 5443 and is described with the Earth and Physical Sciences course listing.
- 5403 **HEALTH EFFECTS OF ENVIRONMENTAL POLLUTANTS**
(3-0) 3 hours credit. Prerequisite: A course in physiology and consent of instructor.
A course elaborating on the effects of pollutants upon the health of human beings. Study areas will consider how pulmonary irritants, ingested substances and contact materials act as fibrosis, granuloma, allergenic, carcinogenic and fever-producing agents. Systemic poisons will also be considered.
- 5413 **ECONOMICS OF HEALTH SYSTEMS**
(3-0) 3 hours credit.
The need for medical services, availability of resources, proposed public policy solutions along with demographic and technological impacts are studied.
- 5503 **URBAN PLANNING**
(3-0) 3 hours credit.
The evolution of city planning, conceptual tools available to the planner and the roles of technology and aesthetics in social change and city planning.
- 5513 **URBAN RESEARCH**
(3-0) 3 hours credit. Prerequisite: ENV 5503.
The development of specific analytical tools used in the analysis of urban activity and the application of these tools to analyze case histories. Model building using the systems approach is utilized.
- 5523 **COMPARATIVE URBAN DEVELOPMENT**
(3-0) 3 hours credit.
A comparative study of the interaction of culture, economics, and natural environment as they affect urban development over time. Areas covered include: pre-industrial cities in the Mediterranean, Medieval Europe, and Pre-Hispanic America. The impact of industrialization on traditional cities and of European influence on non-Western cities will be considered.
- 5533 **ECOLOGICAL DIMENSIONS OF URBAN SYSTEMS**
(3-0) 3 hours credit.
The theory of urban growth is studied in relation to the spatial

relationships of towns and cities. The role of ecological factors in city planning and development. The impact of ecology as it affects the quality of city life is considered and contrasted to the economic dimensions of these decisions.

- 5543 **URBAN HOUSING**
(3-0) 3 hours credit.
An analysis of housing problems, their causes and attempted solutions and ecological effects to include the dynamics of urban growth and aging processes.
- 5723 **ENVIRONMENTAL GEOSCIENCE**
(3-0) 3 hours credit. Prerequisite: Consent of the instructor.
Investigation into the physical phenomena that comprise the natural systems of the earth. The study of the relationships of interlocking, interacting systems that affect the earth and its inhabitants.
- 5733 **MARINE ENVIRONMENT AND RESOURCES**
(3-0) 3 hours credit. Prerequisite: Graduate standing.
Study of characteristics, process, and resources of the marine environment with focus upon the application of technology in exploring and developing natural resources for the future.
- 6203 **SURVEY OF ENVIRONMENTAL LAW**
(3-0) 3 hours credit.
A survey of current law and statutory provisions related to environmental management. Skills in evaluating legal briefs, law reviews and statutes will be developed.
- 6213 **GOVERNMENTAL REGULATION OF ENVIRONMENT**
(3-0) 3 hours credit. Prerequisite: Consent of the instructor.
Course will concern two major aspects of governmental regulations: a) the extent and purpose of the major federal legislation, b) the procedural operation pursuant to the various acts as they would affect environmental managers. The discussion of the major state regulatory laws will be covered.
- 6293 **SEMINAR IN ENVIRONMENTAL MANAGEMENT**
(3-0) 3 hours credit.
A selection of current topics of interest and importance in the area of natural resource management.
- 6303 **ECONOMICS OF HUMAN RESOURCES**
(3-0) 3 hours credit.
This course is offered as ECO 6303 and is described with the Economics course listing.
- 6313 **LABOR ECONOMICS**
(3-0) 3 hours credit.
This course is offered as ECO 6313 and is described with the Economics course listing.
- 6323 **MANPOWER PROGRAM REVIEW AND EVALUATION**
(3-0) 3 hours credit. Prerequisite: Graduate standing.
Application of systematic evaluative procedures for assessing the effectiveness of manpower programs; investigation of the

administrative and organizational issues which retard or support efforts to attain manpower policy objectives.

6333 HUMAN RESOURCES MANAGERIAL DECISION ANALYSIS

(3-0) 3 hours credit. Prerequisite: Graduate standing.

System approaches in decision-making concerning human resources management will be covered. Application of systems analysis, decision and utility theory, and other analytical techniques to select optimal policies of state, local, and national governments will be emphasized.

6343 REGIONAL ANALYSIS FOR MANPOWER PLANNING AND PROGRAMMING

(3-0) 3 hours credit. Prerequisite: Graduate standing.

Regional data and information analysis as a basis for manpower planning evaluation in terms of interaction of manpower, education, and welfare institutions. Evaluation of socio-economic impacts upon society due to the implementation of specific manpower programs on a regional level.

6353 APPLICATION OF MANPOWER PLANNING TECHNIQUES

(3-0) 3 hours credit. Prerequisite: Graduate standing.

Research relating to the information requirements of state and local manpower planning and to the actual utilization of such data in budgeting for and implementing manpower programs.

6363 MANPOWER POLICY

(3-0) 3 hours credit.

This course is offered as ECO 6363 and is described with the Economics course listing.

6373 ECONOMICS OF POVERTY

(3-0) 3 hours credit.

This course is offered as ECO 6373 and is described with the Economics course listing.

6393 MANPOWER MODELS AND RESEARCH

(3-0) 3 hours credit. Prerequisite: Graduate standing or the consent of the instructor.

The process of manpower modeling and planning methodologies, especially the constraints and the goals to be considered in specific human resources program development. Research concerning population and labor market models and utilization of such analytical tools in case studies of manpower policymaking.

6503 URBAN DESIGN SYSTEMS

(3-0) 3 hours credit.

A study of the physical interrelationship among urban residential sectors, urban cores, institutional areas, and circulation systems within the context of the natural environment. Scope of study extends from small groups of users to existing and new communities.

- 6513 **GRAPHIC COMMUNICATION IN ENVIRONMENTAL STUDIES**
 (3-0) 3 hours credit.
 To introduce the student to the use of graphics and other representational techniques as a means of expressing and conceptualizing ideas; (1) mapping, (2) cinema, video photography as a device to dramatize situations, (3) graphic notation systems, (4) printing and production of a report.
- 6523 **NEW TOWN PLANNING AND DEVELOPMENT**
 (3-0) 3 hours credit.
 Examination of the development and redevelopment of new communities including resource commitments and instruments for effectuation and implementation. Topics include the evaluation of alternative social, economic and physical management plans.
- 6533 **TRANSPORTATION PLANNING**
 (3-0) 3 hours credit.
 The course will examine existing and future urban transportation systems and principles in terms of their impact on urban, human and natural resources.
- 6543 **URBAN SERVICE SYSTEMS**
 (3-0) 3 hours credit.
 Study of urban service systems (e.g., medical service, delivery systems, police systems, fire systems) as interrelated systems by analyzing their measures of effectiveness and common problems. Mathematical models for analyzing these functions are reviewed.
- 6553 **URBAN ECONOMICS**
 (3-0) 3 hours credit.
 This course is offered as ECO 6553 and is described with the Economics course listing.
- 6603 **INVESTIGATIVE METHODS IN ENVIRONMENTAL STUDIES**
 (3-0) 3 hours credit. Prerequisites: MAT 1022, MAT 1031, MAT 1051, and MAT 1062.
 A course intended to give the student the quantitative tools to gather, analyze, present, and interpret information dealing with human and natural resources. An effort is made to apply analytical tools to the interaction of these resources in the environment.
- 6613 **APPLIED ECOLOGY**
 (3-0) 3 hours credit.
 The impact of economic and related activity on the environment as it pertains to its effect on water, land, animal, and human resources. An evaluation of programs available and possible future undertakings to preserve a healthy environment which will be compatible with economic progress. This course may also be taken as BIO 5253.

- 6623 **ECONOMICS OF NATURAL RESOURCES**
 (3-0) 3 hours credit.
 A study of governmental and private programs to promote prudent, efficient use of natural resources by society. Cost benefit analysis is utilized to evaluate alternate solutions in formulating policy.
- 6643 **CONCEPTS FOR ENVIRONMENTAL MANAGEMENT**
 (3-0) 3 hours credit.
 The application of management concepts as they relate to the development of human and natural resources and as they apply to urban growth. The initiation, organization, and development of programs to utilize efficiently human and natural resources in urban growth are examined.
- 6813 **WATER MANAGEMENT**
 (3-0) 3 hours credit.
 An application of management principles to the efficient utilization of water resources by society. A study of water as a resource, its value, uses and changing role over time, as a result of ecological change. The formulation of public policy toward water resources is studied.
- 6823 **LAND MANAGEMENT**
 (3-0) 3 hours credit.
 An analysis of the various alternative uses of land and the methodology by which land is evaluated so as to put it to its most productive uses. The changing role of land as a resource as it is related to human and technological development is examined. Legal dimensions of natural resources will be considered.
- 6833 **ECONOMIC GEOLOGY**
 (3-0) 3 hours credit.
 The use of mineral resources as viewed from an economic dimension. Location of resources, transportation aspects, processing, and the role of changing technology as they relate to the value of these resources are analyzed.
- 6843 **GROUNDWATER RESOURCES MANAGEMENT**
 (3-0) 3 hours credit. Prerequisite: Graduate standing.
 Study of the characteristics, occurrence, distribution, and consumption of groundwater resources with special emphasis placed on the management aspects of efficient usage and conservation.
- 6853 **ENERGY RESOURCES MANAGEMENT**
 (3-0) 3 hours credit. Prerequisite: Physical Science background or the consent of the instructor.
 The flow of energy through agricultural and industrial social systems will be traced from production to final dissipation as heat, and each step will be investigated, together with its environmental impacts.
- 6863 **AIR QUALITY MANAGEMENT**
 (3-0) 3 hours credit. Prerequisites: EPS 5703, EPS 5713, and consent of the instructor.

An introduction to the broad field of air pollution control. Discussed are the overall objectives and systematic efforts to deal with air pollution, including air shed regions, air quality criteria, development of air quality standards, and plans for implementing them.

- 6873 **AIR POLLUTION SURVEY AND CONTROL**
(3-0) 3 hours credit. Prerequisites: EPS 5703, EPS 5713, and consent of the instructor.
The sources of the air pollutants and the measurements of individual constituents; specific methods of air pollution control techniques; and the instrumentation and equipment available for both air pollution survey and control.
- 6883 **SOLID WASTES COLLECTION AND DISPOSAL**
(3-0) 3 hours credit. Prerequisite: Bachelor of Science.
The problems and characteristics of different solid wastes in both municipal and industrial sources; the methods of collection and disposal of different kinds of solid wastes; the systems approach applied to the utilization and elimination of solid wastes.
- 6893 **WATER POLLUTION CONTROL DESIGN AND OPERATION**
(3-0) 3 hours credit. Prerequisites: EPS 5703, EPS 5713, and college calculus.
Principles and methods of water pollution control process design and operation; and the selection and optimization of total treatment processes as well as appurtenances and accessory equipments; the methods involved in the preliminary process design and the detailed engineering design together with the selection of the hardware.
- 6903 **PATTERNS OF PROBLEM SOLVING**
(3-0) 3 hours credit. Prerequisite: Physical science background, and graduate student standing or with consent of instructor.
To discuss the tools, concepts and philosophies underlying the formulation and solution of problems relevant to society and technology in a way that unifies diverse academic disciplines to handle the triangle of environment, energy, and economy.
- 6913 **DECISION ANALYSIS FOR ENVIRONMENTAL MANAGEMENT**
(3-0) 3 hours credit. Prerequisite: Statistics and graduate standing or with consent of instructor.
The role of analysis tools in the areas of costing analysis, decision, and utility theory as they are applied to the efficient utilization of natural resources. The subject is approached from a public sector rather than from a business firm point of view.
- 6923 **MODELING AND ANALYSIS OF ENVIRONMENTAL SYSTEMS**
(3-0) 3 hours credit. Prerequisite: College calculus and graduate standing or with the consent of instructor.
Introduction to the use of analytical models of environmental systems. The study of the developments in the field of systems

analysis, cybernetics and optimization techniques applied to environmental problem-solving.

6951-3 INDEPENDENT STUDY

1 to 3 hours credit. Prerequisites: Graduate standing and permission in writing (form available) of the instructor, the student's Graduate Advisor, and the Division Director and Dean of the College in which the course is offered.

Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours will apply to the Master's degree.

6963 INTERNSHIP

(0-9) 3 hours credit each. Prerequisite: Approval of the Dean.

An opportunity will be provided the student to work in an environmental management setting which will permit him to apply the knowledge learned in the formal instruction part of the program. May be repeated for credit to a maximum of 6 hours.

6971-3 SPECIAL PROBLEMS

1 to 3 hours credit. Prerequisite: Consent of instructor.

An organized course offering specialized study not normally or not often available as part of the regular course offerings. Special Problems Courses may be repeated for credit when the topics vary, but not more than 6 hours will apply to a Master's degree.

6983 MASTER'S THESIS

(3-0) 3 hours credit. Prerequisite: Admission to candidacy and permission of the Graduate Advisor and thesis director.

Thesis research preparation. May be repeated for credit, but not more than 6 hours will apply to the Master's degree. Credit will be awarded upon completion of the thesis. Enrollment is required each term in which the thesis is in progress.

College of Sciences and Mathematics

The College of Sciences and Mathematics will, when fully operative, offer professional education at both the graduate and undergraduate levels. Degree programs will be available in the sciences, quantitative studies, and allied health professions. A broad-based core of courses contributing to the total education of The University's non-science majors will be provided. The College is dedicated to programs which provide education in the theoretical aspects of the disciplines, stressing applications. Whenever possible, the multidisciplinary concept is utilized in instruction.

Pending completion of permanent facilities, graduate programs and courses in the sciences and mathematics will be limited to those which can be offered in temporary facilities.

DIVISION OF ALLIED HEALTH AND LIFE SCIENCES

MASTER OF SCIENCE DEGREE IN BIOLOGY

The graduate program in Biology is directed to those students who desire advanced education in specialized areas of the life sciences. Two degree options are available: a non-thesis program, for students who wish to obtain the M.S. degree through course work; a thesis program, recommended for those desiring to develop expertise in research design and methodology. The thesis option provides in-depth knowledge of a specialized field of interest and is recommended for the student planning a research career. The non-thesis program is particularly suitable for individuals teaching in the life sciences. Such students will be allowed the option of supplementing Science and Mathematics courses from approved courses offered in other colleges.

Graduate faculty in areas such as Biochemistry, Microbiology, Molecular Biology, Physiology and Genetics are available to direct student research or specialized education.

A program is organized around each student's interests in cooperation with the student's advisor and committee.

Special opportunities are available for cooperative projects with other area research institutions. A special program in marine biology and ecology is available with the Marine Science Institute of The University of Texas located at Port Aransas, Texas. Facilities include a variety of modern laboratories with sea water facilities, controlled environment chambers and a wet laboratory. Marine training cruises are conducted on the 80-foot Longhorn and the 40-foot Lorene. Various course offerings include the biology and physiology of marine organisms, marine chemistry, oceanography, and marine and estuarine ecology. Further details may be obtained at the Division Office.

Special Admission Requirements. There are no special admission requirements for the Master of Science Degree in Biology other than the university-wide graduate admission requirements. Ordinarily, applicants are expected to have completed an undergraduate major in biology. Students whose undergraduate preparation is not adequate to pursue the graduate program will be required to complete certain courses as conditions of admission.

Those students who have less than full preparation should anticipate that additional time will be required to complete the degree.

Degree Requirements. All candidates for the degree are required to complete successfully 36 semester hours of graduate credit. These 36 hours will be subject to the following condition:

1. A minimum of 18 hours of graduate credit must be earned within the Division.
2. A student electing the non-thesis program is required to complete 3 hours of BIO 6951-3, Independent Study, in addition to 18 organized class hours in the Division.
3. If a student elects the thesis program, 6 hours of BIO 6983, Master's Thesis, must be completed in addition to the 18 organized class hours within the Division.

COURSE DESCRIPTIONS

BIOLOGY

(BIO)

- 5011 **LIFE SCIENCES COLLOQUIUM**
(1-0) 1 hour credit. Prerequisite: Graduate standing.
Current research presented by faculty, visiting lecturers and thesis candidates.
- 5052 **SEMINAR IN BIOLOGY**
(2-0) 2 hours credit. Prerequisite: Graduate standing in biology.
Discussions, current literature and recent advances in specialized areas of Allied Health and Life Sciences. Seminars are organized according to areas of interest and may be repeated for credit.
- 5053 **LIFE SCIENCES TODAY**
(3-0) 3 hours credit.
An in-depth study of biology, stressing the physical and chemical bases of living systems. The course is suitable for a non-biologist desiring an understanding of modern biological concepts.
- 5073 **SOCIETAL IMPLICATIONS OF MODERN BIOLOGICAL RESEARCH**
(3-0) 3 hours credit. Prerequisite: College biology or consent of instructor.
Current biological research will be studied in order to enable the student to evaluate its impact on existing social structures and mores, i.e., genetic engineering; *in vitro* embryogenesis; transplantation immunity.
- 5233 **ENVIRONMENTAL AND POPULATION BIOLOGY**
(3-0) 3 hours credit. Prerequisite: Graduate standing or consent of instructor.

The role of the environment in population regulation and control. To include topics such as environmental cycles of the past and subsequent population changes, human alterations of the environment and their consequences.

- 5253 **APPLIED ECOLOGY**
(3-0) 3 hours credit.
This course is offered as ENV 6613 and is described with the course listings in Environmental Studies.
- 5263 **MICROBIAL ECOLOGY**
(3-0) 3 hours credit. Prerequisite: Microbiology.
A study of the mutual relationships between microorganisms and their environment, especially natural habitats of microorganisms (including normal human flora and pathogens), parasitism, and opportunism in various microbial species.
- 5271 **MICROBIAL ECOLOGY LABORATORY**
(0-3) 1 hour credit.
Must be elected concurrently with BIO 5263.
- 5273 **HUMAN AND NATURAL RESOURCES**
(3-0) 3 hours credit.
This course is offered as ENV 5203 and is described with the course listings in Environmental Studies.
- 5312 **CYTOGENETICS**
(2-0) 2 hours credit. Prerequisite: Genetics.
An analysis of chromosome structure and function, gene location crossing-over and variations in chromosome structure and number.
- 5321 **CYTOGENETICS LABORATORY**
(0-3) 1 hour credit.
Must be elected concurrently with BIO 5312.
- 5333 **ECOLOGICAL GENETICS**
(3-0) 3 hours credit. Prerequisites: BIO 2313 and BIO 2321 or the equivalent. Biostatistics highly recommended.
An experimental approach to the interaction of genotype and environment in populations with emphasis on mutagenesis, selection, polymorphism, and adaptive mechanisms.
- 5341 **ECOLOGICAL GENETICS LABORATORY**
(0-3) 1 hour credit.
Must be taken concurrently with BIO 5333.
- 5353 **MOLECULAR AND BIOCHEMICAL GENETICS**
(3-0) 3 hours credit. Prerequisites: Genetics and biochemistry.
Molecular and biochemical aspects of structure, replication, mutation and phenotypic expression of genetic material.
- 5433 **NEUROPHYSIOLOGY**
(3-0) 3 hours credit. Prerequisite: General physiology.
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.

- 5463 **REPRODUCTIVE BIOLOGY**
(3-0) 3 hours credit. Prerequisite: Mammalian physiology.
A comparative study of vertebrate reproduction including control, hormonal regulation and environmental factors.
- 5471 **REPRODUCTIVE BIOLOGY LABORATORY**
(0-3) 1 hour credit.
Must be taken concurrently with BIO 5463.
- 5542 **ENZYMES**
(2-0) 2 hours credit. Prerequisites: Intermediary metabolism and physical chemistry.
A study of enzyme mechanisms, co-factors, kinetics and regulation.
- 5551 **ENZYMES LABORATORY**
(0-3) 1 hour credit.
Must be taken concurrently with BIO 5542.
- 5553 **EXPERIMENTAL BIOCHEMISTRY**
(0-6) 3 hours credit. Prerequisite: Intermediary metabolism.
Laboratory techniques in methods of biochemical fractionation, purification and analysis of cellular components.
- 5563 **BIOCHEMICAL MACROMOLECULES**
(3-0) 3 hours credit. Prerequisites: Biochemistry and intermediary metabolism (or physical chemistry).
A detailed study of the biosynthesis and properties of proteins and nucleic acids. This course may also be taken as CHE 5153.
- 5633 **CYTODIFFERENTIATION AND ORGANOGENESIS**
(3-0) 3 hours credit. Prerequisite: Embryology.
Mechanisms of morphogenetic cell movement, adhesion, segregation and chemotaxis during development.
- 5743 **BIOCHEMICAL VIROLOGY**
(3-0) 3 hours credit. Prerequisites: Microbiology and biochemistry.
A detailed study of the diversity of viruses and biochemical mechanisms for their replication.
- 5751 **BIOCHEMICAL VIROLOGY LABORATORY**
(0-3) 1 hour credit.
Must be taken with or following BIO 5743.
- 5833 **MEMBRANE STRUCTURE AND FUNCTION**
(3-0) 3 hours credit. Prerequisites: Cellular biology and biochemistry.
A study of the composition, organization, transport functions and permeability of natural and model membranes.
- 6012 **CLINICAL LABORATORY HISTOLOGY AND CYTOLOGY**
(2-0) 2 hours credit. Prerequisites: Laboratory courses in histology and in cytogenetics.
Recent developments and clinical applications of techniques in the microscopic analysis of blood, cells, tissues, and organs of the human body.

- 6021 **CLINICAL HISTOLOGY AND CYTOLOGY LABORATORY**
(0-4) 1 hour credit.
Must be elected concurrently with BIO 6012.
- 6232 **TERRESTRIAL ECOLOGY**
(2-0) 2 hours credit.
Interaction of terrestrial animals and plants with their environments; factors which contribute to population growth, control and dispersal of biotic communities.
- 6241 **TERRESTRIAL ECOLOGY LABORATORY**
(0-4) 1 hour credit.
Must be elected concurrently with BIO 6232.
- 6372 **INVERTEBRATE PHYSIOLOGY**
(2-0) 2 hours credit. Prerequisite: Physiology or consent of instructor.
An investigation of the mechanisms of respiration, movement, ion and water regulation and hormonal integration in the invertebrates.
- 6381 **INVERTEBRATE PHYSIOLOGY LABORATORY**
(0-4) 1 hour credit.
Must be elected concurrently with BIO 6372.
- 6472 **ENVIRONMENTAL PHYSIOLOGY**
(2-0) 2 hours credit. Prerequisite: Physiology.
Lectures, reports and laboratory work on the physiological responses to heat, cold, light, social stimuli and atmospheric pressure in the vertebrate organisms.
- 6481 **ENVIRONMENTAL PHYSIOLOGY LABORATORY**
(0-3) 1 hour credit.
Must be elected concurrently with BIO 6472.
- 6482 **ANIMAL BEHAVIOR**
(2-0) 2 hours credit. Prerequisite: Vertebrate physiology or consent of instructor.
Evolutionary origins and trends of major behavioral patterns with emphasis on organization and adaptive significance. Neural, endocrine, genetic and environmental factors modifying behavior will be examined.
- 6491 **ANIMAL BEHAVIOR LABORATORY**
(0-3) 1 hour credit.
Must be elected concurrently with BIO 6482.
- 6503 **THE PHYSIOLOGY OF AGGRESSION**
(3-0) 3 hours credit. Prerequisite: Physiology or permission of instructor.
This course is designed to deal with the neurological factors of aggressive behavior, including environmental causes of aggression, the effects of drugs and the control of aggression, as well as the role of aggression in modern society. Emphasis will be placed on the elucidation of behavioral mechanisms and the evaluation of experimental design in behavior research.

- 6643 **CELLULAR AND MOLECULAR BIOLOGY**
 (3-0) 3 hours credit. Prerequisites: Biochemistry and cellular biology or consent of instructor. Molecular organization and function of cells and subcellular units, regulation of metabolism, chromosome structure, and active transport.
- 6651 **CELLULAR AND MOLECULAR BIOLOGY LABORATORY**
 (0-3) 1 hour credit.
 Must be elected concurrently with BIO 6643.
- 6663 **EXPERIMENTAL PARASITOLOGY I**
 (3-0) 3 hours credit. Prerequisite: A course in parasitology or consent of instructor.
 A study of animal parasites with special emphasis on the physiology of host-parasite interactions.
- 6671 **EXPERIMENTAL PARASITOLOGY LABORATORY**
 (0-4) 1 hour credit.
 Must be elected concurrently with BIO 6663.
- 6773 **HOST-PARASITE INTERACTIONS**
 (3-0) 3 hours credit. Prerequisite: A laboratory course in pathogenic microorganisms.
 A study of infectious disease processes with emphasis on host-parasite relationships of selected microbial pathogens.
- 6781 **HOST-PARASITE INTERACTIONS LABORATORY**
 (0-4) 1 hour credit.
 Must be elected concurrently with BIO 6773.
- 6782 **DIAGNOSTIC MICROBIOLOGY**
 (2-0) 2 hours credit. Prerequisites: A laboratory course in Medical Microbiology and consent of instructor.
 Recent developments in principles and techniques of diagnostic and epidemiologic microbiology with applications in the clinical laboratory.
- 6791 **DIAGNOSTIC MICROBIOLOGY LABORATORY**
 (0-4) 1 hour credit.
 Must be elected concurrently with BIO 6782.
- 6793 **IMMUNOLOGY AND IMMUNOCHEMISTRY**
 (3-0) 3 hours credit. Prerequisite: Laboratory course in immunology.
 The study of current concepts of humoral and cell-mediated immunity with emphasis on molecular mechanisms.
- 6813 **INFORMATION RETRIEVAL: BIOMEDICAL APPLICATIONS**
 (3-0) 3 hours credit. Prerequisites: MAT 1073 or MAT 1713 or the equivalent, and consent of instructor.
 Reporting, analysis, storage retrieval of biomedical data; emphasis on application of systems analysis to epidemiology of hospital infections, environmental control, fate of clinical reports.

- 6873 MICROBIAL PHYSIOLOGY AND ENERGETICS**
(3-0) 3 hours credit. Prerequisites: Microbiology and intermediary metabolism.
Consideration of physiological activities of microorganisms with special emphasis on metabolic capabilities of bacteria and other microorganisms.
- 6881 MICROBIAL PHYSIOLOGY LABORATORY**
(0-3) 1 hour credit.
Must be elected concurrently with BIO 6873.
- 6951-3 INDEPENDENT STUDY**
1 to 3 hours credit. Prerequisites: Graduate standing and permission in writing (form available) of the instructor, the student's Graduate Advisor, and the Division Director and Dean of the College in which the course is offered.
Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours will apply to the Master's degree.
- 6971-3 SPECIAL PROBLEMS**
1 to 3 hours credit. Prerequisite: Consent of instructor.
An organized course offering specialized study not normally or not often available as part of the regular course offerings. Special Problems Courses may be repeated for credit when the topics vary, but not more than 6 hours will apply to a Master's degree.
- 6983 MASTER'S THESIS**
(3-0) 3 hours credit. Prerequisites: Admission to candidacy and permission of the Graduate Advisor and thesis director.
Thesis research and preparation. May be repeated for credit, but not more than 6 hours will apply to the Master's degree. Credit will be awarded upon completion of the thesis. Enrollment is required each term in which the thesis is in progress.

DIVISION OF EARTH AND PHYSICAL SCIENCES

MASTER OF SCIENCE DEGREE IN CHEMISTRY

The purpose of graduate work in chemistry is to provide a sound preparation in the fundamentals of the several areas of chemistry, an introduction to recent advances in theory and methods, and research experience. Students who receive an advanced degree in this area are prepared for responsible positions in academic institutions, industry or government.

Graduate study in chemistry is offered in the areas of analytical, organic, inorganic, and physical chemistry and in bio-organic chemistry. A marine chemistry specialization is available in cooperation with the Marine Science Institute at Port Aransas.

Special Admission Requirements. In addition to satisfying the university-wide graduate admission requirements, a candidate for the Master of Science degree with a major in Chemistry must also have completed a minimum of twenty-four undergraduate semester hours in chemistry, of which twelve or more must be upper-division courses. Included in the undergraduate chemistry requirement are two semesters of organic, two of physical, and one of biochemistry with the appropriate laboratory for each. All undergraduate chemistry must be completed with a grade of B or higher.

Degree Requirements. The Master of Science program requires the successful completion of 36 semester hours. The following plan will be followed by all candidates:

CHE 5113	Advanced Organic Chemistry	(3 credits)
CHE 5123	Advanced Physical Chemistry	(3 credits)
CHE 5133	Advanced Inorganic Chemistry	(3 credits)
	Seminars in area of concentration	(3 credits)
CHE 5173	Techniques of Chemical Research	(3 credits)
CHE 6973	Special Problems	(3 credits)
	Electives in advanced math, computer science and area of concentration	(12 credits)
CHE 6983	Master's Thesis	(6 credits)

The following electives normally are required for the chemistry specializations:

1. For the Analytical Chemistry specialization:
Advanced Analytical Chemistry CHE 5143
Advanced Inorganic Chemistry CHE 5133
2. For the Bio-organic Chemistry specialization:
Cellular Biology BIO 3813 & BIO 3821
Advanced Instrumental Analysis CHE 5163
3. For the Organic Chemistry specialization:
Advanced Instrumental Analysis CHE 5163
Topics in Biogeochemistry CHE 5283
4. For the Marine Chemistry specialization:
Advanced Instrumental Analysis CHE 5163
Advanced Marine Chemistry CHE 5253

COURSE DESCRIPTIONS

CHEMISTRY

(CHE)

- 5113 **ADVANCED ORGANIC CHEMISTRY**
(3-0) 3 hours credit. Prerequisites: Eight hours of organic chemistry and eight hours of physical chemistry.
An advanced study of topics in organic chemistry such as natural products; conformational analysis; nonbenzenoid aromaticity; metallocenes; biogenesis and biosynthesis; organic mass spectrometry; photochemistry.
- 5123 **ADVANCED PHYSICAL CHEMISTRY**
(3-0) 3 hours credit. Prerequisite: Eight credits of physical chemistry.
An advanced study of topics in solution chemistry; electrochemistry; surface chemistry; catalysis; photochemistry; quantum mechanics; statistical thermodynamics.
- 5133 **ADVANCED INORGANIC CHEMISTRY**
(3-0) 3 hours credit. Prerequisite: Six credits of upper-division inorganic chemistry.
Modern theories of bonding in inorganic systems; introduction to crystal field theory and study of organometallic substances.
- 5143 **ADVANCED ANALYTICAL CHEMISTRY**
(3-0) 3 hours credit. Prerequisite: Three credits of upper-division undergraduate analysis using instrumental techniques.
Theory, principles and applications of absorption techniques. Topics include visual, ultra-violet, infra-red, atomic absorption, flame and emission spectroscopy.

- 5153 **BIOCHEMICAL MACROMOLECULES**
 (3-0) 3 hours credit. Prerequisite: Six hours of upper-division undergraduate biochemistry.
 This course is offered as BIO 5563 and is described with the course listings in Biology.
- 5163 **ADVANCED INSTRUMENTAL ANALYSIS**
 (3-0) 3 hours credit. Prerequisites: CHE 3223 and CHE 3232.
 A study of theory and practice of mass spectrometry, NMR, I.R., U.V., AA, liquid chromatography, fluorescence, Mossbauer and X-ray electron spectroscopy.
- 5173 **TECHNIQUES OF CHEMICAL RESEARCH**
 (3-0) 3 hours credit. Prerequisite: Graduate standing in chemistry.
 A study of experimental design, literature survey, research tools, result reporting and other topics.
- 5181 **SEMINAR IN ORGANIC CHEMISTRY**
 (1-0) 1 hour credit. Prerequisite: Graduate standing in chemistry or consent of Division Director.
 May be repeated for credit when topic varies. Discussions of current research and literature in organic chemistry.
- 5191 **SEMINAR IN PHYSICAL CHEMISTRY**
 (1-0) 1 hour credit. Prerequisite: Graduate standing in chemistry or consent of Division Director.
 May be repeated for credit when topic varies. Discussions of current research and literature in physical chemistry.
- 5201 **SEMINAR IN ANALYTICAL AND INORGANIC CHEMISTRY**
 (1-0) 1 hour credit. Prerequisite: Graduate standing in chemistry or consent of Division Director.
 May be repeated for credit when topic varies. Discussions of current research and literature in analytical and inorganic chemistry.
- 5213 **CHEMICAL THERMODYNAMICS**
 (3-0) 3 hours credit. Prerequisite: CHE 3203 or its equivalent.
 An advanced study of chemical thermodynamics.
- 5223 **CHEMICAL KINETICS**
 (3-0) 3 hours credit. Prerequisite: CHE 3223 or its equivalent.
 An advanced study of topics in chemical kinetics.
- 5233 **THE CHEMICAL BOND**
 (3-0) 3 hours credit. Prerequisite: CHE 4253 or its equivalent.
 An advanced study of the nature of the chemical bond.
- 5243 **QUANTUM MECHANICS**
 (3-0) 3 hours credit. Prerequisites: CHE 4253 and MAT 2213 or consent of instructor.
 A study of applications of quantum mechanics to chemistry.
- 5253 **ADVANCED MARINE CHEMISTRY**
 (3-0) 3 hours credit. Prerequisites: CHE 1163, six hours upper-

- division undergraduate chemistry and graduate standing.
A study of chemical processes in the sea.
- 5263 **MARINE SCIENCE RESEARCH**
(3-0) 3 hours credit. Prerequisites: Graduate standing and consent of instructor resident at the Marine Science Institute. Student residence at the Marine Science Institute is required. May be repeated once for credit. With consent of Division Director and Dean, may be taken under the non-thesis option.
- 5283 **TOPICS IN BIOGEOCHEMISTRY**
(3-0) 3 hours credit. Prerequisites: CHE 2223, graduate standing and consent of the instructor.
Residence at the Marine Science Institute required. Production, distribution, composition and preservation of organic matter in the sea.
- 5293 **CHEMICAL SYNTHESIS OF BIOLOGICALLY IMPORTANT MOLECULES**
(3-0) 3 hours credit. Prerequisite: One year of organic chemistry.
An examination of possible approaches to the laboratory synthesis of natural products of biological significance such as steroids, quinine, insect juvenile hormones.
- 5303 **THE CHEMICAL ENVIRONMENT**
(3-0) 3 hours credit. Prerequisite: One year of undergraduate chemistry or consent of instructor.
A study of the chemical nature of our environment and the chemical reactions involved.
- 5313 **CHEMISTRY OF URBAN WASTE MANAGEMENT**
(3-0) 3 hours credit. Prerequisite: One year of undergraduate chemistry or consent of instructor.
A study of the theory and practice of treatment and disposal of solid, liquid and gaseous wastes.
- 6951-3 **INDEPENDENT STUDY**
1 to 3 hours credit. Prerequisites: Graduate standing and permission in writing (form available) of the instructor, the student's Graduate Advisor, and the Division Director and Dean of the College in which the course is offered.
Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours will apply to the Master's degree.
- 6971-3 **SPECIAL PROBLEMS**
1 to 3 hours credit. Prerequisite: Consent of instructor.
An organized course offering specialized study not normally or not often available as part of the regular course offerings. Special Problems Courses may be repeated for credit when the topics vary, but not more than 6 hours will apply to a Master's degree.

- 6983 **MASTER'S THESIS**
(3-0) 3 hours credit. Prerequisites: Admission to candidacy and permission of the Graduate Advisor and thesis director. Thesis research and preparation. May be repeated for credit, but not more than 6 hours will apply to the Master's degree. Credit will be awarded upon completion of the thesis. Enrollment is required each term in which the thesis is in progress.

COURSE DESCRIPTIONS
EARTH AND PHYSICAL SCIENCES
(EPS)

- 5403 **EARTH SCIENCE**
(2-3) 3 hours credit.
Study of the solid earth, oceans and atmosphere. Composition and physical processes of the earth's crust, interpretation of ancient environments and the evolution of North America.
- 5413 **FIELD GEOLOGY**
(0-13) 3 hours credit. Prerequisite: A course in general geology or consent of instructor.
Field study of igneous, sedimentary, and metamorphic rocks. Construction of planimetric and topographic maps, use of aerial photographs and instruction in basic surveying techniques. Three weeks, full-time, in the San Antonio and Central Texas area.
- 5423 **MINERALS AND ROCKS**
(2-3) 3 hours credit. Prerequisite: a course in general geology or consent of instructor.
Crystallography and crystal chemistry. Physical properties and identification of the more common minerals. Origin, occurrence and identification of major rock types.
- 5433 **OCEANOGRAPHY**
(3-0) 3 hours credit. Prerequisite: A course in general geology or consent of instructor.
A survey of the processes in the oceans, nature of the ocean basins, current patterns and element distribution.
- 5443 **ENVIRONMENTAL GEOLOGY**
(2-3) 3 hours credit. Prerequisite: A course in introductory geology or consent of instructor.
Geologic materials and processes as related to their influence on man's physical environment. Effects of landscape modification and geologic hazards such as earthquakes and landslides. This course may also be taken as ENV 5363.
- 5454 **PALEONTOLOGY**
(3-3) 4 hours credit. Prerequisite: A course in historical geology or consent of instructor.
Morphology, classification and distribution of invertebrate, vertebrate, and plant fossils. Elements of evolution and paleoecology. Methods of study.

- 5703 PHYSICAL SCIENCE STUDIES I**
 (3-0) 3 hours credit. Prerequisite: Graduate standing or consent of instructor.
 A non-calculus study of the principles of physics and chemistry. May not be used to satisfy the requirements of a major in either of these subjects.
- 5713 PHYSICAL SCIENCE STUDIES II**
 (3-0) 3 hours credit. Prerequisite: Credit for Physical Science Studies I or consent of instructor.
 A non-calculus study of the principles of chemistry, geology and astronomy. May not be used to satisfy the requirements of a major in any of these subjects.
- 5723 RECENT DEVELOPMENTS IN PHYSICAL SCIENCE**
 (3-0) 3 hours credit. Prerequisite: Graduate standing or consent of instructor.
 Studies of recent developments in physical science. A course intended for individuals teaching chemistry, earth science or physics. May not be used to satisfy the requirements of a major in any of these subjects.
- 5733 FUTURE ENERGY SOURCES**
 (3-0) 3 hours credit. Prerequisites: Graduate standing or consent of instructor and one year of introductory undergraduate physics.
 A study of the basic concept of energy, its forms and applications; oriented toward present and predicted energy sources and requirements.
- 5743 PHYSICS FOR BIOLOGY AND MEDICAL STUDENTS**
 (3-0) 3 hours credit. Prerequisites: A two semester course in introductory physics and college algebra.
 A detailed treatment of physical principles most applicable to biology and medicine: mechanics, fluid flow, basic properties of gases and liquids, heat transfer, simple circuits, biomembranes, acoustics, and optics.

DIVISION OF MATHEMATICS, COMPUTER SCIENCE, AND SYSTEMS DESIGN

MASTER OF SCIENCE DEGREE IN MATHEMATICS, COMPUTER SCIENCE, AND SYSTEMS DESIGN

The graduate program in Mathematics, Computer Science, and Systems Design is directed to those individuals who desire training in both mathematics and computer science and will enable graduates of the program at the Master's level to perform as applied mathematicians capable of utilizing sophisticated computer systems.

Because of the heterogeneous backgrounds and interests of students in this area a multi-track program is available. The student, with the approval of an assigned faculty advisory committee, is able to select a degree program ranging from mathematics to a computer science orientation. Additionally the student is allowed the option of supplementing his mathematics and computer science courses with approved courses from other disciplines.

Some undergraduate courses may be required for students whose backgrounds in either mathematics or computer science are insufficient to permit full admission to the graduate degree program.

Special Admission Requirements. There are no special admission requirements for the Master of Science Degree in Mathematics and Systems Design other than the university-wide graduate admission requirements. It is recommended highly that at least a B.A. or B.S. in Mathematics or Computer Science or a closely related field be completed as preparation. Those students who have less than full preparation should anticipate that additional time will be required to complete the degree.

Degree Requirements. All candidates for the degree are required to successfully complete 36 semester hours of credit. These 36 hours will be subject to the following conditions:

1. A minimum of 18 hours of organized course work must be chosen from courses within the Division of Mathematics, Computer Science, and Systems Design with numbers greater than 5000.

2. Each student in the Master's program is required to complete 3 hours of special problems in addition to the formal class hours within the Division. These problems will be arranged to suit the individual programs of the students.
3. With the approval of the student's faculty advisory committee, 6 semester hours chosen from courses numbered between 4000 and 4999 within the Division of Mathematics, Computer Science, and Systems Design may be included in the degree program.

COURSE DESCRIPTIONS

MATHEMATICS, COMPUTER SCIENCE, AND SYSTEMS DESIGN (MAT)

- 5073 **METHODS OF STATISTICS I**
(3-0) 3 hours credit.
Emphasis on methods and applications of statistics. Measures of location, variability and association. Interpretation of categorical data. Hypothesis testing. Use of packaged programs. Applications. (May not be counted toward the mathematics major.)
- 5083 **METHODS OF STATISTICS II**
(3-0) 3 hours credit. Prerequisite: MAT 5073.
A continuation of MAT 5073 with emphasis on linear statistical models. Use of packaged programs. Applications. (May not be counted toward the mathematics major.)
- 5203 **THEORY OF FUNCTIONS OF A REAL VARIABLE I**
(3-0) 3 hours credit. Prerequisite: MAT 4223 or the equivalent.
Lebesgue measure and integration theory.
- 5213 **THEORY OF FUNCTIONS OF A REAL VARIABLE II**
(3-0) 3 hours credit. Prerequisite: MAT 5203.
Further development of Lebesgue measure and integration theory, metric space topology, and elementary Banach space theory.
- 5223 **THEORY OF FUNCTIONS OF A COMPLEX VARIABLE I**
(3-0) 3 hours credit. Prerequisite: MAT 4223.
Complex integration, Cauchy's theorem, calculus of residues, power series.
- 5233 **THEORY OF FUNCTIONS OF A COMPLEX VARIABLE II**
(3-0) 3 hours credit. Prerequisite: MAT 5223.
Infinite products, entire functions, Picard's theorem, Riemann mapping theorem, functions of several complex variables.
- 5243 **GENERAL TOPOLOGY I**
(3-0) 3 hours credit. Prerequisite: Consent of instructor.
Topological spaces, metric spaces, continua, plane topology.

- 5253 **GENERAL TOPOLOGY II**
 (3-0) 3 hours credit. Prerequisite: MAT 5243.
 Continuation of MAT 5243, introductory algebraic topology, introduction to topology of manifolds.
- 5263 **APPLIED ALGEBRA I**
 (3-0) 3 hours credit. Prerequisite: MAT 4233 or the equivalent.
 Algebraic structures may include groups, rings, fields, Galois theory, ideal theory, and representations of groups.
- 5273 **APPLIED ALGEBRA II**
 (3-0) 3 hours credit. Prerequisite: MAT 5263 or the equivalent.
 Ideas and techniques of modern algebra applied to the area of computer science.
- 5283 **LINEAR ALGEBRA AND MATRIX THEORY I**
 (3-0) 3 hours credit. Prerequisite: MAT 2233 or the equivalent.
 A study of linear algebraic structures and algebraic properties of matrices.
- 5293 **NUMERICAL LINEAR ALGEBRA**
 (3-0) 3 hours credit. Prerequisite: MAT 2233 or consent of instructor.
 Study of stable numerical methods for the solution of linear systems of equations, least square problems and matrix eigen-value problems. Applications in statistics and in the numerical solution of differential equations.
- 5453 **FORMAL GRAMMARS AND PROGRAMMING LANGUAGES**
 (3-0) 3 hours credit. Prerequisites: MAT 5713 and consent of instructor.
 Models of computation, formal models of syntax and semantics for programming languages.
- 5503 **PROBABILITY AND STATISTICAL THEORY**
 (3-0) 3 hours credit. Prerequisite: Consent of instructor.
 Axioms of probability, random variables and their distributions, mathematical techniques.
- 5513 **MATHEMATICAL STATISTICS AND INFERENCE**
 (3-0) 3 hours credit. Prerequisite: MAT 5503 or consent of instructor.
 Theory and applications of statistics. Sampling distributions, tests of hypotheses, point and interval estimation.
- 5523 **APPLIED STOCHASTIC PROCESSES**
 (3-0) 3 hours credit. Prerequisite: Consent of instructor.
 Basic theory of stochastic processes and applications. Second order processes, Markov chains and processes, renewal theory, queuing theory.
- 5543 **MULTIVARIATE STATISTICAL ANALYSIS**
 (3-0) 3 hours credit. Prerequisite: Consent of instructor.
 Theory, analysis and interpretation of multivariate statistical models. Correlation, regression, linear models, structure of multivariate observations. Use of packaged programs. Applications.

- 5553 **NON-PARAMETRIC STATISTICS**
 (3-0) 3 hours credit. Prerequisite: MAT 5513 or consent of instructor.
 Methods and theory of non-parametric statistics.
- 5563 **LINEAR MODELS I**
 (3-0) 3 hours credit. Prerequisite: MAT 5513 or consent of instructor.
 Theory, analysis and interpretation of regression and analysis of variance models. Use of packaged programs. Applications.
- 5573 **LINEAR MODELS II**
 (3-0) 3 hours credit. Prerequisite: MAT 5563 or consent of instructor.
 A continuation of MAT 5563.
- 5583 **SEMINAR IN STATISTICS**
 (3-0) 3 hours credit. Prerequisite: Consent of instructor.
 Topics of interest in applied and theoretical statistics. Possible topics include: analysis of categorical data, design of experiments, sampling techniques, sufficiency, estimation theory, topics in multivariate analysis, hypothesis testing theory.
- 5603 **NUMERICAL ANALYSIS**
 (3-0) 3 hours credit. Prerequisite: Graduate standing or consent of instructor.
 Emphasis on the mathematical analysis of numerical methods. Topics include solution of nonlinear equations and function optimization, approximation theory and numerical quadrature.
- 5613 **NUMERICAL SOLUTION OF DIFFERENTIAL EQUATIONS**
 (3-0) 3 hours credit. Prerequisite: MAT 5603 or the equivalent.
 Emphasis on the mathematical analysis of numerical methods. Topics include the analysis of single and multistep methods for ordinary differential equations. Analysis of finite difference and finite elements for partial differential equations.
- 5623 **SIMULATION TECHNIQUES**
 (3-0) 3 hours credit. Prerequisite: Consent of instructor.
 Techniques in simulation on a digital computer. Generation of random numbers from a distribution, Monte Carlo techniques, use of simulation languages. Development of simulation models for specific problems.
- 5653 **ORDINARY DIFFERENTIAL EQUATIONS I**
 (3-0) 3 hours credit. Prerequisites: MAT 4223, MAT 2233 or their equivalents.
 Linear systems and Laplace transforms. Existence, uniqueness, and stability theorems for non-linear systems.
- 5663 **ORDINARY DIFFERENTIAL EQUATIONS II**
 (3-0) 3 hours credit. Prerequisites: MAT 5653 and MAT 5203.
 Analysis of singular points, Sturm-Liouville theorem, asymptotic expansions, selected topics from the qualitative theory of linear and non-linear systems.

- 5673 **PARTIAL DIFFERENTIAL EQUATIONS I**
 (3-0) 3 hours credit. Prerequisites: MAT 4223 and MAT 2233 or their equivalents.
 Classical theory of initial value and boundary value problems for partial differential equations.
- 5683 **PARTIAL DIFFERENTIAL EQUATIONS II**
 (3-0) 3 hours credit. Prerequisites: MAT 5673 and MAT 5203.
 Modern aspects of the theory of partial differential equations.
- 5703 **STRUCTURE OF PROGRAMMING LANGUAGES I**
 (3-0) 3 hours credit. Prerequisite: MAT 1723 or the equivalent.
 Study of the features of a variety of programming languages including list processing languages.
- 5713 **STRUCTURE OF PROGRAMMING LANGUAGES II**
 (3-0) 3 hours credit. Prerequisite: MAT 5703 or the equivalent.
 An introduction to the design and implementation of assemblers and compilers.
- 5723 **PROGRAMMING TECHNIQUES AND FILE DESIGN AND MANIPULATION**
 (3-0) 3 hours credit. Prerequisite: MAT 1723 or the equivalent.
 Data base design, analysis, and management techniques.
- 5733 **THEORY OF ALGORITHMS**
 (3-0) 3 hours credit. Prerequisite: MAT 5713.
 Introduction to the rigorous concepts of algorithms and the relationship between algorithms and computing machines.
- 5763 **INFORMATION RETRIEVAL SYSTEMS**
 (3-0) 3 hours credit. Prerequisite: MAT 5723
 Design and implementation of information retrieval and data base management systems.
- 6603 **OPTIMIZATION TECHNIQUES IN OPERATIONS RESEARCH**
 (3-0) 3 hours credit. Prerequisite: Consent of instructor.
 Analysis and application of optimization techniques in Operations Research. Emphasis on linear programming, non-linear programming, integer programming, and dynamic programming.
- 6613 **PROBABILISTIC MODELS IN OPERATIONS RESEARCH**
 (3-0) 3 hours credit. Prerequisite: MAT 3513 or consent of instructor.
 Analysis and application of basic probabilistic models in Operations Research. Queueing theory, inventory theory, Markov decision processes, reliability theory, decision analysis.
- 6623 **SEMINAR IN OPTIMIZATION**
 (3-0) 3 credit hours. Prerequisite: Consent of instructor.
 Topics in the analytical techniques and models of operations research, with emphasis on optimization. Mathematical programming and dynamic programming, including integer programming and discrete dynamic programming. Optimization in network models.

6951-3 INDEPENDENT STUDY

1 to 3 hours credit. Prerequisites: Graduate standing and permission in writing (form available) of the instructor, the student's Graduate Advisor, and the Division Director and Dean of the College in which the course is offered.

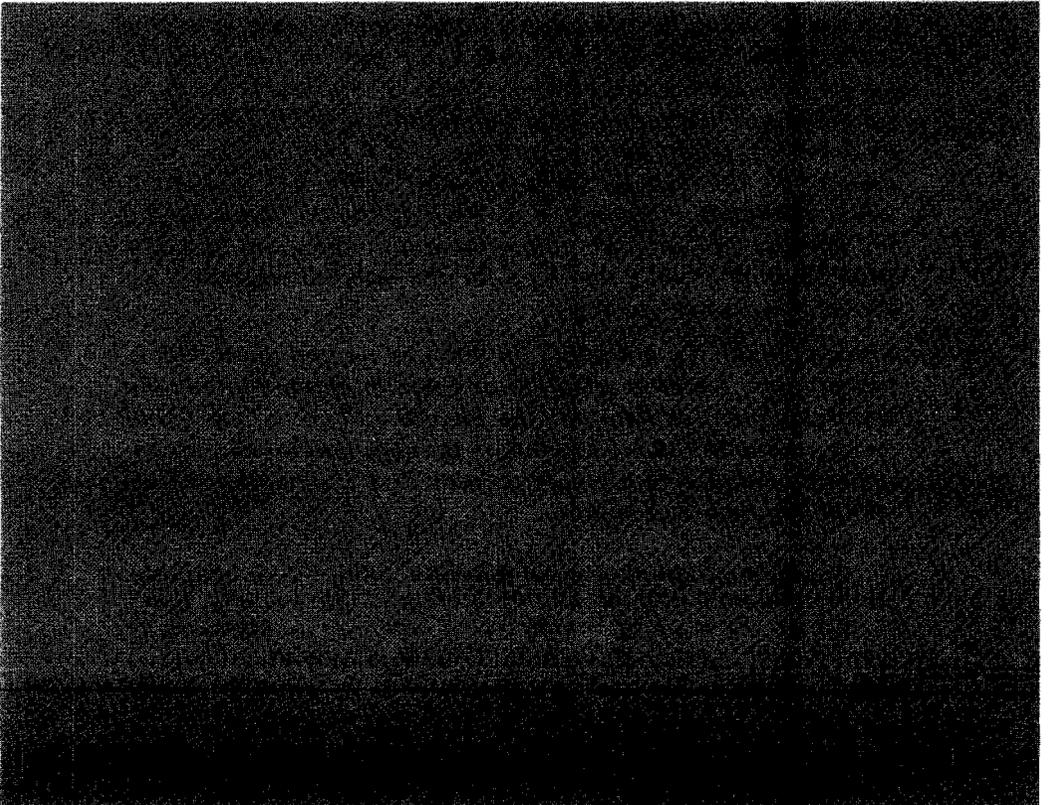
Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours will apply to the Master's degree.

6971-3 SPECIAL PROBLEMS

1 to 3 hours credit. Prerequisite: Consent of instructor.

An organized course offering specialized study not normally or not often available as part of the regular course offerings. Special Problems Courses may be repeated for credit when the topics vary, but not more than 6 hours will apply to a Master's degree.

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 purpose 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, § 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 of 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*

*The reference to the 22nd birthday should be interpreted as the 19th birthday.

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.

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. 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 are 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 woman, 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 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 veteran 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.

**Subparagraph (d), Section 54.058 has been repealed by House Bill 736, 63rd Legislature, effective August 27, 1973.*

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 had 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 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 directly 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 registra-

tion 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.

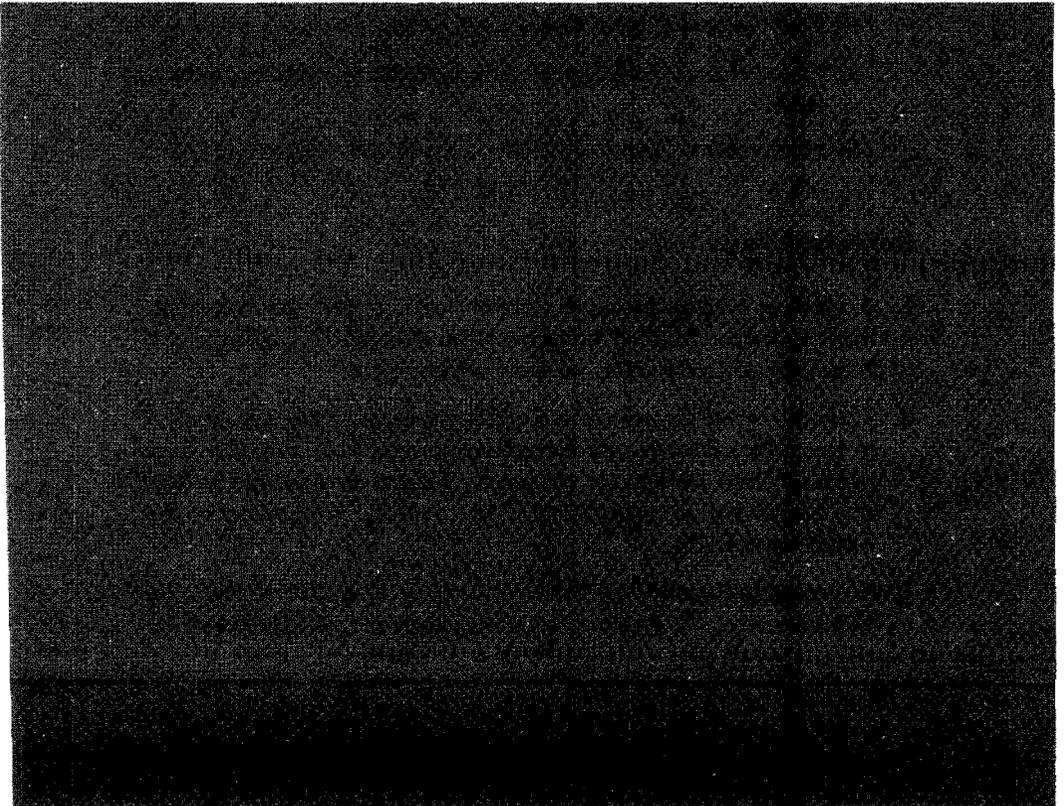
Section 54.061 The governing board of an institution of higher education may assess and collect from each nonresident student who fails to comply with the rules and regulations of the boards concerning nonresident fees a penalty not to exceed \$10 a semester.

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 board of the respective institutions of higher education.



Appendix B



PROFESSIONAL CERTIFICATE PROGRAMS FOR PERMANENT CERTIFICATION FOR TEACHING IN THE PUBLIC SCHOOLS OF TEXAS

Introduction

The University of Texas at San Antonio is approved by the Texas Education Agency to recommend students for teacher certification in the following areas:

- 1) Professional Elementary Certificate
 - A. General: Classroom Teaching
 - B. Bicultural-Bilingual Concentration
 - C. Reading Concentration
 - D. Early Childhood Concentration
 - E. Kindergarten Endorsement Concentration
- 2) Kindergarten Endorsement Only
- 3) Professional Secondary Certificate
 - A. General: Classroom Teaching
 - B. Bicultural-Bilingual Concentration
 - C. Reading Concentration
- 4) Professional Supervisor's Certificate
- 5) Professional Administrator's Certificate—Mid Management
- 6) Professional Administrator's Certificate—Superintendent

Important Facts

1. A student taking graduate courses at UT San Antonio may work toward a Master's degree only, a Master's degree and a Professional Certificate, or a certificate only.
2. Students working toward a Certificate *must* make application to the Office of Teacher Certification and Placement *and be admitted* to a certificate program. This is in addition to the application for admission to UT San Antonio submitted to the Admissions Office.
3. Any course substituted for a course listed on the Certificate Program must be approved by the student's advisor and the

Office of Teacher Certification and Placement. It is the student's responsibility to see that this is done.

4. Approximately $\frac{1}{3}$ or more of the Certification Program must be taken at UT San Antonio. In no instance will this be less than 9 semester hours.
5. It is the student's responsibility to see that all requirements are met. A 3.0 grade point average must be maintained each semester.
6. No official certificate program will be planned for a student by the Office of Teacher Certification and Placement until after the student has been admitted.

Procedural Steps for Certification

1. Student makes application to Office of Teacher Certification and Placement at time of admission to The University.
2. Student receives letter of acceptance with a copy of Certification Plan.
3. Advisor is given one copy of Certification Plan and one copy remains in student's file.
4. At completion of Certification Program, student makes Application for Certificate to Office of Teacher Certification and Placement.
5. University recommendation and application sent to Texas Education Agency in Austin.
6. Certificate mailed to the student from Austin.

Admission Requirements to Certification Program

1. Admission to The University and approval of the Division of Education and other Divisions as appropriate to the certification program sought.
2. Be a U.S. citizen, or have evidence of having made application for citizenship.
3. Hold a valid Teacher's Certificate in Texas.

4. Have a grade point average of 3.0 on a four point scale on upper division and graduate work or approval of Office of Teacher Certification and Placement.

Requirements for University Recommendation for Certificate (in addition to Admission Requirements)

1. Completion of official Certificate Program Plan.
2. Three years of teaching experience in an accredited school (two years for Administrator's Certificate).
3. Grade point average of 3.0 on all work taken on certificate program. 3.0 average is required in all courses in Education, and 3.0 average is required in all courses in an academic concentration.
4. Have taken the Graduate Record Examination (GRE), or ATGSB. Test scores must be sent directly to UT San Antonio Admissions Office.

Certification Requirements

Professional Elementary Certificate (30 semester hours;
Prerequisite: The Provisional Elementary Certificate)

Options:

A. General: Classroom Teaching

1. 15 semester hours in Art, Biology, Economics, English, Geography, History, Mathematics, Spanish or Business.
2. BBL 5013
3. EDU 5003
4. EDP 5003, or EDP 5013
5. Any 6 semester hours for elementary teachers but preferably ECE 5453 or ECE 5473.

B. Bicultural-Bilingual Concentration

1. BBL 5013, BBL 5023, BBL 5033, plus 9 semester hours electives BBL.
2. EDU 5003
3. EDP 5003, or EDP 5013
4. Any 6 semester hours for elementary teachers but preferably ECE 5453 or ECE 5473.

C. Reading Concentration

1. C&I 5753, C&I 5773, ECE 5733 or C&I 5733, C&I 5793, SED 5743 or C&I 5743
2. BBL 5013
3. EDU 5003
4. EDP 5003, or EDP 5013
5. Any 6 semester hours for elementary teachers but preferably ECE 5453 or ECE 5473.

D. Early Childhood Concentration

1. 12 semester hours from the following: C&I 5513, C&I 5523, ECE 6103, ECE 6143, ECE 6163, ECE 6183
2. BBL 5013, ECE 6123
3. EDU 5003
4. EDP 5003, or EDP 5013
5. Any 6 semester hours for elementary teachers but preferably ECE 5453 and ECE 5473.

E. Kindergarten Endorsement Concentration

1. ECE 5123, EDP 5013, ECE 5143
2. C&I 5503 or EDU 4066
3. BBL 5013
4. 3 semester hours elective. Consent of advisor.
5. EDU 5003
6. EDP 5003, or EDP 5013
7. Any 6 semester hours for elementary teachers but preferably ECE 5453 or ECE 5473.

Kindergarten Endorsement Only (12 semester hours)

1. ECE 5123, EDP 5013, ECE 5143
2. C&I 5503 or EDU 4066

Professional Secondary Certificate (30 semester hours; Prerequisite: The Provisional Secondary Certificate)

Options:

A. General: Classroom Teaching

1. 15 semester hours in Art, Biology, Economics, English, Geography, History, Mathematics, Spanish or Business.
2. BBL 5013
3. EDU 5003
4. EDP 5003 or EDP 5023

5. Any 6 semester hours for secondary teachers but preferably C&I 5703, C&I 5003 or C&I 5403
- B. Bicultural-Bilingual Concentration**
1. BBL 5013, BBL 5023, BBL 5033, plus 9 semester hours electives BBL
 2. EDU 5003
 3. EDP 5003 or EDP 5023
 4. Any 6 semester hours for secondary teachers but preferably C&I 5703, C&I 5003 or C&I 5403
- C. Reading Concentration**
1. C&I 5753, C&I 5773, ECE 5733 or C&I 5733, C&I 5793, SED 5743 or C&I 5743
 2. BBL 5013
 3. EDU 5003
 4. EDP 5003 or EDP 5023
 5. Any 6 semester hours for secondary teachers but preferably C&I 5703, C&I 5003 or C&I 5403.

Professional Supervisor's Certificate (30 semester hours)

1. C&I 6003, C&I 6013, C&I 6023
2. BBL 5013, EDU 5003, EDU 5103
3. 3 semester hours from C&I 5503, C&I 5603, C&I 5703, C&I 5803, C&I 5003 or ECE 6103.
4. 9 semester hours with consent of advisor.

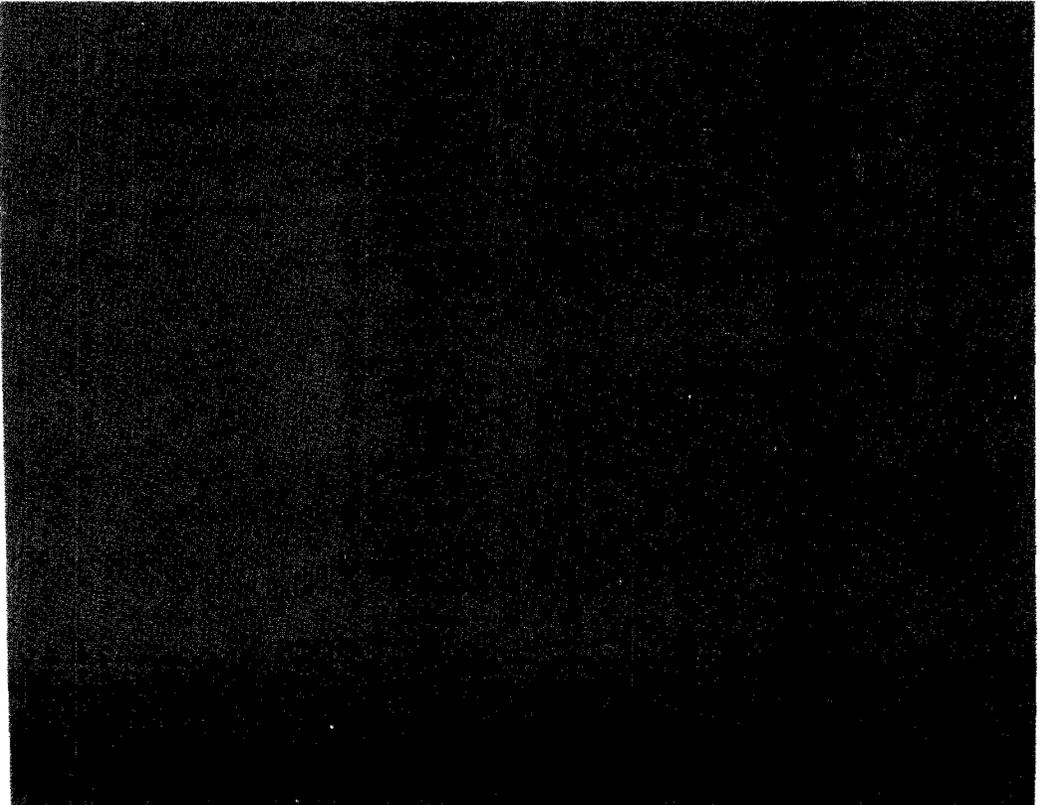
Professional Administrator's Certificate—Mid-Management (45 semester hours including a Master's degree)

1. EDM 5003, C&I 6003, EDU 5003, EDU 5103, EDM 5503, EDP 5003 or EDP 5023
2. BBL 5013
3. 6 semester hours electives. Consent of advisor.
4. EDM 5103, EDM 5403, EDU 5703, EDM 6971-3, EDM 5203 or EDM 5303
5. EDM 6963.1

Professional Administrator's Certificate—Superintendent (15 semester hours in addition to Mid-Management Certificate)

1. EDM 6103, EDM 6203, EDM 6303, EDU 5503
2. EDM 6963.2

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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, 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 Degree Programs

and Courses	College Deans
Admission	Director of Admissions
Changes of Enrollment	Registrar
Continuing Education	Dean of Continuing Education
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	Registrar
Transcripts	Registrar
Veterans Affairs	Registrar
Withdrawal from University	Registrar

COURSE ABBREVIATIONS

COLLEGE OF BUSINESS

- ACC — Accounting
- BDS — Business Data Systems
- BLW — Business Law
- ECO — Economics
- FIN — Finance
- MGT — Management
- MKT — Marketing

COLLEGE OF FINE AND APPLIED ARTS

- ART — Art
- AHC — Art History and Criticism
- MUS — Music

COLLEGE OF HUMANITIES AND SOCIAL SCIENCES

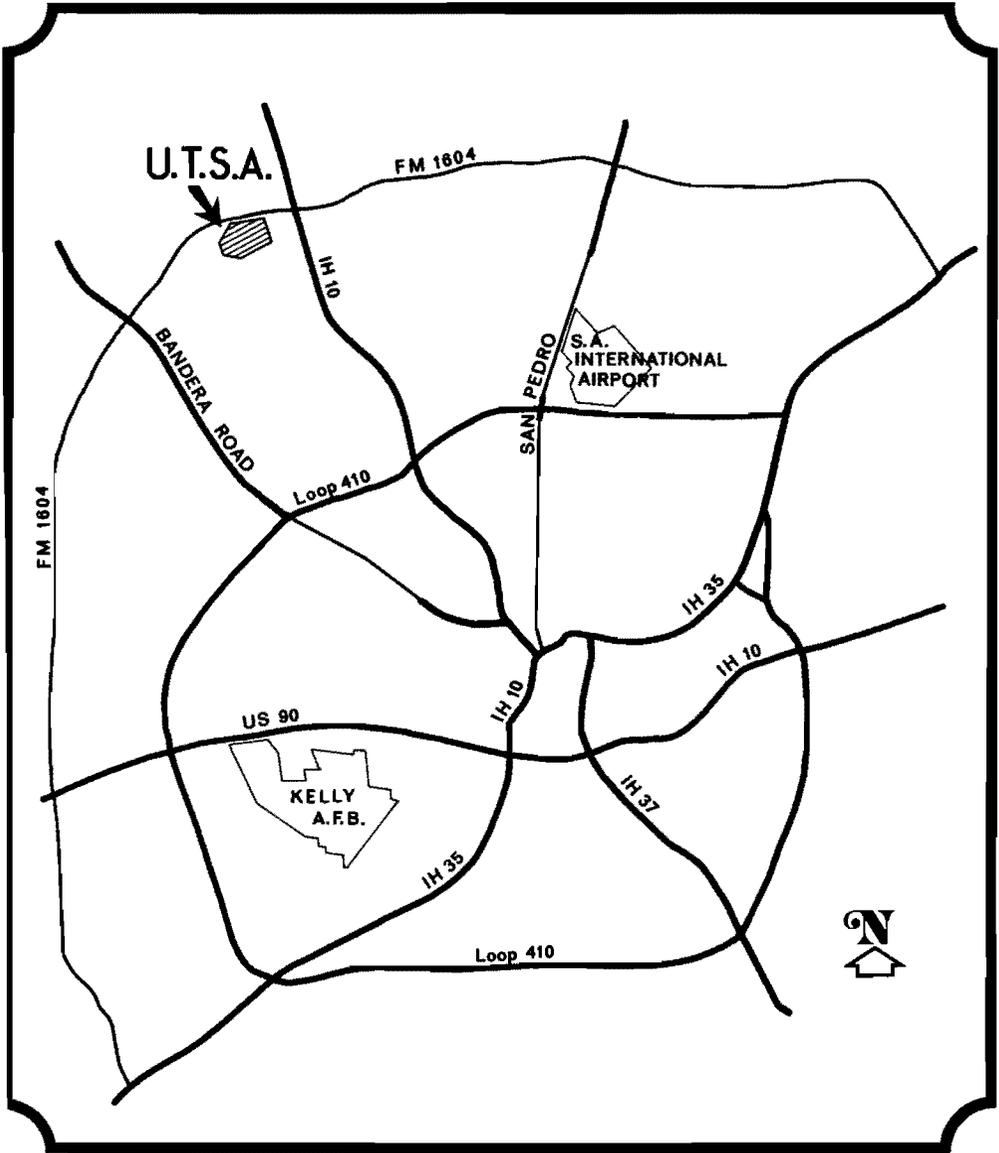
- ENG — English
- SPN — Spanish
- CL — Comparative Literature
- LNG — Linguistics
- HIS — History
- ANT — Anthropology
- GRG — Geography
- POL — Political Science
- SOC — Sociology

COLLEGE OF MULTIDISCIPLINARY STUDIES

- BBL — Bicultural-Bilingual Studies
- ESL — English as a Second Language
- C&I — Curriculum and Instruction
- ECE — Early Childhood and Elementary Education
- EDU — Education
- EDM — Educational Management
- EDP — Educational Psychology
- HED — Higher Education
- SED — Secondary Education
- ENV — Environmental Management

COLLEGE OF SCIENCES AND MATHEMATICS

- BIO — Biology
- CHE — Chemistry
- EPS — Earth and Physical Sciences
- MAT — Mathematics, Computer Sciences, and Systems Design





A COMPONENT INSTITUTION OF THE UNIVERSITY OF TEXAS SYSTEM

