Bulletin
of
The University of Texas
at
San Antonio

Graduate Catalog 1974-75
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 development of The University of Texas at San Antonio and its academic programs during 1973-74 has made necessary the present revision of the Graduate Catalog. Since publication of its first Catalog in the spring of 1973, The University's faculty and student body have increased significantly. For example, more than 700 graduate students registered at UT San Antonio in June of 1973, and more than 1100 registered in the fall of the same year. From these students The University received its first hard information on student demand for courses, degree programs, and certificate programs.

The unexpectedly heavy graduate enrollment, while gratifying, required The University to appoint additional faculty for certain academic programs, to increase course offerings in all academic areas, and to initiate degree and certificate programs originally planned for later implementation. Additional classroom space to accommodate the needs of faculty and students has been acquired.

The 1974-75 Graduate Catalog thus reflects the degree of growth and change that The University of Texas at San Antonio has experienced as a developing metropolitan university.

Peter T. Flawn
President
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THE UNIVERSITY OF TEXAS SYSTEM
BOARD OF REGENTS

A. C. McNeese, Jr., Chairman
Dan C. Williams, Vice-Chairman
Betty Anne Thedford, Secretary

Terms Expire January, 1975
Frank C. Erwin, Jr. ......................................................... Austin
Jenkins Garrett ............................................................... Fort Worth
Dan C. Williams .............................................................. Dallas

Terms Expire January, 1977
Mrs. Lyndon B. Johnson ........................................ Stonewall
A. C. 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

SYSTEM ADMINISTRATION
Charles A. LeMaistre, Chancellor
E. D. Walker
Deputy Chancellor for Administration
THE UNIVERSITY OF TEXAS AT SAN ANTONIO  
ADMINISTRATIVE OFFICERS

Peter T. Flawn .................................................. President
Kenneth H. Ashworth .................................. Executive Vice President
Beverly J. Gibbs ............................................ Vice President for Academic Affairs
Everitt M. Mahon ........................................... Vice President for Business Affairs
Richard E. W. Adams ..... Dean, College of Humanities and Social Sciences
E. Douglas Hodo ......................................... Dean, College of Business
Joseph Michel ......................................... Dean, College of Multidisciplinary Studies
Jacinto Quirarte .................................. Dean, College of Fine and Applied Arts
Bernard P. Sagik ....................................... Dean, College of Sciences and Mathematics
William C. Lindley .................. Dean, Division of Continuing Education
Tomás Rivera ............. Associate Dean, College of Multidisciplinary Studies
Milo E. Kearney ........ Assistant Dean for Certification and Teacher Placement, College of Multidisciplinary Studies
Dora G. Grossenbacher ......................... Dean of Students
Michael F. Kelly .................................... Director of Libraries
Richard L. Lewis .................. Director of Admissions and Registrar
A. W. Hunt, III ...... Director of Management Information Systems and Assistant to the President for Planning
DIVISION DIRECTORS

COLLEGE OF BUSINESS
Leslie L. McNells
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 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. Geaves
Division of Social Sciences

COLLEGE OF MULTIDISCIPLINARY STUDIES
Albar Peña
Division of Bicultural-Bilingual Studies
Robert T. Alciatore
Division of Education
Chia Shun Shib
Division of Environmental Studies

COLLEGE OF SCIENCES AND MATHEMATICS
B. S. Thyagarajan
Division of Allied Health Professions
Stanley G. Wayment
Division of Earth and Life Sciences
Division of Mathematics and Systems Design
Division of Physical Sciences
FACULTY

COLLEGE OF BUSINESS

Division of Accounting and Business Data Systems
Leslie L. McNelis, Professor, B.B.A., University of Oklahoma; M.B.A.,
University of Tulsa; Ph.D., University of Oklahoma

Division of Economics and Finance
E. D. Hodo, Professor, B.B.A., M.S., Ph.D., University of Mississippi
Frank R. Keller, Visiting Professor, A.B., Stanford University; M.A.,
San Jose State College; M.B.A., Stanford Graduate School of
Business; D.B.A., Harvard Graduate School of Business
Dale B. Truett, Professor, B.A., Purdue University; M.A., Ph.D.,
The University of Texas at Austin
Paul N. Bartlett, Jr., Associate Professor, B.A., Lamar State Univer­
sity; M.A., Louisiana State University; J.D., The University of
Texas at Austin
Antonio Furino, Associate Professor, B.A., M.A., Ph.D., University
of Houston

Division of Management
A. W. Hunt, III, Professor, B.S., M.S., Baylor University; Ph.D., The
University of Texas at Austin
William D. Litzinger, Professor, B.S., New York University; M.B.A.,
University of Pennsylvania; D.B.A., University of Southern Cali­
fornia
Richard B. Wadsworth, Associate Professor, B.S., Texas A&M Uni­
versity; M.S., Ph.D., University of Arizona
Patricia L. Burr, Assistant Professor, B.B.A., North Texas State
University; M.A., Texas Woman's University; Ph.D., North Texas State
University
Charles D. Porterfield, Instructor, B.A., M.B.A., North Texas State
University

COLLEGE OF FINE AND APPLIED ARTS

Division of Art and Design
Leonard Lehrer, Professor, B.F.A., Philadelphia College of Art;
M.F.A., University of Pennsylvania
Jacinto Quirarte, Professor, B.A., M.A., San Francisco State College;
Ph.D., Universidad Nacional Autónoma de México

Division of Music
Gordon H. Lamb, Professor, B.M.E., Simpson College; M.M., Uni­
versity of Nebraska; Ph.D., University of Iowa
COLLEGE OF HUMANITIES AND SOCIAL SCIENCES

Division of English, Classics, and Philosophy
Alan E. Craven, Professor, A.B., M.A., Ph.D., University of Kansas
Curtis W. Hayes, Associate Professor, B.A., M.A., California State University at Long Beach; Ph.D., The University of Texas at Austin
John A. Stoler, Associate Professor, B.A., Ripon College; M.A., San Francisco State University; Ph.D., University of Arizona

Division of Foreign Languages
Ricardo F. Benavides, Professor, B.A., M.A., Universidad de Chile; Ph.D., Universidad Central de Madrid
Beverly J. Gibbs, Professor, B.A., M.A., University of Michigan at Ann Arbor; Ph.D., University of Wisconsin at Madison
Joseph Michel, Professor, B.A., De LaSalle College; M.A., Universidad Nacional Autónoma de Mexico; Ph.D., University of New Mexico
Tomás Rivera, Professor, B.S., M.Ed., Southwest Texas State University; M.A., Ph.D., University of Oklahoma
R. Joe Campbell, Associate Professor, B.S., Eastern Illinois University; M.A., Ph.D., University of Illinois
Frank Pino, Jr., Associate Professor, B.A., M.A., Arizona State University; Ph.D., Northwestern University

Division of Social Sciences
Richard E. W. Adams, Professor, B.A., University of New Mexico; M.A., Ph.D., Harvard University
Thomas C. Greaves, Professor, B.A., University of Washington; Ph.D., Cornell University
Félix D. Almaraz, Jr., Associate Professor, B.A., M.A., St. Mary's University; Ph.D., University of New Mexico
Thomas R. Hester, Assistant Professor, B.A., The University of Texas at Austin; Ph.D., University of California at Berkeley
Michael H. Jost, Assistant Professor, B.A., M.A., Arizona State University; Ph.D., Texas Christian University
Woodruff D. Smith, Assistant Professor, A.B., Harvard University; A.M., Ph.S., University of Chicago
María-Luisa Urdaneta, Assistant Professor, B.A., M.A., The University of Texas at Austin

COLLEGE OF MULTIDISCIPLINARY STUDIES

Division of Education
Robert T. Alciatore, Professor, A.B., Ph.L., Spring Hill College; S.T.L., St. Louis University; Ph.D., University of Minnesota
Kenneth H. Ashworth, Professor, B.A., The University of Texas at Austin; M.P.A., Syracuse University; Ph.D., The University of Texas at Austin

Thomas J. Cleaver, Professor, B.S., M.Ed., Prairie View A&M College; Ph.D., The University of Texas at Austin

Dewey D. Davis, Professor, B.S., Edinboro State College; M.Ed., Ph.D., The University of Texas at Austin

Milo E. Kearney, Professor, B.S., Kansas City Teachers College; M.A., University of Missouri at Kansas City; Ed.D., Columbia University Teachers College

Wayne W. Laughery, Professor, B.A., M.A., San Diego State College; Ed.D., Columbia University Teachers College

Elwood B. Traylor, Professor, A.B., Greenville College; M.A., Ph.D., Washington University at St. Louis

Paul H. Westmeyer, Professor, B.S., M.A., Ball State University; Ed.D., University of Illinois

Stephen W. Brown, Associate Professor, B.A., Northeast Louisiana University; M.Ed., Louisiana State University; Ed.D., Mississippi State University

Larrie E. Gale, Assistant Professor, B.A., M.A., San Diego State College; Ph.D., University of Utah

Simón L. Orta, Assistant Professor, B.S., Southwest Texas State University; M.S., University of Nebraska at Omaha; Ph.D., University of Nebraska at Lincoln

Berry N. Sutherland, Assistant Professor, B.S., The University of Texas at Austin; M.S., Ed.D., University of Houston

Kenneth W. Wunderlich, Assistant Professor, B.A., Ph.D., The University of Texas at Austin

Division of Bicultural-Bilingual Studies

Albar A. Peña, Professor, B.S., The University of Texas at Austin; M.A., Texas A&I University; Ph.D., The University of Texas at Austin

Peter A. Helfert, Associate Professor, B.A., University of Kansas; M.A., Columbia University Teachers College; Ph.D., The University of Texas at Austin

Division of Environmental Studies

Chia Shun Shih, Professor, B.S., Taiwan, C.K. University; M.S., Ph.D., The University of Texas at Austin

J. Leland Hepworth, Associate Professor, B.S., Utah State University; M.S., University of Idaho; Ph.D., Oklahoma State University
Richard R. Tangum, Assistant Professor, B.A., Texas Tech University; M.A., Virginia Polytechnic Institute; D.E.D., Texas A&M University

COLLEGE OF SCIENCES AND MATHEMATICS

Division of Allied Health
M. Neal Guentzel, Assistant Professor, B.A., M.A., Ph.D., The University of Texas at Austin

Division of Earth and Life Sciences
J. Homer Ferguson, Professor, B.S., Sul Ross State University; Ph.D., University of Arizona

Bernard P. Sagik, Professor, B.S., College of City of New York; M.S., Ph.D., University of Illinois

B. S. Thyagarajan, Professor, B.S., Loyola College, India; M.S., Ph.D., Presidency College, India

Theodore D. McKinney, Associate Professor, B.S., University of Arizona; M.S., Colorado State University; Ph.D., Virginia Polytechnic Institute

Helen V. Oujesky, Associate Professor, B.A., B.S., Texas Woman's University; M.A., Texas Christian University; Ph.D., Texas Woman's University

Paul H. Rodriguez, Assistant Professor, B.S., Creighton University; M.S., University of New Mexico; Ph.D., University of Rhode Island

Division of Mathematics and Systems Design
Stanley G. Wayment, Professor, B.S., Brigham Young University; M.S., University of Utah; M.S., Stanford University; Ph.D., University of Utah

William B. Gearhart, Associate Professor, B.S., M.S., Ph.D., Cornell University

Lucio Tavernini, Associate Professor, B.S., Heald Engineering College; M.S., University of Colorado; M.S., Ph.D., University of Wisconsin at Madison

David G. Tabor, Assistant Professor, B.S., The University of Texas at Arlington; M.S., Ph.D., New Mexico State University

Thomas H. Woteki, Instructor, B.S., M.S., Virginia Polytechnic Institute

Division of Physical Sciences
Charles Howard, Professor, B.S., Ph.D., University of Wisconsin at Madison

Richard F. Sweet, Associate Professor, B.S., Spring Hill College; M.A., Ph.D., The University of Texas at Austin
History

On June 5, 1969, the legislative act creating The University of Texas at San Antonio as a semi-autonomous 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 almost from its inception. The legislation further stipulated that The University be "one of the first class."

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

By the end of 1970, a master conceptual plan for the permanent campus was approved by the Board of Regents, and by June, 1971, final plans and specifications for the first seven permanent buildings of the campus were completed. After completion of site development work, construction contracts were awarded in May, 1972, calling for a completion date of May, 1974, subsequently revised because of construction delays to spring 1975.

In January, 1972, new, temporary administrative quarters were acquired in northwest San Antonio in the Koger Executive Center's San Jacinto Building at the intersection of Loop 410 and Babcock Road. Other UT San Antonio temporary facilities in the Koger Center include a classroom-office building (the Goliad Building), and additional office space in the Austin and Brazos Buildings. These facilities will be occupied by The University until completion of the permanent campus.

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

In further action by the Board of Regents in January, 1973, Dr. Peter T. Flawn, formerly Executive Vice President of The University of Texas at Austin, was named President of The University of Texas at San Antonio.

Graduate courses were offered for the first time in June, 1973. The projected opening of The University of Texas at San Antonio to undergraduate students is September, 1975.

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 Health Science Center (composed of the Medical School, the Dental School, the Graduate School of Biomedical Sciences, the School of Allied Health Sciences) and The University of Texas School of Nursing at San Antonio (a branch of the UT System School of Nursing).

For the added benefit of students, faculty, and community UT San Antonio is committed to cooperative planning with the institutions of higher education in San Antonio and the surrounding region. High priority is also given to cooperation between The University and the San Antonio community which includes mutual accessibility of library resources; provision of internships with local professions and businesses; continuing education institutes,
seminars, and special activities; and utilization of local, non-university personnel of special talents and abilities to enrich classroom instruction.

Providing intellectual, cultural, and economic opportunities to its multiple constituencies is perhaps the greatest challenge presented 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 vested 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.

Operational administration of the graduate (and undergraduate) programs of The University is the responsibility of the Deans of the five Colleges of The University. Instructional programs within the Colleges are organized by Division, headed by Division Directors.

Accreditation

On July 1, 1973, The University of Texas at San Antonio was classified by the Southern Association of Colleges and Universities as a Candidate for Accreditation. This classification was confirmed by the Southern Association at its annual meeting on December 13, 1973. Since 1971 UT San Antonio had been classified as a Correspondent by the Southern Association. With this new classification, as with the previous one, there is no difficulty in the transfer of credits from UT San Antonio to other colleges and universities. Under Southern Association policy, The University is eligible for full accreditation in the Association in the spring in which its first class is graduated.
Calendar

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

**Fall Semester, 1974**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>September 3-4</td>
<td>Tuesday-Wednesday. Registration.</td>
</tr>
<tr>
<td>September 5</td>
<td>Thursday. Classes begin.</td>
</tr>
<tr>
<td>September 10</td>
<td>Tuesday. Last day to drop a course without a grade. Last day to add a class. Last day for late registration.</td>
</tr>
<tr>
<td>October 1</td>
<td>Tuesday. Deadline for Fall, 1974, graduates to apply for candidacy.</td>
</tr>
<tr>
<td>October 2</td>
<td>Wednesday. Last day for students to withdraw and receive a partial refund of tuition and fees.</td>
</tr>
<tr>
<td>November 27</td>
<td>Wednesday. Last day to drop a course.</td>
</tr>
<tr>
<td>November 28-30</td>
<td>Thursday-Saturday. Thanksgiving Holidays.</td>
</tr>
<tr>
<td>December 18-20</td>
<td>Wednesday-Friday. Final Examinations.</td>
</tr>
<tr>
<td>December 20</td>
<td>Friday. Semester closes.</td>
</tr>
</tbody>
</table>

**Spring Semester, 1975**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 13-14</td>
<td>Monday-Tuesday. Registration.</td>
</tr>
<tr>
<td>January 15</td>
<td>Wednesday. Classes begin.</td>
</tr>
<tr>
<td>January 20</td>
<td>Monday. Last day to drop a course without a grade. Last day to add a class. Last day for late registration.</td>
</tr>
<tr>
<td>February 11</td>
<td>Tuesday. Last day for students to withdraw and receive a partial refund of tuition and fees.</td>
</tr>
<tr>
<td>February 13</td>
<td>Thursday. Last day for Spring, 1975, graduates to apply for candidacy.</td>
</tr>
<tr>
<td>March 27-29</td>
<td>Thursday-Saturday. Spring recess.</td>
</tr>
<tr>
<td>April 9</td>
<td>Wednesday. Last day to drop a course.</td>
</tr>
<tr>
<td>April 30-May 2</td>
<td>Wednesday-Friday. Final Examinations.</td>
</tr>
<tr>
<td>May 2</td>
<td>Friday. Semester closes.</td>
</tr>
</tbody>
</table>
### Summer Session, 1975

#### First Session

<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>June 2</td>
<td>Monday</td>
<td>Registration</td>
</tr>
<tr>
<td>June 3</td>
<td>Tuesday</td>
<td>Classes begin</td>
</tr>
<tr>
<td>June 4</td>
<td>Wednesday</td>
<td>Last day to drop a course without a grade. Last day to add a class. Last day of late registration.</td>
</tr>
<tr>
<td>June 10</td>
<td>Tuesday</td>
<td>Last day for students to withdraw and receive a partial refund of tuition and fees.</td>
</tr>
<tr>
<td>June 12</td>
<td>Thursday</td>
<td>Deadline for Summer I, 1975, graduates to apply for candidacy.</td>
</tr>
<tr>
<td>June 26</td>
<td>Thursday</td>
<td>Last day to drop a course.</td>
</tr>
<tr>
<td>July 4</td>
<td>Friday</td>
<td>Holiday</td>
</tr>
<tr>
<td>July 10-11</td>
<td>Thursday-Friday</td>
<td>Final Examinations.</td>
</tr>
<tr>
<td>July 11</td>
<td>Friday</td>
<td>End of first summer session</td>
</tr>
</tbody>
</table>

#### Second Session

<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 14</td>
<td>Monday</td>
<td>Registration</td>
</tr>
<tr>
<td>July 15</td>
<td>Tuesday</td>
<td>Classes begin</td>
</tr>
<tr>
<td>July 16</td>
<td>Wednesday</td>
<td>Last day to drop a course without a grade. Last day to add a class. Last day of late registration.</td>
</tr>
<tr>
<td>July 22</td>
<td>Tuesday</td>
<td>Last day for students to withdraw and receive a partial refund of tuition and fees.</td>
</tr>
<tr>
<td>July 24</td>
<td>Thursday</td>
<td>Deadline for Summer II, 1975, graduates to apply for candidacy.</td>
</tr>
<tr>
<td>July 31</td>
<td>Thursday</td>
<td>Last day to drop a course.</td>
</tr>
<tr>
<td>August 14-15</td>
<td>Thursday-Friday</td>
<td>Final Examinations.</td>
</tr>
<tr>
<td>August 15</td>
<td>Friday</td>
<td>End of second summer session</td>
</tr>
</tbody>
</table>
II. Tuition, Fees, Charges, Penalties and Deposits
Introduction

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

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

Tuition

Pursuant to House Bill 43, 62nd Legislature, tuition for all students registered at UT San Antonio will be as follows:

Resident 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 per six weeks summer session.

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

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

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

*All tuition charges and fees are subject to change without notice.
$12.00 for residents of Texas and $50.00 for nonresidents (U.S. citizens and international students).

Registration in Absentia Fee

A student who completes all requirements for a degree, including submission of the thesis, to the Dean's Office, too late for the semester deadline but before the first day of registration for the following semester may register in absentia (i.e., for no organized or individual course work) for the following semester or summer session for the sole purpose of receiving the degree in that semester or summer session. The in absentia registration fee is $12.00 for residents of Texas and $50.00 for nonresidents (U.S. citizens and international students).

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 nonresident will be made in accordance with Chapter 54, Subtitle A, Title 3 of the Texas Education Code.* If the applicant is in any doubt about his status, he should consult the Director of Admissions and Registrar prior to registration. Students who are legally classified as nonresidents of Texas must be prepared to pay the required tuition at the time of registration. There can be no change in residence classification except under the express authorization of the Registrar.

Penalty for Payment of Tuition Under Incorrect Residence Classification

Responsibility for registering under the proper residence classification rests upon 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.

*A detailed description of the residence regulations is offered as Appendix A of this catalog.
cation. 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 a first aid room and limited emergency medical care, initial issuance of a student identification card, free or reduced admission fees to special lecture series, cultural events, film series and other special activities and/or services which may be provided for students.

Refunds of student service fees to students withdrawing are made on the same basis as refunds of tuition.

**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.

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

**Late Registration Fee**

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

**Bad Check Charge**

A charge of $5.00 will be assessed for each returned check to offset the cost of handling dishonored checks.
Replacement of Student Identification Card Charge

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

Transcript Charge

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

Laboratory Fee

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

Charges for Auditing Courses

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

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

Parking Fees

There is no parking fee required of students at the temporary UT San Antonio site located in the Koger Executive Center. Students who enroll in classes that are held at The University of Texas Health Science Center are required to pay the then current student parking fee in effect on that campus. Fees for parking on the new UT San Antonio campus will be established at a later date.

Duplicate Fee Receipt

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

General Property Deposit

Every student must make a general property deposit of $10.00 at the time of initial registration to protect The University from losses such as property loss or damage or breakage or violation of rules in any university library or laboratory, failure to return keys furnished by The University, or for damage or loss of any other university property. The records will be reviewed from time to time, and if charges have been made against the deposit, the student may be required to bring the deposit up to $10.00. The deposit will be refunded upon request, less outstanding charges, only when the student officially withdraws from school or graduates. A general property deposit which remains without call for refund for a period of four years from the date of last attendance at The University shall be forfeited, and the deposit shall become operative to the permanent use and purpose of Student Scholarships.

Exemption from Tuition and Fees

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

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

1. He has resided in Texas for a period of not less than twelve (12) months prior to the date of registration.
2. He served in the armed forces or in certain auxiliary services in World War I, World War II, the Korean conflict, or the Cold War. If service was in the Cold War, he must have served on active military duty (other than for training) for more than 180 days.

3. He was a *bona fide* legal resident of the state at the time of entering service.

4. He was honorably discharged from service (those who served in World War II and who were discharged because of being over the age of thirty-eight or because of a personal request are not eligible for this exemption).

5. He is not eligible for education benefits provided for veterans by the United States Government.

**Benefits for children of Texas veterans.** Exemption from payment of tuition and certain fees 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 and the Texas Air National Guard killed since January 1, 1946, while on active duty.

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

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

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

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

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

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

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

In a long session, upon presentation to the Registrar of an official fee receipt showing payment of the fee and surrender of the student identification card, any student withdrawing officially a) after the last official day for registration but during the first week of classes of a semester will receive a refund of 70 percent of the applicable portion of the fee; 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 will be made for courses dropped during the first twelve class days if the student paid more than the minimum required
and has dropped below the total number of hours for which he or she originally was registered.

Tuition and applicable fees for added courses must be paid regardless of the date added. No refunds will be made until 15 days have elapsed from the time fees were paid unless the fees were paid in cash or by money order. Refund checks will be mailed to the student's permanent address 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 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 and the Rules and Regulations of the Board of Regents and The University.

Student Health Services

The University will provide no on-campus medical care while located at the Koger Executive Center at Babcock Road and Loop 410. A first aid room, however, is located in the Goliad Building, Room 134, 4203 Woodcock, which will be used solely as a holding facility and pick up point until arrangements can be made to transport a student to his home or to a doctor's office.

In case of accident or illness, please call the office of the Dean of Students, 732-2141, extension 301 or 302, so that the first aid room can be made available. If the Dean of Students cannot be reached call the University Police Chief, extension 231, or the Library. No regular attendant will be on duty at the first aid room.

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 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.

Financial Aids

Financial Aid provides qualified students an opportunity for higher education which otherwise might not be available to them. Such financial aid is available under certain circumstances to students from low to moderate income families and also to students from families with above average incomes. Family assets, the number of family dependents, and income must be analyzed in order to determine student eligibility and to calculate the amount of assistance for which a student will qualify. An analysis is processed by the College Scholarship Service from the Parents' Confidential Statement (for dependent students), or the Student's Financial Statement (for independent students). These forms may be obtained from high school counselors or from the Student Financial Aid Officer at any college or university. Since the analysis takes about six weeks to be returned to the institution where the student plans to apply for assistance, it is suggested that the student file the appropriate form early in the semester prior to the one in which he or she plans to enroll.

There are several student aid programs available at UT San Antonio, all designed to meet the many varied needs of students. Some of these are the College Work Study Program, the Hinson-Hazlewood College Student Loan Program, the State Scholarship Program for needy students, and the Federally Insured Loan Program. Eligible veterans are also encouraged to inquire about their veterans benefits.

Since these programs contain different eligibility requirements, it is necessary for a student to seek guidance from his or her high school counselor or from the college or university financial aid representative. The financial aid officer, because of his understanding of the wide range of programs and the variation of in-
dividual needs, is the person best able to advise students on fi-
nancial assistance.

University students who are currently enrolled at another institu-
tion and receiving financial aid at that school and who would like
to enroll at UT San Antonio and continue receiving aid should
contact The University's Student Financial Aid Office. Students
may call 732-2141, extension 303 or 304, or they may write to
the Office of Student Financial Aid and Placement, 4242 Piedras
Drive East, Suite 250, San Antonio, Texas 78284.

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 condi-
tions, etc. Other services are also available to assist the handi-
capped student to become employable. Application for such
service should be made at the Texas Rehabilitation Commission,
102 Rilla Vista, San Antonio, Texas.
IV. Admission Requirements
Admission to a Graduate Degree Program

In order to be eligible for admission to a graduate degree program at The University of Texas at San Antonio 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) satisfy the grade point requirements specified below; (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; (5) submit scores from the Graduate Record Examination—applicants for the M.B.A. program are required to submit scores from the Admission Test for Graduate Study in Business in lieu of the GRE; and (6) be in good standing at the last institution attended.

An applicant with a "B" (3.0) average on all work of upper-division (junior and senior) and graduate level previously taken will be considered to have satisfied the minimum grade point requirements for admission to a graduate program. Some applicants with less than a "B" average may be accepted upon special recommendation of the academic Deans. In such cases, standardized or University examinations may be required and admission may be with conditions.

Students who desire to work toward a graduate degree in an area in which their undergraduate training is insufficient to permit full admission may be admitted with the understanding that they must undertake course work and other study to make up the deficiencies noted by the Graduate Advisor, and that such make-up work may be in addition to the regular degree requirements. When a

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1Some graduate degree programs specify additional admission requirements. Refer to the specific degree description for any admission requirements in addition to the university-wide requirements listed here.

2An individual review of the applicant's background will be made by the Dean in whose college the program is located to ensure adequate preparation for graduate study.

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.
student with less than the minimum grade point average is admitted on a conditional basis, special conditions may be assigned regarding the number of semester hours to be taken and a specific grade point average to be maintained. If these conditions are not met, the student may be barred from continuation in the graduate program.

Admission to a Teacher Certification Program*

In order to be eligible for admission to a teacher certification program 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) be admitted to The University and have the approval of the Division of Education and other Divisions as appropriate to the certification program sought; (3) make application for a specific certificate program; (4) be a U.S. citizen, or have evidence of having made application for citizenship; (5) hold a valid teacher's certificate in Texas; (6) have a grade point average of 3.0 on a four point scale on upper division and graduate work or approval of the Office of Teacher Certification and Placement; (7) submit scores from the Graduate Record Examination (Aptitude Test)—applicants who will pursue a certificate program for teaching business at the secondary level may submit scores from the Admission Test for Graduate Study in Business in lieu of the GRE; and (8) be in good standing at the last institution attended.

Students applying for admission to the teacher certification programs at the graduate level must apply for admission to The University through the Admissions Office and for admission to the certificate program through the Office of Teacher Certification and Placement.

Admission as a Post-Baccalaureate Student

Students who do not wish to enter a graduate or certificate program or who are ineligible for graduate admission may be admitted as special students with the classification "post-baccalaureate." Post-baccalaureate students are eligible to take graduate courses

*See Appendix B for a summary of Professional Certificate Programs and procedures and requirements relative to certification.
for which they have the necessary prerequisites, provided they have the approval of the instructors and Deans of the Colleges in which the courses are offered. Credit earned as a post-baccalaureate student can be applied toward a Master's degree or certificate only when approved by the Graduate Advisor and Dean of the College offering the degree program.

Students seeking admission as post-baccalaureate students are not required to meet the requirements for admission to a graduate degree or certificate program, but must hold a baccalaureate degree from an accredited college or university and be in good standing at the last institution attended. Post-baccalaureate students who later wish to enter a graduate degree program must meet all requirements for admission to a graduate or certificate program and make application to the Admissions Office.

**Admission as a Transient Student**

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 at The University of Texas at San Antonio may apply for admission as a transient student. A degree statement and a statement of standing from the institution last attended will be required to support the application for admission.

Transient students may register for any courses for which they have the necessary prerequisites and in which space is available. Students registered in this capacity cannot enroll in subsequent terms unless they have been admitted as regular students. To be admitted as a regular student, the transient student must apply for regular student status through the Admissions Office and meet The University's admission requirements.

**Admission of International Students**

The following admission requirements pertain to all applicants for admission who are not citizens of the United States and are 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 admission requirements for all graduate students.
2. 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.

3. Submit proof of adequate hospitalization insurance.

4. Submit scores from the Test of English as a Foreign Language (TOEFL).* Subsequent English tests may be required upon arrival at The University if a student's performance indicates proficiency in English is unsatisfactory. TOEFL scores are not required for students from countries where the primary language is English, or from graduates of accredited United States high schools or colleges and universities.

5. International students on a student visa will not be admitted with post-baccalaureate status; to be admitted to The University of Texas at San Antonio these students must be seeking a graduate degree.

The above admission criteria serve as guidelines for admission for international students. All applicants will have their credentials examined on an individual basis by the Graduate Advisor for their degree programs with admission being granted only to those who show promise of success in university study in the United States and particularly at The University of Texas at San Antonio.

Application Dates

Students applying for admission as graduate, certificate, or post-baccalaureate students may apply for admission according to the schedule below. Application forms and instructions will be available from the Admissions Office beginning with the "earliest date to apply" indicated below. The completed application form and

*Students 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.
all required supporting documents must be on file with the Admissions Office no later than the "last day to apply" shown below.

<table>
<thead>
<tr>
<th>Term</th>
<th>Earliest Date to Apply</th>
<th>Last Day to Apply</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td>February 15</td>
<td>August 15</td>
</tr>
<tr>
<td>Spring Semester</td>
<td>August 1</td>
<td>December 31</td>
</tr>
<tr>
<td>Summer Session I</td>
<td>January 15</td>
<td>May 15</td>
</tr>
<tr>
<td>Summer Session II</td>
<td>January 15</td>
<td>June 30</td>
</tr>
</tbody>
</table>

**Admission Procedures**

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

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

**Re-admission Policies and Procedures**

Students, other than transient students, who previously have been admitted and registered at The University of Texas at San Antonio as resident students and who were enrolled within 12 months prior to the beginning of any semester or summer session and who are scholastically eligible to return may re-enroll without applying for re-admission. Former students who have not been enrolled within 12 months prior to the anticipated date of return must submit an application for re-admission. The application form is available in 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 will depend on the academic status at the conclu-
sion of the student's last UT San Antonio enrollment and any subsequent college or university work attempted.

Absence from The University and Filing Residence Questionnaire

Every student returning to The University after an absence of more than one semester is required to file a residence questionnaire on a form furnished by the Registrar.
V. General Academic Regulations
Registration

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

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

Student Classification System

Graduate: A student who is enrolled for courses to be applied toward a graduate degree and who has been admitted to the graduate degree program.

Certificate: A student who has been admitted to The University with approval of the Division of Education and other Divisions as appropriate to the certificate sought and who has been admitted to a certification program through the Office of Teacher Certification and Placement.

Post-Baccalaureate: A student who has at least a baccalaureate degree, but who is not enrolled in a graduate degree program or in a graduate level certification program.

Transient: 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 at UT San Antonio.

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

A full-time graduate student (degree, certificate, or post-bacca-

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

The policies, regulations, and procedures stated in this catalog are subject to change without prior notice, if necessary, so that university policies are consistent with the policies of the Board of Regents of The University of Texas System.
laureate) is one enrolled in nine or more semester hours of courses during a regular semester or in three or more hours of courses during a summer session.

A part-time graduate student (degree, certificate, or post-baccalaureate) is one enrolled in 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.

Late Registration

Late registration permits students to register during the first four class days of a regular semester or during the first two class days of a summer session. Students who register late will be charged an additional $5 the first day of late registration and an additional $2.50 per day thereafter; this fee is non-refundable. Instructions for late registration are available at the Registrar's Office. Students will not be permitted to register after the close of late registration.

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

Adding and Dropping Courses

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

After registration, during the first four days of any semester, or
the first two class days of 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.\footnote{During this period a post-baccalaureate student should seek approval of the course instructor and Dean of the College in which the course is located. A certificate only student should seek approval of the course instructor and the Assistant Dean for Certification and Teacher Placement.} Between the fourth and twelfth class day of any semester, or the second and fourth class day of any summer term, the additional approval of the Dean of the College in which the student is registered is required.\footnote{For a post-baccalaureate student and a certificate only student, additional approval should be sought of the Dean of the College in which the course is located.} After the twelfth class day of any semester or after the fourth class day of any summer term, students may \textit{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 fourth calendar day of a regular semester or after the second calendar day in a summer session, it is his responsibility to initiate and complete procedures for obtaining an approved withdrawal from the course. The forms for this purpose are available 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 fourth calendar day in a regular semester or after the second calendar day in a summer session will be assigned a grade of "W" if he is passing in the course at the time of withdrawal or a grade of "F" if he is failing the course at the time of withdrawal. A student who drops a course without filing the required form with the Registrar's Office will be assigned a grade of "F" in the course. Students may not withdraw from a course later than three weeks prior to the beginning of final examinations for the semester and not later than two weeks prior to the beginning of final examinations for the summer sessions.

**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. The verifica-
tion notice is sent to the local address. 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.

Auditing of Courses

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

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

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

Repeating Courses

Only those courses listed in the catalog in which the course de-
scription specifically indicates "may be repeated for credit" may
be repeated with both units and grade points earned being counted.
Neither post-baccalaureate, graduate, nor certificate students may
repeat courses for the purpose of raising a grade.

Class Attendance Policy

Regular attendance at all meetings of the courses for which a
student is registered is expected. It is the instructor's responsibility
to set and to communicate to students the attendance require-
ments for each course. 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."

A student who ceases to attend a class before he officially drops the course will be considered absent from the class and will be subject to the penalties for excessive absence.

**Change of Major or Degree**

A student who wishes to change his 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.

**Withdrawal from The University**

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

**Cancellation of Enrollment**

Any student who fails to fulfill admission or matriculation require-
ments or who otherwise fails to adhere to academic regulations is subject to immediate administrative action which may result in his being placed on probation or having his 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.

**Academic Dismissal**

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

Should a graduate, certificate, or post-baccalaureate 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 warned by the Office of the Registrar that continuance is in jeopardy. At the end of the next semester or summer session in which he or she is registered, the student must have attained a 3.0 grade point average in all course work taken at The University or be dismissed. During the semester in which the student has less than a 3.0 average, if he or she drops any courses or withdraws, automatic dismissal from The University will result. A graduate, certificate, or post-baccalaureate student whose grade point average for any term is less than 2.0 ("C") will be dismissed automatically from The University.

Graduate students who are dismissed from a graduate program may petition the President's Office for re-admission. In such cases, recommendations from the student's Graduate Advisor and academic Dean will be required.

**Course Numbering System**

All courses offered by The University of Texas at San Antonio are identified by a three-digit number. The first digit indicates the course level; courses designed for graduate students are numbered 500 through 699. The second digit indicates the semester hours of credit for the courses. When the second digit is 1, 2, 3, 4 or 5, the credit for the course is the corresponding number; when the second digit is 6, 7, 8 or 9, three semester hours of credit will be awarded. When the second digit is 0, the course has variable credit.
Sequenced courses within a discipline and at the same level use the letter “A” to indicate the first half of the course and the letter “B” to indicate the second half of the course. When the sequencing extends beyond two terms, letters are used to indicate the order of the courses, i.e., “A,” “B,” “C,” “D,” and “E.” The course description for each course indicates the letters used, if any.

If the order in which sequenced courses must be taken is “A” and then “B” (etc.) no statement is made. If the order is not important, a statement to this effect is made in the course description. A student may be granted credit for each course in a series without completing the entire sequence.

Following the course title, a pair of numbers separated by a hyphen is listed to indicate the course hours per week required; the first number is the number of hours of lecture, the second is the number of hours of laboratory.

**Prerequisites**

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

**Grading System**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Explanation</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Outstanding</td>
<td>4</td>
</tr>
<tr>
<td>B</td>
<td>Above Average</td>
<td>3</td>
</tr>
<tr>
<td>C</td>
<td>Average</td>
<td>2</td>
</tr>
<tr>
<td>D</td>
<td>Below Average, but passing</td>
<td>1</td>
</tr>
<tr>
<td>F</td>
<td>Failure</td>
<td>0</td>
</tr>
<tr>
<td>IN</td>
<td>Incomplete</td>
<td>0</td>
</tr>
<tr>
<td>W</td>
<td>Withdrawal</td>
<td>0</td>
</tr>
<tr>
<td>NR</td>
<td>No Report</td>
<td>0</td>
</tr>
</tbody>
</table>

**Grade Point Average**

The Grade Point Average (G.P.A.) is determined by dividing the number of grade points earned by the number of semester hours of credit attempted.
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.

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."

Grades of "Incomplete"

The grade "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 will not be assigned when a definite grade can be given for the work done. The "Incomplete" grade will be given to indicate that some part of the work of a student in the course has, for good reason, not been completed, while the rest has been satisfactorily completed. The student must have been in attendance at least three-fourths of the term.

To be made up, incomplete work must be completed before the end of the term in which the student next enrolls. Not more than one year may elapse from the time that the "Incomplete" grade is received until the work is completed. If the work is not completed within this time, the "Incomplete" will remain on the student's record, and credit may be earned only when the student re-enrolls in the course and completes the entire course satisfactorily.

The time limit does not apply to graduate level courses of an individual study nature, such as research, thesis, or dissertation, except that an "Incomplete" cannot be removed after a degree is awarded. The time limit does apply to all other graduate courses in which class work is ordinarily completed in the process of the regular term. The time limit for removing an "Incomplete" grade in Independent Study (600) and Special Problems (610, 620, 630) courses is one year from the date of enrollment in the course.
Whenever a grade of "Incomplete" is assigned, the instructor is required to file a "Requirements for Removal of Incomplete" report with the Dean of the College in which the course is offered.

"No Report"

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

Grade Reports

The Registrar's Office mails final grades as soon as they are compiled after the close of each semester and the summer session. The grade report reflects the grade assigned by the instructor on his final grade sheet; any subsequent changes are not included. Grades are mailed to the local 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 "Grades of Incomplete" in this catalog. A grade of "Incomplete" may be changed by the instructor, within the time limits, by completing a "Removal of Incomplete" form and filing the form with the Registrar's Office.

Any other change of grade must be initiated by the instructor on the required form available in the offices of the College Deans. Such petitions require the approval of the Vice President for Academic Affairs before the Registrar will make the change on the student's record. It is the policy to approve grade changes only in the most extraordinary circumstances and where justification of the reason can be substantiated. No change of grade will be considered after six months from the date the original grade was assigned.

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 will be charged for each copy of the transcript. Transcripts from other institutions submitted to UT San Antonio will 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.

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

Release of Transcripts and Academic Records

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

1. In the case of an unmarried minor student, upon the written request of the student's parents or legal guardian, and upon receipt of payment of the appropriate fee.

2. In response to a court order.

3. To another institution of higher education or an accreditation agency upon request.

Change of Name or Address

Currently enrolled students who have changed their names or addresses should notify the Registrar's Office by completing the appropriate form. Official notification of change of address is necessary for proper identification of students' records and for accurate mailing of correspondence, grade reports, transcripts and information pertaining to graduation requirements.
VI. Master’s Degree Regulations
University-Wide 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 perform at the graduate level, and that such work may be in addition to the regular degree requirements.

Entering Examinations

The Dean of the College in which students' 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. Students lacking the required level of English proficiency will be denied candidacy.

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 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. 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 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 Courses**
Courses completed by correspondence 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 doctoral degree, when it is offered, provided it is acceptable to the candidate's Supervising Committee and Dean.

**Additional Credit and Grade Regulations**
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 to a Master's degree; no courses below upper-division level may be applied to the degree.

No courses in which grades of "D" were earned may be applied to a graduate degree.

To be in good standing a student seeking a Master's degree must maintain a 3.0 ("B") grade point average for all courses taken in a given term and in order to be awarded the degree must have achieved an over-all 3.0 average for all credit which is counted as part of the degree program.
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 deadline for filing an Application for Admission to Candidacy is no later than the first 30 calendar days of the student's final semester or the first 10 calendar days of the final summer session.

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 will be recognized as a candidate only when he has satisfied the scholarship requirements and when his application and course of study have been approved by the Graduate Advisor and Dean. Admission to Candidacy is a degree requirement.

Final Examination

A candidate for a Master's degree must, in addition to all other requirements, pass a final 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. Final examinations will be 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.

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) 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 semesters) 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 should in consultation with his Graduate Advisor select the option most suitable to his needs. Should a student elect to change options after being admitted to candidacy, he 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 Advisor, who is also Chairman of the Thesis Committee. The Thesis Committee consists of the advisor and two additional members of the Graduate Faculty appointed by the Dean. The student is expected to work closely with his Thesis Advisor in selecting his thesis topic and in completing other details of his study.

2. Submit a preliminary draft for approval by the Thesis Advisor 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. Upon concurrence of the Thesis Committee the draft may be approved. 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 Advisor 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 Advisor and members of the Thesis Committee.

6. File the unbound original copy 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. This copy will be transmitted by the Dean to the Library, where it will be bound and retained.

7. File an additional bound reproduction of the thesis with the Dean to be retained in that Office. It is customary that copies of the thesis be presented to the Thesis Advisor and members of the Thesis Committee. Arrangements and expenses for binding of all copies, except the original, 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 re-
quired 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.

**Maintaining Registration**

Degree candidates are expected to maintain registration until all degree requirements are satisfied. By failing to register for at least one semester hour 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, are receiving guidance toward the thesis, or are expecting to graduate.

**Registration in Absentia**

Registration *in absentia* (i.e., registration for no organized or individual course work) constitutes an arrangement for the candidate who has finished the last requirements for a degree, including submission of the thesis, too late for the semester deadline but before the first registration day of the following semester. Such a candidate may, for a nominal fee, register in the next following semester or summer session for the sole purpose of receiving the degree in that semester or summer session.

**Time Limits and Catalog of Graduation**

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 credits may be accepted upon approval of the candidate's Graduate Advisor and Dean; in all cases, a comprehensive examination will be required as a condition for validating credit.

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 his 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.

**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 in which they intend to graduate.

If a student does not graduate at the close of the term for which he has applied, he must reapply for the degree.

**Graduation Dates**

Degrees are conferred only at the end of each semester and at the end of each 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 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 1974-75
SUMMARY OF GRADUATE DEGREE PROGRAMS
AND SUPPORT AREAS FOR 1974-75

The following graduate degree programs will be available during 1974-75.* The detailed requirements for each degree will be found on the following pages.

Master of Business Administration Degree

Master of Arts Degree

Bicultural-Bilingual Studies
Concentrations: (1) Bicultural Studies
(2) Bicultural-Bilingual Teacher Education

Education
Concentrations: (1) Cultural Foundations of Education
(2) Curriculum and Instruction
(3) Early Childhood and Elementary Education
(4) Educational Management
(5) Institutions of Higher Education

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

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

Master of Fine Arts Degree

Art

Master of Science Degree

Biology

Environmental Management
Concentration: (1) Management of Natural Resources

Mathematics and Systems Design

*Course offerings in graduate degree programs may be postponed if enrollments or resource and space limitations do not warrant scheduling or continuation of a particular course.
Additional graduate courses will be available in the following support areas during 1974-75.*

Anthropology
Bilingual Medical Interpreting
Earth Science
Educational Psychology
English
English as a Second Language
Foreign Languages
Geography
History
History of Art and Criticism
Music
Physical Science
Political Science
Sociology

*Course offerings in graduate support areas may be postponed 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
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 utilizing 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

The Master of Business Administration Degree 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 but will be required to complete a series of foundation courses as a condition of admission. The foundation courses are in addition to the degree requirements.

Special Admission Requirements. Applicants for admission to the M.B.A. program will be required to meet the university-wide admission requirements, except that the minimum of 18 semester hours in business is waived because of the dual program. In addition, all applicants must take the Admission Test for Graduate Study in Business* (ATGSB) and submit results to the Director of Admissions well in advance of the desired date of admission. The score of the ATGSB will be considered in determining the applicant's eligibility for admission to the program.

Some or all of the following common body of knowledge may be required as conditions for students with a non-business background, or for other applicants whose previous training is insufficient to permit full admission to the program:

- ACCT 530 The Theory, Method and Use of Accounting
- ACCT 531 Costs and Budgets
- ACCT 535 Management Information Systems
- ECON 530 Theories of Economics Survey
- FIN 531 Business Finance
- MGMT 530 Organization and Management Theory
- MGMT 533 Legal Environment for Business
- MATH 537 Applied Statistics
- MRKT 530 Foundations of Marketing

Degree Requirements. All candidates for the M.B.A. degree will, in addition to the University-Wide Requirements for Master's

*Applications for the ATGSB, or information on the test, may be obtained from the Educational Testing Service, Princeton, New Jersey 08540.
Degree, be required to complete successfully the following core of 21 semester hours.

- **ACCT 561** Accounting Analysis for Decision-Making
- **ECON 561** Business Economics
- **FIN 561** Financial Management
- **MGMT 561** Quantitative Methods in Business
- **MGMT 565** Business Research Methods
- **MGMT 671** Management Policy, Problems and Trends
- **MRKT 561** Marketing Management

Students selecting *Option I* (a total of 36 semester hours including a thesis is required) will, in addition, be required to complete successfully 9 semester hours of credit in elective courses approved by the Graduate Advisor and Dean and 6 semester hours of credit in thesis, BUS 691. Students selecting *Option II* (36 semester hours without a thesis are required) will be required to successfully complete 15 semester hours of credit in electives approved by the Graduate Advisor and Dean.

**COURSE DESCRIPTIONS**

**ACCOUNTING (ACCT)**

530 **THE THEORY, METHOD AND USE OF ACCOUNTING**
(3-0) 3 hours credit.
An introductory course for M.B.A. candidates without previous work in accounting. Emphasis is on accounting as a tool to communicate financial information, for planning, analyzing and controlling business enterprises. Methods and procedures are covered.

531 **COSTS AND BUDGETS**
(3-0) 3 hours credit.
Theory and techniques of cost accounting for product costing, control, and decision-making. Consideration of prime costs, overhead, budgeting, and transfer pricing.

535 **MANAGEMENT INFORMATION SYSTEMS**
(3-0) 3 hours credit.
A course in programming and computer systems for graduate students who have not had undergraduate training in this area.

561 **ACCOUNTING ANALYSIS FOR DECISION-MAKING**
(3-0) 3 hours credit. Prerequisite: ACCT 530 or the equivalent.
The study of accounting and its uses by management in the decision-making process.

562 **MANAGERIAL ACCOUNTING**
(3-0) 3 hours credit. Prerequisite: ACCT 561 or the equivalent.
A detailed analysis of financial statements and corporate accounts.
Accumulation of cost information and interpreting of the results as an aid to managerial decisions.

571 ADVANCED PROBLEMS IN AUDITING
(3-0) 3 hours credit. Prerequisite: Undergraduate course in auditing or consent of instructor.
A study of current literatures on auditing standards, reliability of evidential matter, special reports, reports of not-for-profit organizations and reports to regulatory agencies.

600 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.
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.

610, 620, 630 SPECIAL PROBLEMS
1 to 3 hours credit. May be repeated, but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

635 CURRENT ACCOUNTING THEORY
(3-0) 3 hours credit. Prerequisites: ACCT 562 and consent of instructor.
Current accounting literature; accounting bulletins of the American Institute of Certified Public Accountants, Securities Exchange Commission accounting releases and other relevant material.

COURSE DESCRIPTIONS

BUSINESS

691 MASTER'S THESIS
(3-0) 3 hours credit. May be repeated for credit, but not more than 6 hours will apply to the Master's degree. Permission of the instructor is required. Enrollment in BUS 691 is required each term the thesis is in progress.

COURSE DESCRIPTIONS

ECONOMICS

530 THEORIES OF ECONOMICS SURVEY
(3-0) 3 hours credit. An intensive one semester course in theories of economics for stu-
dents entering the M.B.A. program who have not had an adequate undergraduate foundation in economics. Micro as well as macro economic concepts are studied. Specific areas covered are: the price system as it functions under competition, monopoly and partial monopoly; collective bargaining, international trade; national income, measurement and determination; business cycles; money and banking, monetary policy; fiscal policy and economic development.

561 BUSINESS ECONOMICS
(3-0) 3 hours credit. Prerequisite: ECON 530 or the equivalent. The application of price theory to problems of the firm. Actual case studies will be utilized.

571 ECONOMICS OF HUMAN RESOURCES
(3-0) 3 hours credit. Prerequisite: ECON 530 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.

575 URBAN ECONOMICS
(3-0) 3 hours credit. 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.

581 INTERNATIONAL BUSINESS ECONOMICS
(3-0) 3 hours credit. Prerequisite: ECON 530 or the equivalent. The use of economic concepts in the solution of international business problems. Actual cases will be utilized to allow the student an opportunity to apply the tools of economic theory.

591 ANTITRUST—LEGAL AND ECONOMIC ANALYSIS
(3-0) 3 hours credit. Prerequisite: ECON 530. An analysis of promoting and protecting competition through law. Antitrust implications of the managerial process are to be examined and evaluated.

600 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. 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.

610, 620, 630 SPECIAL PROBLEMS
1 to 3 hours credit. May be repeated, but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be
completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

632 MANPOWER POLICY
(3-0) 3 hours credit.
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.

634 ECONOMICS OF POVERTY
(3-0) 3 hours credit.
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.

636 LABOR ORGANIZATIONS
(3-0) 3 hours credit.
A study of the origins of organized labor movements and their evolution over time. Management problems facing organized labor as they relate to society such as collective bargaining, economic security, leisure and technological change are examined.

COURSE DESCRIPTIONS

FINANCE

531 BUSINESS FINANCE
(3-0) 3 hours credit.
A study of the financial dimensions of a business enterprise. Areas covered are business financial organizational structures; financing of business enterprises; capitalization; refunding and reorganization.

561 FINANCIAL MANAGEMENT
(3-0) 3 hours credit. Prerequisite: FIN 531 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.

571 FINANCIAL INSTITUTIONS
(3-0) 3 hours credit.
The "money market" and the development, organization, and operation of the supporting financial institutions.

581 CAPITAL FORMATION AND BUDGETING
(3-0) 3 hours credit.
Analysis of the cost-of-capital concepts and capital budgeting as these are associated with the micro and macro approach to finance.

591 INVESTMENT PROBLEMS
(3-0) 3 hours credit.
Measuring and evaluating risk possibilities as they relate to public and private debt, government regulation of securities markets and taxation.
600 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.
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.

610, 620, 630 SPECIAL PROBLEMS
1 to 3 hours credit.
May be repeated, but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

663 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.

COURSE DESCRIPTIONS

MANAGEMENT
(MGMT)

530 ORGANIZATION AND MANAGEMENT THEORY
(3-0) 3 hours credit.
Examines the process, empirical, behavioral and quantitative theories of management and organization. Develops a synthesis of these and other evolving theories.

533 LEGAL ENVIRONMENT FOR BUSINESS
(3-0) 3 hours credit.
An intensive course for students entering the graduate program without a basic undergraduate course in business law. Areas covered are the law of contracts; negotiable instruments, sales, insurance, bankruptcy, agencies, partnerships and corporations.

537 FOUNDATIONS OF QUANTITATIVE METHODS FOR BUSINESS
(3-0) 3 hours credit.
A course covering business and economics statistics for students who have not had undergraduate training in this area. Quantitative tools used in the management decision process are studied.

561 QUANTITATIVE METHODS IN BUSINESS
(3-0) 3 hours credit. Prerequisite: MGMT 537 or the equivalent.
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.

562 SIMULATION ANALYSIS OF BUSINESS SYSTEMS
(3-0) 3 hours credit. Prerequisite: ACCT 535 or the equivalent. The application of simulation techniques in the analysis of a variety of business systems. Examples will include accounting, finance, economics, marketing, and management systems.

565 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.

571 ORGANIZATIONAL SYSTEMS ANALYSIS
(3-0) 3 hours credit. Prerequisite: MGMT 530 or the equivalent. An intensive course covering current literature relating to management theory and enterprise leadership.

573 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.

580 ORGANIZATIONAL COMMUNICATIONS
(3-0) 3 hours credit. Prerequisite: MGMT 530. A survey of theoretical and functional aspects of organizational communication stressing interpersonal, intra- and interorganizational, and intercultural communication.

581 ORGANIZATIONAL BEHAVIOR
(3-0) 3 hours credit. Prerequisite: MGMT 530. 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.

600 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. 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.
610, 620, 630 SPECIAL PROBLEMS
1 to 3 hours credit.
May be repeated but no more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

671 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 macroeconomic aspects of our economy and contemporary problems and trends of business are covered.

COURSE DESCRIPTIONS

MARKETING
(MRKT)

530 FOUNDATIONS OF MARKETING
(3-0) 3 hours credit.
Marketing is studied as a function of business with intensive study in price determination, distribution of goods, promotion and organizational policies.

561 MARKETING MANAGEMENT
(3-0) 3 hours credit. Prerequisite: MGMT 530 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.

563 CONSUMER BEHAVIOR
(3-0) 3 hours credit. Prerequisite: MRKT 561.
Analysis of the consumer as the focal point of the economic system.

571 MARKETING RESEARCH
(3-0) 3 hours credit. Prerequisite: MRKT 561.
Problems in obtaining and analyzing internal and external marketing information using various instruments, design and techniques germane to marketing.

581 PROBLEMS IN MARKETING MANAGEMENT
(3-0) 3 hours credit. Prerequisite: MRKT 561.
Case problems in marketing. Designed to give the student an opportunity to utilize the material and analytical tools that have been acquired.

600 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.
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.

610, 620, 630 SPECIAL PROBLEMS
1 to 3 hours credit.
May be repeated, but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.
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, design, crafts, and music. Conceptual and visual awareness as well as technical ability are at the core of the programs of study which will stress imaginative, creative, and intellectual development.

Pending completion of permanent facilities, a limited number of graduate courses in the College of Fine and Applied Arts will be offered at studio art, the history of art, applied music, and music education.
MASTER OF FINE ARTS DEGREE

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

The Master of Fine Arts Degree is designed to prepare students for professional careers in studio art. The main fields of concentration in painting, drawing, sculpture, photography, printmaking and ceramics will also prepare students to teach studio art at the college and university level.

Special Admission Requirements. In addition to satisfying the university-wide admission requirements, applicants are expected to have a Bachelor of Fine Arts Degree or the equivalent. Specifically a student must have completed an undergraduate major including 42 hours in studio art and 18 hours in art history and criticism.

Applicants must submit slides of work (no portfolio) as well as a statement of intent to the Director of the Division of Art and Design.

Degree Requirements:

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<tr>
<th>Requirement</th>
<th>Hours</th>
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<tr>
<td>Field of major concentration (painting; drawing; sculpture; photography; printmaking; or ceramics)</td>
<td>18</td>
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<tr>
<td>Minor field (studio courses other than major)</td>
<td>9</td>
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<tr>
<td>Art history and criticism (including one seminar)</td>
<td>15</td>
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<td>Additional courses (two of the following three: one graduate course outside of the College of Fine and Applied Arts; Art Criticism or History of film)</td>
<td>6</td>
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<td>Thesis</td>
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<td>Exhibition</td>
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<td>60</td>
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COURSE DESCRIPTIONS

ART

560 PAINTING
(2-4) 3 hours credit. Prerequisite: B.A. with an art or related study concentration.
Painting techniques in various media with emphasis on the development of mature imagery.

570 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.

610, 620, 630 SPECIAL PROBLEMS
1 to 3 hours credit.
May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

660 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.

665 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.

670 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.

675 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.

680 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.

685 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.
686 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.

691 MASTER'S THESIS
(3-0) 3 hours credit.
May be repeated for credit but not more than 6 hours will apply to the Master's degree. Permission of the instructor is required.
Enrollment in ART 691 is required each term the thesis is in progress.

COURSE DESCRIPTIONS

HISTORY OF ART AND CRITICISM
(HAAC)

533 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.

534 BAROQUE ART AND ARCHITECTURE OF SOUTHERN AND NORTHERN EUROPE
(3-0) 3 hours credit. Prerequisite: B.A. with an art history or related study concentration.
A study of seventeenth century painting, sculpture, and architecture in Italy, Spain, France, Holland, and Belgium. A course stressing the development of the Baroque style in Rome where it reached its fullest expression in all artistic media and from where its influence spread throughout southern and northern Europe.

536 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.

561 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.

562 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.

565 THE CATHEDRAL IN SPAIN AND SPANISH AMERICA
(3-0) 3 hours credit. Prerequisite: B.A. with an art history or related study concentration.
A study of the major Spanish and Spanish American cathedrals, principally those of Santiago de Compostela, Burgos, Toledo, Córdoba, Sevilla, Cádiz, Granada, León (Spain), Mexico City, Puebla, Oaxaca, Mérida, Morelia, Zacatecas (New Spain), Antigua (Guatemala), Caracas, Bogotá, Quito (New Granada), Cajamarca, Lima, Cuzco (Peru), and La Paz (Upper Peru).

566 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, yeserias (gilded and polychromed stucco decorations), and retablo facades.

571 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.

575 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, yeserias (gilded and polychromed stucco decorations), and retablo facades.

580 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.

600 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.
Reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not nor-
mally 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.

610, 620, 630 SPECIAL PROBLEMS
1 to 3 hours credit.
May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

680 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.

683 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 Nahua 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.

COURSE DESCRIPTIONS

MUSIC (MUS)

530 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.

532 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.

564 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.

565 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.

582 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.

585 TWENTIETH CENTURY MUSIC LITERATURE
(3-0) 3 hours credit. Prerequisite: Bachelor of Music degree.

610, 620, 630 SPECIAL PROBLEMS
1 to 3 hours credit.
May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.
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.
The Master of Arts Degree in Spanish focuses on the various aspects of intellectual and creative development in Spain, Spanish America and the U.S. Southwest as reflected in language, literature and cultural patterns. Through training in the principles of the disciplines and supportive areas and bibliographical methods, and comparative literary or cultural analysis, students become specialists capable of producing integrated and authoritative studies in the various fields. They are prepared for careers in scholarship; in teaching at the elementary, high school, or college levels; or in various branches of government, business, law, and social service. Three concentrations are available in the program to fit the varying needs and interests of prospective students. These are in Hispanic Culture, Hispanic Literatures, and Spanish Language.

Special Admission Requirements. In addition to satisfying the university-wide 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. Also recommended is a minimum of four semesters of work in a second foreign language and broad acquaintance with Hispanic Culture.

Degree Requirements. All candidates for the degree will, in addition to satisfying the University-Wide Requirements for the Master's Degree, be required to successfully complete:

a. the core courses,

b. the required courses for a concentration,

c. the remaining requirements for either Option I or Option II.

Core Courses and Concentrations. Courses listed are given as possible electives. They can be substituted by others in the same area of study with the Division Director's and Advisor's permission.

Core Courses

BCBL 531 Foundations of Hispanic Cultures
SPAN 532 The Hispanic Literary Tradition

or

SPAN 685* Theory of Literature

*This option is only for students in the Hispanic Literatures concentration.
SPAN 583  Structure of Spanish  
SPAN 680  Hispanic Culture and Civilization

**Concentrations**

**Hispanic Culture**
- SPAN 573  The History of Ideas in Spain and Spanish America  
- SPAN 680  Hispanic Culture and Civilization  
- SPAN 682  Contemporary Hispanic Cultures

**Hispanic Literatures**
- SPAN 560  Masterpieces of Hispanic Literatures  
- SPAN 570  Twentieth Century Spanish Literature  
- SPAN 685  Theory of Literature

**Spanish Language**
- SPAN 584  History of the Spanish Language  
- SPAN 586  Spanish Phonetics  
- SPAN 588  Spanish Syntax  
  or  
- SPAN 589  Dialectology

**Option I:**
Six (6) semester hours of course work in a second field, as approved by the Graduate Advisor and Dean, and completion of an acceptable thesis (SPAN 691, six hours).

**Option II:**
Nine (9) semester hours of course work in a second field, as approved by the Graduate Advisor and Dean.
Nine (9) semester hours of course work in the concentration, a second field, or from a related area, as approved by the Graduate Advisor and Dean.

**COURSE DESCRIPTIONS**

**SPANISH**  
(SPAN)

532  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 language of literature. Literary periods, genres and motifs and their continuity through time and space. Mutual contributions of Hispanic literatures and World Literature.
533 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.

537 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.

560 MASTERPIECES OF HISPANIC LITERATURE
(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.

562 MEDIEVAL HISPANIC LITERATURE
(3-0) 3 hours credit.
A study of Hispanic Medieval epic poetry and balladry, narrative poetry and prose, medieval lyric and the drama, both liturgical and profane. Attention will be given to the relationship between literary types, styles and languages (Galician, Portuguese, and Catalanian).

563 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.

564 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.

566 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. Gongora and "Gongorism," Lope de Vega and the drama, the structure and meaning of the picaresque 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, the medieval heroic theme, the "life as a dream" theme will be particularly stressed.
HISPANIC ENLIGHTENMENT
(3-0) 3 hours credit.

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 indigenista and the costumbrista narrative. Stress on poesía gauchesca and on the essays dealing with the image and function of Spanish-American man.

NINETEENTH CENTURY SPANISH LITERATURE
(3-0) 3 hours credit.

TWENTIETH CENTURY SPANISH-AMERICAN LITERATURE
(3-0) 3 hours credit.

TWENTIETH CENTURY SPANISH LITERATURE
(3-0) 3 hours credit.

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.

MEXICAN-AMERICAN LITERATURE
(3-0) 3 hours credit.
An examination of the literature of Mexican-American authors. Its expression through poetry, the novel, the short story and the theater. Selections from popular literature such as oral and journalistic. The development of Mexican-American literature as a bicultural and bilingual artistic phenomenon.
583 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.

584 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.

585 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.

586 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.

587 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.

588 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.

589 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.

600 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.
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.

610, 620, 630 SPECIAL PROBLEMS IN SPANISH LANGUAGE
1 to 3 hours credit.
Individual directed readings and conferences on select problems or topics in Spanish Language. May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

611, 621, 631 SPECIAL PROBLEMS IN HISPANIC CULTURES
1 to 3 hours credit.
Individual directed readings and conferences on select problems or topics in Hispanic Cultures. May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

612, 622, 632 SPECIAL PROBLEMS IN HISPANIC LITERATURES
1 to 3 hours credit.
Individual directed readings and conferences on select problems or topics in Hispanic Literatures. May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

680 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.

681 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.

682 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.
683 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.

684 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.

685 THEORY OF LITERATURE
(3-0) 3 hours credit.
Language as literature (meta-language). The foundations and struc-
ture of literary genres. Literary motifs and themes. Literary func-
tions. 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.

691 MASTER'S THESIS
(3-0) 3 hours credit.
May be repeated for credit but not more than 6 hours will apply to
the Master's degree. Permission of the instructor is required. Enroll-
ment in SPAN 691 is required each term the thesis is in progress.

COURSE DESCRIPTIONS

ANTHROPOLOGY

529 SUPERVISED FIELD RESEARCH
(0-12) 2 hours credit. Prerequisite: Consent of instructor.
Offered only during the summer, this course must be taken concur-
rently with ANTH 549. 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.

530 FOUNDATIONS OF ARCHAEOLOGY
(3-0) 3 hours credit.
A survey of the history and development of Archaeology; research
techniques; method and theory of prehistoric research.

531 THE ARCHAEOLOGY OF MESOAMERICA
(3-0) 3 hours credit.
A survey of the major features of the native cultures of Mexico and
Guatemala. Emphasis will be put on cultural evolution, the growth
and decline of civilizations, relationships with natural settings, inter-
action among the cultures, and continuities into the historical present.

532 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 estab-
lishment of agricultural life, the development of urbanism, and the interaction of the various zones of the area in the evolution of civilization.

533 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 will all be considered.

535 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.

536 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 will be the colonial through the recent period although emphasis will be on the latter. Community studies of traditional communities, social, structural and economic systems studies, urban anthropology, and other sources will be utilized.

549 FIELD COURSE IN ARCHAEOLOGY
(2-12) 4 hours credit. Prerequisite: Consent of instructor.
Offered only during the summer, this field course is designed to provide training in archaeological field procedures. The importance of problem-oriented field research is stressed. Students may not enroll in other courses concurrently, except for ANTH 529. May be repeated for credit.

560 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.

561 FOUNDATIONS 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.

565 CULTURAL ECOLOGY
(3-0) 3 hours credit.
A systems approach to the inter-relationships between man, culture and the natural world.
580 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.

581 SEMINAR IN MEXICAN-AMERICAN CULTURE
(3-0) 3 hours credit.
A survey of Mexican-American culture. Special studies in ethnology, ethnography, folklore, and linguistics.

600 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.
Reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or 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.

610, 620, 630 SPECIAL PROBLEMS
1 to 3 hours credit.
May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

631 SEMINAR IN ANTHROPOLOGY OF MESOAMERICA
(3-0) 3 hours credit. Prerequisite: ANTH 531.
Topical focus will vary, but concentration will be on problems of anthropological interest in ethnology, archaeology or ethnohistory. May be repeated for credit.

COURSE DESCRIPTIONS

ENGLISH
(ENGL)

530 STUDIES IN RENAISSANCE DRAMA
(3-0) 3 hours credit.
Reading and analysis of plays by Marlowe, Shakespeare, Ben Johnson Kyd, Beaumont, Fletcher, and others.

531 STUDIES IN VICTORIAN POETRY
(3-0) 3 hours credit.
A consideration and analysis of poetry by the Brownings, Tennyson, Swinburne, Morris, Rosetti, and others.

532 STUDIES IN 19TH CENTURY AMERICAN FICTION
(3-0) 3 hours credit.
Critical analysis of works by Melville, Hawthorne, Howell, James, Twain, Poe, and others.

533 STUDIES IN THE FICTION OF THE GREATER SOUTHWEST
(3-0) 3 hours credit.
Consideration of the works of Dobie, LaFarge, "The Santa Fe School," Steinbeck, Bret Harte, and others.

535 MODERN AMERICAN SHORT STORY
(3-0) 3 hours credit.
An in-depth study of the short story from the point of view of structure, theme, and style. Such writers as Hemingway, Welty, Porter, Faulkner, Singer, Updike and others will be considered.

537 SHAKESPEARE STUDIES
(3-0) 3 hours credit.
Reading and analysis of representative plays.

600 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.
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.

610, 620, 630 SPECIAL PROBLEMS
1 to 3 hours credit.
May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

633 SEMINAR: ENGLISH LINGUISTICS
(3-0) 3 hours credit.
May be repeated for credit when topics vary. Topics: sociolinguistics, phonological analysis, grammatical analysis, grammar of written English.

COURSE DESCRIPTIONS

ENGLISH AS A SECOND LANGUAGE
(ENSL)

531 LINGUISTIC APPROACH TO ENGLISH AS A SECOND LANGUAGE
(3-0) 3 hours credit.
Phonemic and morphemic analysis. Theoretical background to the techniques, and their application as tools to the problems of bilingualism. Consideration of such matters as transformational grammar will be included. Practicum work is required.

97
532 COMPARATIVE LINGUISTIC STRUCTURES OF SPANISH AND ENGLISH
(3-0) 3 hours credit. Prerequisite: ENSL 531.
Detailed analysis and comparison of linguistic structures of the two languages with an emphasis on problem areas of bilinguals. Means of dealing with these problems will be emphasized.

561 TEACHING ENGLISH AS A SECOND LANGUAGE
(3-0) 3 hours credit.
Survey of the basic philosophies and approaches in methodologies in teaching the oral aspects of English as a second language. Includes practice in techniques for developing oral language and incidental learning.

562 READING TECHNIQUES IN ENGLISH AS A SECOND LANGUAGE
(3-0) 3 hours credit.
The teaching of reading English as a second language with emphasis on the development of audio-lingual mastery as a basis of reading development—all within a cross-cultural context. Exploration of testing techniques and the use of audio-lingual materials applicable to the development of cognition skills.

610, 620, 630 SPECIAL PROBLEMS
1 to 3 hours credit.
May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

COURSE DESCRIPTIONS
FOREIGN LANGUAGES (FL)

531 BASIC RESEARCH DESIGN IN FOREIGN LANGUAGES
(3-0) 3 hours credit. Prerequisite: A basic statistics course.
Consideration of basic concepts of research design, strategies and sources. An examination of tests and measurements, multivariate statistics, and computer-assisted instruction. Includes field experience and data analysis.

561 FOREIGN LANGUAGE MEDIA INSTRUCTION
(3-0) 3 hours credit.
Consideration of all media in implementation of foreign language instruction and curriculum, survey of the basic philosophies and approaches in methodology in the teaching of foreign language.

COURSE DESCRIPTIONS
GEOGRAPHY (GEOG)

535 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 will be considered.

561 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 will be among the topics covered.

563 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 will be included in the course.

565 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.

567 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., will be used to explain settlement patterns and economic developments. Topics such as the Roman subsistence dependence on North Africa will be included.

581 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 will be considered.

600 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.  
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.

610, 620, 630 SPECIAL PROBLEMS
1 to 3 hours credit.
May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

631 SEMINAR IN THE GEOGRAPHY OF LATIN AMERICA
(3-0) 3 hours credit.
May be repeated for credit when topics vary.

COURSE DESCRIPTIONS

HISTORY
(HIST)

530 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.

531 SEMINAR IN TEXAS HISTORY
(3-0) 3 hours credit.
Intensive examination of the major issues of Texas History.

532 READINGS SEMINAR IN AMERICAN HISTORY
FOR TEACHERS
(3-0) 3 hours credit.
Individually tailored programs of readings for high school history teachers, coordinated in a seminar.

533 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 will be expected to prepare for each colloquium by appropriate reading.

560 HISTORY OF SOUTH AMERICA: THE COLONIAL PERIOD
(3-0) 3 hours credit.
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.

561 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.

570 EUROPEAN HISTORY: THE AGE OF EXPLORATION
(3-0) 3 hours credit.
Focuses on 15th and 16th century European contacts and discovery of the other parts of the world. Political, economic, and cultural impacts.

571 EUROPEAN HISTORY: A SURVEY OF ENGLISH HISTORY
(3-0) 3 hours credit.
Consideration of the major features on English cultural, political, economic, and military history. Detailed examination of selected eras and events, such as the Elizabethan period, the Industrial Revolution, the establishment of the Indian Empire, and the Puritan Revolution.

573 EUROPEAN HISTORY: THE MODERN ERA, 1815-1945
(3-0) 3 hours credit.
Restructuring of European politics after Waterloo; nationalist movements, Italy and Greece; the Pan-Slavic movement; the Franco-Prussian War; Socialist movements and Marxism; rise of Germany; colonial and imperial rivalries; World War I; the Russian Revolution; between the world wars; dictatorships and totalitarian movements; World War II.

580 HISTORY OF MEXICO AND GUATEMALA: THE COLONIAL PERIOD
(3-0) 3 hours credit.
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 viceroyalty.

581 HISTORY OF MEXICO AND GUATEMALA: THE EARLY REPUBLICAN PERIOD
(3-0) 3 hours credit.
The background of the War of Independence; the wars themselves; economic and social changes and developments in republican times; European interventions; the War with the United States; conservative and liberal conflicts; the Porfiriato. The Central American Federation. European immigration to Guatemala in the 19th century.

582 HISTORY OF MEXICO AND GUATEMALA: THE MODERN PERIOD
(3-0) 3 hours credit.
The revolution of 1910 in Mexico; Madero, Obregón, Zapata, Villa;
intervention; Calles and the anti-clerical movement; stabilization; Cárdenas and the Petroleum Crisis. Guatemala and the dictatorship of Ubico; World War II and changes in Mexico and Guatemala. Postwar developments. *Indigenismo*.

583 MAKERS OF LATIN AMERICAN HISTORY (3-0) 3 hours credit.
A study of Latin American History through biographical studies of the major figures of Latin American History.

587 SEMINAR IN THE HISTORY OF MEXICO (3-0) 3 hours credit.
May be repeated for credit when topics vary.

590 THE GREATER SOUTHWEST (3-0) 3 hours credit.
A study of the regional events of the area and their relationships to larger matters in Mexico and the United States during the nineteenth and twentieth centuries. Historical perspectives of U.S. and Mexico relations in which political, intellectual, and economic developments are interwoven with sociological and demographic questions.

591 AMERICAN HISTORY: SEMINAR IN SOUTHWEST HISTORY (3-0) 3 hours credit.
May be repeated as topics vary.

600 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.
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.

610, 620, 630 SPECIAL PROBLEMS
1 to 3 hours credit.
May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

635 HISTORIOGRAPHY (3-0) 3 hours credit.
An examination of the nature of history, historical method, appraisal of sources, and presentation of results.

660 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.
COURSE DESCRIPTIONS

POLITICAL SCIENCE
(POS)

531 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 will be on the contemporary era and its historical evolution.

533 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.

535 CONTEMPORARY ISSUES IN AMERICAN GOVERNMENT
(3-0) 3 hours credit. Prerequisite: Graduate standing.
An in-depth examination of the contemporary issues and problems involving government and politics in American society.

562 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.

600 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.
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.

610, 620, 630 SPECIAL PROBLEMS
1 to 3 hours credit.
May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

COURSE DESCRIPTIONS

SOCIOLOGY
(SOC)

560 JUVENILE DELINQUENCY
(3-0) 3 hours credit.
Analysis of classic and modern research regarding the causes, predic-
tion, and prevention of juvenile delinquency with applications to schools, courts and correctional institutions.

600 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.

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.

610, 620, 630 SPECIAL PROBLEMS
1 to 3 hours credit.
May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

635 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.

636 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.

637 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.

638 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.

639 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.
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.
MASTER OF ARTS DEGREE IN BICULTURAL-BILINGUAL STUDIES

Concentrations in:
  Bicultural-Bilingual Teacher Education
  Bicultural Studies

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 associated 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 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.

Concentration in Bicultural-Bilingual Teacher Education

Option I (a total of 30 semester hours including a thesis)
Possible courses for selection are:

   BCBL 530  Cultural Dimensions of the Spanish and English Languages
   BCBL 531  Foundations of Hispanic Cultures
   BCBL 532  Biculturalism: U.S.-Mexico
   BCBL 571  Cultural Adaptation Supportive of Bilingualism
   BCBL 573  Foundations of Bicultural-Bilingual Education
   BCBL 575  Techniques of Teaching to Develop Bilingualism
BCBL 578  Teaching Content in a Bicultural-Bilingual Education Program

BCBL 691  (6 hours) Master's Thesis

Nine (9) semester hours of supporting course work, 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.

Option II (a total of 36 semester hours, non-thesis program)
Possible courses for selection are:

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<tr>
<th>Course Code</th>
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</tr>
<tr>
<td>BCBL 630</td>
<td>Special Problems in Bilingual Education</td>
</tr>
</tbody>
</table>

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

Nine (9) semester hours of course work in Bicultural Studies, the second field, or from a related area, 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.

**Bicultural Studies.** This concentration offers an intensive program of studies preparing students to attain an in-depth 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 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.

**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.

**Concentration in Bicultural Studies**

*Option I* (a total of 30 semester hours including a thesis)
Possible courses for selection are:

- **BCBL 530** Cultural Dimensions of the Spanish and English Languages
- **BCBL 531** Foundations of Hispanic Cultures
- **BCBL 532** Biculturalism: U.S.-Mexico
- **ANTH 581** Seminar in Mexican-American Culture
- **HIST 590** The Greater Southwest
- **BCBL 691** (6 hours) Master’s Thesis

One of the following courses or its equivalent:

- **SOC 636** Seminar in Urban Social Stratification
- **SPAN 580** Mexican-American Literature
- **HAAC 561** Art and Architecture of Mexico and Mexican America

Six (6) hours of course work in a supporting area, 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.

*Option II* (a total of 36 hours, non-thesis program)
Possible courses for selection are:

- **BCBL 530** Cultural Dimensions of the Spanish and English Languages
BCBL 531 Foundations of Hispanic Cultures
BCBL 532 Biculturalism: U.S.-Mexico
ANTH 581 Seminar in Mexican-American Culture
HIST 590 The Greater Southwest
SPAN 580 Mexican-American Literature
HAAC 561 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.

Nine (9) semester hours of course work in Bicultural-Bilingual Studies, or from a second field, or in a related area, 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.

COURSE DESCRIPTIONS

BICULTURAL-BILINGUAL STUDIES
(BCBL)

530 CULTURAL DIMENSIONS OF THE SPANISH AND ENGLISH LANGUAGES
(3-0) 3 hours credit.
Examination of the requirements for effective communication both in the native and target languages emphasizing the interrelationship between cultural and linguistic conflict and social change.

531 FOUNDATIONS OF HISPANIC CULTURES
(3-0) 3 hours credit.
A study of Iberian history and the confluence of cultures resulting from the colonization of America. A survey of the content of intellectual and artistic development as evidenced in the utilization of the physical, cultural, spiritual and human resources of the Iberian Peninsula and Spanish America. Methods and techniques of cultural analysis.

532 BICULTURALISM: U.S.-MEXICO
(3-0) 3 hours credit.
A general historical perspective and study of present-day interactions between educational, economic, socio-political, and religious institutions of the U.S. Southwest and the bicultural individual.

571 CULTURAL ADAPTATION SUPPORTIVE OF BILINGUALISM
(3-0) 3 hours credit.
A study of the social and cultural institutions, relationships, attitudes, goals, values, and concepts necessary for acculturation and bilingual assimilation.
573 FOUNDATIONS OF BICULTURAL-BILINGUAL EDUCATION
(3-0) 3 hours credit.
A thorough investigation of the philosophies, research, and theories
of bicultural-bilingual education as it relates to the learning process
of individual children.

575 TECHNIQUES OF TEACHING TO DEVELOP BILINGUALISM
(3-0) 3 hours credit.
A study of the different methodologies, approaches and techniques
applicable in developing bilingualism.

576 BILINGUAL PROGRAMS IN ADULT EDUCATION
(3-0) 3 hours credit.
A study of the development, selection, methodology, and utilization
of materials in bilingual programs specifically designed for adults,
including examination of teaching practices and materials.

577 TESTING AND EVALUATION IN BILINGUAL EDUCATION
(3-0) 3 hours credit. Prerequisite: Consent of instructor.
Test validity and interpretation of scores; construction of appropriate
tests and rating scales to measure bilingual knowledge, skills and
attitudes; application and adaptation of standardized instruments.

578 TEACHING CONTENT IN A BICULTURAL-BILINGUAL
EDUCATION PROGRAM
(3-0) 3 hours credit.
Investigating curriculum and materials in different content areas
appropriate to the teaching of the bilingual child and utilizing the
native language as a medium of instruction.

580 READING TECHNIQUES IN A BICULTURAL-
BILINGUAL PROGRAM
(3-0) 3 hours credit. Prerequisite: Some background in contrastive
linguistics or TESOL is desirable.
The teaching of reading in the native language and its transferability
to the second language emphasizing various processes in reading, oral
language development, age factor, and cognitive development.

590 PSYCHOLOGICAL CONSIDERATIONS IN A
BICULTURAL ENVIRONMENT
(3-0) 3 hours credit.
A study of psychological factors affecting the learning styles of chil-
dren in bicultural environments emphasizing language behavior, psy-
cological and linguistic units, and cognitive styles.

600 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.
Reading, research, discussion, and/or writing under the direction of
a faculty member. For students needing specialized work not nor-
mally 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.
610, 620, 630 SPECIAL PROBLEMS
1 to 3 hours credit.
May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

660 PROTOTYPES IN BICULTURAL-BILINGUAL EDUCATION
(3-0) 3 hours credit.
An investigation of theoretical prototypes in bicultural-bilingual education. Emphasis on criteria for selection, community needs, availability of resources, the process for implementation, and management.

691 MASTER'S THESIS
(3-0) 3 hours credit.
May be repeated for credit but not more than 6 hours will apply to the Master's degree. Permission of the instructor is required. Enrollment in BCBL 691 is required each term the thesis is in progress.
MASTER OF ARTS DEGREE IN EDUCATION

Concentrations:

Cultural Foundations of Education  
Curriculum and Instruction  
Early Childhood and Elementary Education  
Educational Management  
Institutions of Higher Education

The Master of Arts Degree in Education offers five 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 tailor-made 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.* 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 parts of professional education at the graduate level. The student in this concentration will be provided a broad education in professional and academic areas. Throughout the program the concepts of curricular innovation and excellence of teaching will be stressed. Classroom teachers will 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 will stress human growth and development since, to a large extent,

*Doctoral degree programs may be available, at a future date, in Cultural Foundations of Education and in the other four concentrations in Education.
the adult characteristics of an individual are determined long be­
fore he reaches first grade. Included in the program is learning
theory and familiarization with current research and research
methods. Students in this program will learn how to observe and
identify symptoms of learning problems as well as knowing how
to cope with them effectively. This concentration is designed pri­
marily for experienced classroom teachers at the early childhood
and elementary levels.

The concentration in Educational Management is designed for
those individuals who desire careers in public and private school
systems, elementary schools, or secondary schools in administra­
tive positions. This concentration will help individuals to under­
stand instructional problems and educational philosophies as well
as to develop expertise in management and the applications of
management to educational settings. Sufficient flexibility is pro­
vided to allow students in this program to obtain additional train­
ing in related areas which will increase effectiveness in the educa­
tional setting while increasing their broad knowledge of the
elementary and secondary educational processes. Students seeking
administrative certification will be able to complete the require­
ments for this concentration while obtaining professional certifica­
tion in administration and supervision.

The Institutions of Higher Education concentration is designed for
those individuals seeking careers in the areas of teaching or ad­
ministration 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 pro­
gram 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 will be
required. In addition to studying the particular characteristics of
institutions of higher education and the multitude of critical issues
involved, students will 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 will be required to meet the university-wide admission criteria. Individuals without adequate preparation in Education may be required to complete satisfactorily preparatory courses as a condition of admission; however, UT San Antonio will not offer undergraduate preparatory work until The University is on its permanent campus.

Degree Requirements. All degree candidates in Education are required to have the following experiences:

2. Values and Their Relationship to Education (EDUC 532 or EDUC 581).
3. Learning Psychology (EDUC 561 or EDUC 565).
   For students in the appropriate concentrations ECED 563 or HED 591 may be substituted.
4. An appropriate course in curriculum (CURR 571 or CURR 591 for a concentration in Curriculum and Instruction, CURR 561 or CURR 562 for Early Childhood and Elementary, CURR 581 or HED 561 for Higher Education, CURR 660 for Educational Management, or others).

In addition all students are required to have a minimum of 6-9 hours in one of the 5 Education concentrations and a minimum of 15-18 hours of electives (planned with the help of the assigned advisor and approved by the student's degree supervisory committee) for Option II or a minimum of 3-6 hours of electives for Option I-Thesis option. It is recommended that students following Option I elect EDUC 531, Inferential Educational Statistics, as one course in their programs. Students who wish to be recommended for a Teaching Certificate as well as to obtain a degree may have to use electives in meeting certification requirements.

COURSE DESCRIPTIONS
CURRICULUM AND INSTRUCTION
(CURR)

561 EARLY CHILDHOOD AND ELEMENTARY SCHOOL CURRICULA
(3-0) 3 hours credit. Prerequisite: EDUC 530.
A systematic analysis of early childhood and elementary school curricula. A critical study of objectives, methods of organization, content, methods, and materials of learning used with young children.

562 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.

565 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.

568 ADVANCED CURRICULUM DESIGN FOR EARLY CHILDHOOD EDUCATION
(3-0) 3 hours credit. Prerequisite: Consent of instructor.
An analysis of the theoretical basis for curriculum building: developmental levels, domains of learning, taxonomy of objectives.

571 SECONDARY SCHOOL CURRICULA
(3-0) 3 hours credit. Prerequisite: EDUC 530.
A systematic analysis of secondary school curricula. A critical study of objectives, methods of organization, content, methods and materials of learning used with youth.

581 HIGHER EDUCATION CURRICULA
(3-0) 3 hours credit. Prerequisite: EDUC 530.
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.

591 CURRICULUM THEORY AND DYNAMICS
(3-0) 3 hours credit. Prerequisite: EDUC 561 or EDUC 571 or EDUC 581.
An examination of theoretical structures underlying curriculum considerations and the implications of these to processes of curricular planning, development and change.

595 DEVELOPMENT OF INSTRUCTIONAL MATERIALS
(3-0) 3 hours credit.
A course dealing with the development and implementation of instructional materials. Special attention will be given to designing programs suitable for audio-visual tutorial, self-paced instruction that will permit flexibility for different student learning styles.

600 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.
Reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not nor-
mally 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.

610, 620, 630 SPECIAL PROBLEMS
1 to 3 hours credit.
May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

660 SUPERVISION: THEORETICAL BASIS
(2-1) 3 hours credit.
An application of learning theory, curriculum development theory, and educational planning theory to curricular development and instructional supervision.

661 SUPERVISION: TEACHING-LEARNING PROCESS
(2-1) 3 hours credit.
The analysis and application of models of the teaching-learning process to instructional supervision.

662 SUPERVISION: TOOLS AND TECHNIQUES
(2-1) 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.

670 OCCUPATIONAL INFORMATION AND RESOURCES
(3-0) 3 hours credit. Prerequisite: EDP 530.
A study of occupations, requirements for entry, and means of satisfying personality needs.

COURSE DESCRIPTIONS

EARLY CHILDHOOD AND ELEMENTARY EDUCATION (ECED)

561 SEMINAR ON DEVELOPMENT IN EARLY CHILDHOOD AND INFANCY
(3-0) 3 hours credit.
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.

563 PRE-SCHOOL LEARNING THEORIES
(3-0) 3 hours credit.
Analysis of ideas and practices advocated by leading contemporary early childhood specialists. Evaluation of these approaches through the observation of children to determine the degree of adequacy and practicality of these theories.
565 BEHAVIOR DISORDERS IN CHILDREN
(3-0) 3 hours credit. Prerequisite: EDUC 530.
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.

570 READING IN ELEMENTARY SCHOOL
(3-0) 3 hours credit.
An analysis of fundamental concepts and principles of reading. Studies of methodology in organizing and teaching and eclectic program of reading.

571 DIAGNOSTIC AND CORRECTIVE READING TECHNIQUES
(3-0) 3 hours credit.
Diagnosis of reading disabilities, remedial measures, and work with clinical cases. Incentives and skills used to teach the poor reader.

572 CLINICAL READING TECHNIQUES
(2-1) 3 hours credit.
The development of diagnostic and remedial skills of students, including the linguistically different student, through the study of clinical instruments, research, informal measurements and remedial approaches used in reading clinics.

573 SEMINAR IN READING
(3-0) 3 hours credit.
A directed intensive study of selected problems in reading with emphasis on current trends and research. Special emphasis given to problems of the linguistically different child.

575 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.

578 DIAGNOSTIC AND PRESCRIPTIVE WRITING IN EARLY CHILDHOOD EDUCATION
(2-1) 3 hours credit. Prerequisite: Consent of instructor.
Development of the skills of diagnosing the writing needs of young children and the writing of educational strategies to meet these needs. Practical experience in these skills.

581 SPECIALIZED INSTRUCTION IN THE ELEMENTARY SCHOOL
(3-0) 3 hours credit. Prerequisite: EDUC 530.
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.

595 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.

597 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.

599 PRACTICUM IN KINDERGARTEN
(2-1) 3 hours credit. Prerequisite: 9 semester hours in Early Childhood—courses relating to kindergarten.
Practical experiences in a state-approved kindergarten program under a qualified teacher. Seminar presentations and discussion of methods coupled with practical application in the kindergarten setting.

600 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.
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.

610, 620, 630 SPECIAL PROBLEMS
1 to 3 hours credit.
May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

COURSE DESCRIPTIONS

EDUCATION
(EDUC)

530 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.

531 INFERENTIAL EDUCATIONAL STATISTICS
(3-0) 3 hours credit. Prerequisite: EDUC 530. 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.

532 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.

561 PSYCHOLOGICAL BASIS FOR LEARNING  
(3-0) 3 hours credit. Prerequisite: EDUC 530.  
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.

563 SOCIO-ECONOMIC PROBLEMS IN EDUCATION  
(3-0) 3 hours credit. Prerequisite: EDUC 530.  
Identification and analysis of the major socio-economic problems in education, evaluation of attempted historical solutions, and policy information.

565 LEARNING THEORIES RELATED TO HUMAN DEVELOPMENT  
(3-0) 3 hours credit.  
Based on the observation of students and the study of learning theories, the relationships of age group characteristics, development tasks, behavioral changes from pre-school through high school to academic achievement are studied.

571 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.

581 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.

583 SEMINAR IN SOCIAL FOUNDATIONS OF EDUCATION  
(3-0) 3 hours credit.  
A study of the interaction of education and other social agencies.

585 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 for the pre-school and primary levels to meet unique learning needs of the non-English speaking child.

591 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.  
A Elementary  
B Secondary  
C Higher Education
600 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.
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.

610, 620, 630 SPECIAL PROBLEMS
1 to 3 hours credit.
May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

660 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.

691 MASTER'S THESIS
(3-0) 3 hours credit.
May be repeated for credit but not more than 6 hours will apply to the Master's degree. Permission of the instructor is required. Enrollment in EDUC 691 is required each term the thesis is in progress.

COURSE DESCRIPTIONS

EDUCATIONAL MANAGEMENT
(EDMG)

530 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.

533 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.

535 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.
538 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.

561 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.

571 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.

575 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.

581 PERSONNEL ADMINISTRATION
(3-0) 3 hours credit. Prerequisite: MGMT 530.
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.

590 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.

600 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.
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.

610, 620, 630 SPECIAL PROBLEMS
1 to 3 hours credit.
May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.
660A,B INTERNSHIP IN EDUCATIONAL MANAGEMENT
(0-9) 3 hours credit each. Prerequisite: Permission of the Dean.
Supervised on-the-job experience with related reading and study. The intern will work with school administrators 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.

COURSE DESCRIPTIONS

EDUCATIONAL PSYCHOLOGY
(EDP)

530 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.

560 DIAGNOSIS AND COUNSELING
(3-0) 3 hours credit. Prerequisites: EDUC 530 and EDP 530.
Counseling theory and techniques for identification of student problems. Focus on: tools and techniques for identification; counseling for personal adjustment.

565 PSYCHOMETRIC PROCEDURES
(3-0) 3 hours credit. Prerequisites: EDUC 530 and EDP 560.
A study of instruments used to measure personality variables. Focus on administering and interpreting instruments measuring intellectual abilities.

570 GROUP PROCESSES: THE INDIVIDUAL IN THE GROUP
(3-0) 3 hours credit. Prerequisites: EDUC 530 and EDP 530 or consent of instructor.
A study of group structure and theory. Focus on group influences on behavior.

600 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.
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.

610, 620, 630 SPECIAL PROBLEMS
1 to 3 hours credit.
May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.
660 PRACTICUM IN COUNSELING
(1-6) 3 hours credit. Prerequisites: EDP 560 and EDP 570.
Supervised experience identifying and diagnosing student problems in
an educational setting.

COURSE DESCRIPTIONS

HIGHER EDUCATION
(HED)

561 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.

571 RESOURCE ALLOCATIONS IN HIGHER EDUCATION
(3-0) 3 hours credit.
Concepts and practices in financing, planning, program and institu­tional budgeting in higher education.

581 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.

591 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.

595 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.

600 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.
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.

610, 620, 630 SPECIAL PROBLEMS
1 to 3 hours credit.
May be repeated but not more than 6 hours will apply to a Master's
degree. All work required for credit must be submitted to the in­structor two weeks prior to the final examination period and must be
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.

COURSE DESCRIPTIONS

SECONDARY EDUCATION (SED)

570 READING IN SECONDARY SCHOOL (3-0) 3 hours credit.
The development and study of methods of teaching reading skills in order to maximize proficiency in learning various academic subjects. Effective use of teaching aids and equipment.

591 PROBLEMS OF TEACHING IN SECONDARY EDUCATION (3-0) 3 hours credit.
Case studies and seminar approach to theory and practice of teaching in secondary schools for experienced teachers. An advanced intensive study of classroom organizational patterns, communication patterns, leadership roles, experimental programs, and the selection and use of instructional materials will be among the problems investigated.

600 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.
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.

610, 620, 630 SPECIAL PROBLEMS
1 to 3 hours credit.
May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.
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. There are no special admission requirements in addition to the university-wide requirements which apply for admission to the Master of Arts Degree program in Environmental Management. Instead of the requirement of a minimum of 18 hours of specific undergraduate work, an individual review of the applicant's background will be made in order to ensure adequate preparation for graduate study.

Degree Requirements. Each candidate for the Master of Arts Degree in Environmental Management will, in addition to satisfying the University-Wide Requirements for the Master's Degree, be required to successfully complete 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):

- ENVN 560 Investigative Methods in Environmental Studies
- ENVN 562 Human and Natural Resources
- ENVN 564 Concepts for Environmental Management
Six (6) semester hours of course work in a supporting area, as approved by the Graduate Advisor and Dean.

Option II (a total of 36 semester hours of approved course work is required):

ENVN 560 Investigative Methods in Environmental Studies
ENVN 562 Human and Natural Resources
ENVN 564 Concepts for Environmental Management
ECON 571 Economics of Human Resources
ECON 632 Manpower Policy
ENVN 633 Manpower Training
ENVN 681A,B Internship or ENVN 600, Independent Study, (6 hours)

Six (6) semester hours of course work in a second field, as approved by the Graduate Advisor and Dean.

Six (6) semester hours of course work in Environmental Studies.

Concentration in Urban Studies

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

ENVN 560 Investigative Methods in Environmental Studies
ENVN 664 Ecological Dimensions of Urban Systems
ENVN 665 Urban Research
ENVN 666 Urban Housing
ENVN 667 Urban Planning
ENVN 668 Comparative Urban Development
ENVN 691 Master's Thesis (6 hours)

Six (6) semester hours of course work in a supporting area, as approved by the Graduate Advisor and Dean.

Option II (a total of 36 semester hours of approved course work is required):

ENVN 560 Investigative Methods in Environmental Studies
ENVN 664  Ecological Dimensions of Urban Systems
ENVN 665  Urban Research
ENVN 666  Urban Housing
ENVN 667  Urban Planning
ENVN 668  Comparative Urban Development
ENVN 681A,B Internship or ENVN 600, Independent Study, (6 hours)

Six (6) semester hours of course work in a related field, as approved by the Graduate Advisor and Dean.

Six (6) semester hours of course work in Environmental Management, from the related field, or from another supportive area, as approved by the Graduate Advisor and Dean (ENVN 666 and FIN 663 are suggested).
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. There are no special admission requirements in addition to the university-wide requirements which apply for admission to the Master of Science Degree program in Environmental Management. Instead of the requirement of a minimum of 18 hours of specific undergraduate work, an individual review of the applicant’s background will be made in order to ensure adequate preparation for graduate study.

Degree Requirements. Some or all of the following foundation courses may be required as conditions for students whose backgrounds in the sciences are insufficient to permit full admission to the graduate degree program:

PHSC 530A Physical Science Studies I

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All candidates for the Master of Science Degree in Environmental Management will, in addition to satisfying the University-Wide Requirements for the Master's degree, be 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):

- **ENVN 560** Investigative Methods in Environmental Studies
- **ENVN 561** Applied Ecology
- **ENVN 563** Economics of Natural Resources
- **ENVN 571** Water Management
- **ENVN 575** Land Management
- **ENVN 591** Business Dimensions of Environmental Management
- **ENVN 691** Master's Thesis (6 hours)

Six (6) hours of course work in a related field, as approved by the Graduate Advisor and Dean.

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

- **ENVN 560** Investigative Methods in Environmental Studies
- **ENVN 561** Applied Ecology
- **ENVN 563** Economics of Natural Resources
- **ENVN 571** Water Management
- **ENVN 575** Land Management
- **ENVN 585** Economic Geology
- **ENVN 591** Business Dimensions of Environmental Management
- **ENVN 671** Seminar in Environmental Management
- **ENVN 681A,B** Internship or **ENVN 600**, Independent Study, (6 hours)

Six (6) hours of course work in a related field, as approved by the Graduate Advisor and Dean.
COURSE DESCRIPTIONS

ENVIRONMENTAL MANAGEMENT
(ENVN)

560 INVESTIGATIVE METHODS IN ENVIRONMENTAL STUDIES
(3-0) 3 hours credit.
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 an urban environment.

561 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.

562 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 wild life. The changing role of human and natural resources as they relate to technology over time is analyzed.

563 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.

564 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.

571 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.

575 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 produc-
tive 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.

585 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 it relates to the value of these resources are analyzed.

590 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.

591 BUSINESS DIMENSIONS OF ENVIRONMENTAL MANAGEMENT
(3-0) 3 hours credit.
A course intended to give the student a survey introduction into the role of business tools in the areas of accounting, marketing, management, and finance as they relate to the efficient utilization of natural resources. The subject is approached from a public sector rather than from a business firm point of view.

600 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.
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.

610, 620, 630 SPECIAL PROBLEMS
1 to 3 hours credit.
May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

633 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.

637 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.

664 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.

665 URBAN RESEARCH  
(3-0) 3 hours credit. Prerequisite: ENVN 667.  
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.

666 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.

667 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.

668 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.

671 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.

681A,B 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.

691 MASTER'S THESIS  
(3-0) 3 hours credit.  
May be repeated for credit but not more than 6 hours will apply to the Master's degree. Permission of the instructor is required. Enrollment in ENVN 691 is required each term the thesis is in progress.
COURSE DESCRIPTIONS

BILINGUAL MEDICAL INTERPRETING

(BMI)

(Courses may be taught in English or Spanish or both, depending on the needs of the students.)

530 SOCIO-CULTURAL FOUNDATIONS OF MEDICINE
(3-0) 3 hours credit. Prerequisite: Graduate standing.
A course dealing with the role of medicine in society studied from historical as well as contemporary points of view. Specific areas covered are the contributions of medicine to human betterment, preparation of physicians, role of medical research, changing role of medical technology, and the economics of medical care. The student is given a comprehensive overall view of the various branches of medical activity.

561A MEDICAL TERMINOLOGY I
(3-0) 3 hours credit.
An intensive study of important medical terminology and concepts. Students will be expected to be bilingual in English and Spanish in conveying an understanding of this medical knowledge.

561B MEDICAL TERMINOLOGY II
(3-0) 3 hours credit.
A continuation of 561A in which additional terminology and concepts will be studied as well as reinforcement of the bilingual aspects of communicating this information.

571 HEALTH CARE DELIVERY SYSTEMS
(3-0) 3 hours credit. Prerequisite: BMI 530.
An examination of medical centers, hospitals, clinics and private physicians' offices as they function to provide needed health services for the population. Special emphasis will be made to give the student an understanding of the organization and functions of hospitals and medical centers, both public and private.

581 GATHERING, REPORTING, AND MANAGEMENT OF MEDICAL DATA
(3-0) 3 hours credit.
A study of patient interviewing techniques and analysis of the information for eventual use by the physician. The management of this data for maintenance and ready accessibility is examined.

610, 620, 630 SPECIAL PROBLEMS
1 to 3 hours credit.
May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

633 SEMINAR IN BILINGUAL MEDICAL INTERPRETING
(3-0) 3 hours credit.
A course intended to provide the student with an opportunity to study current problems relating to this area of medicine.
The College of Sciences and Mathematics will, when fully operative, offer professional training 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 training in the theoretical aspects of the disciplines, stressing the applicational aspects. 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 the temporary facilities.
MASTER OF SCIENCE DEGREE IN BIOLOGY

The graduate program in Biology is directed to those students who desire advanced training 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.

Faculty in several areas such as Molecular Biology, Physiology, and Genetics are available to direct student research or specialized education.

Special Admission Requirements. There are no special admission requirements for the Master of Science Degree in Biology other than the university-wide requirements. 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 will be required to complete successfully 36 semester hours in addition to complying with the University-Wide Requirements for the Master's Degree. These 36 hours will be subject to the following conditions:

1. A minimum of 18 hours of organized course work must be chosen from non-foundation courses within the Division of Earth and Life Sciences.

2. A student electing the non-thesis program is required to complete 3 hours of BIOL 600, Independent Study, in addition to 18 organized class hours in the Division.

3. If a student elects the thesis program, 6 hours of BIOL 691, Master's Thesis, must be completed in addition to the 18 organized class hours within the Division.
COURSE DESCRIPTIONS

BIOLOGY (BIOL)

510 LIFE SCIENCES COLLOQUIUM
(1-0) 1 hour credit. Prerequisite: Graduate standing.
Current research presented by faculty, visiting lecturers and thesis candidates.

520 SEMINAR IN BIOLOGY
(2-0) 2 hours credit. Prerequisite: Post-baccalaureate or graduate standing in biology.
Student presentations in selected areas of biological research.

521 COMPARATIVE VERTEBRATE REPRODUCTION
(2-0) 2 hours credit. Prerequisite: A course in endocrinology.
A detailed comparative study of the mechanisms of vertebrate reproduction and of environmental factors which affect reproduction.

525 EXPERIMENTAL REPRODUCTIVE PHYSIOLOGY AND ENDOCRINOLOGY
(0-6) 2 hours credit. Prerequisite: Endocrinology or reproductive physiology courses.
Laboratory studies in reproductive physiology and endocrinology. Includes reproduction control, hormonal regulation, differential fertility.

530 SOCIETY, ETHICS AND THE LIFE SCIENCES
(3-0) 3 hours credit. Prerequisite: College biology or consent of instructor.
An examination of the ethical and social implications of studies in those areas of the life sciences which affect public policy or action, i.e., incentives to slow population growth; behavioral control by brain surgery; definitions of death for organ donors.

531 FUNDAMENTALS OF LIFE SCIENCE
(3-0) 3 hours credit.
An introduction to modern biological concepts; designed as a foundation course for graduate students, a review of biological principles. Not for M.S. candidates in Biology.

532 DRUGS: THEIR SOCIAL IMPLICATIONS, ACTIONS AND EFFECTS
(3-0) 3 hours credit. Prerequisites: Organic chemistry and biology or consent of instructor.
A study of the behavioral effects and chemical actions of drugs in society. Lecture and demonstration.

533A MEDICAL LIFE SCIENCES I
(3-0) 3 hours credit. Prerequisite: An undergraduate course in biological science.
An examination of the origin, characteristics and function of life processes with special emphasis on the cell and subcellular units; a foundation course. Not for M.S. candidates in Biology.

533B MEDICAL LIFE SCIENCES II
(3-0) 3 hours credit. Prerequisite: BIOL 533A.
A course in organ physiology considering human body functions. Includes respiratory, skeletal, circulatory, nervous, and hormonal systems; a foundation course. Not for M.S. candidates in Biology.

534 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. It will include 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.

535 HEREDITY, EVOLUTION AND SOCIETY  
(3-0) 3 hours credit. Prerequisite: College biology or consent of instructor.
Study of individual variation and evolutionary change in relation to human thought, experience, cultural evolution, diversity, mating systems.

536 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.

537 RECENT DEVELOPMENTS IN LIFE SCIENCE  
(3-0) 3 hours credit. 
Studies of current trends in life science studies; lectures and readings in scientific literature.

538 TOPICS IN MODERN BIOLOGY: A GRADUATE COURSE FOR THE NON-BIOLOGIST  
(3-0) 3 hours credit. Prerequisite: Graduate standing or consent of instructor.
Survey of the more pertinent areas of biological research in relation to man including behavior control, genetic engineering, organ replacement.

539 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.

540 ENDOCRINOLOGY  
(3-3) 4 hours credit. Prerequisite: A course in vertebrate physiology. A consideration of the physiological effects of hormones on the organism in health and disease, together with a study of the gross and microscopic morphology of the glands of internal secretion.
541 COMPARATIVE VERTEBRATE PHYSIOLOGY
(3-4) 4 hours credit. Prerequisite: A course in physiology.
Comparative analysis of physiological mechanisms of adaptation among vertebrates.

560 INVERTEBRATE PHYSIOLOGY
(2-4) 3 hours credit. Prerequisites: A course in physiology and graduate standing or consent of instructor.
An investigation of the mechanisms of respiration, movement, ion and water regulation and hormonal integration in the invertebrates.

570 ENVIRONMENTAL PHYSIOLOGY
(2-3) 3 hours credit. Prerequisite: A course in physiology.
Lectures, reports and laboratory work on the physiological responses to heat, cold, light, social stimuli and atmospheric pressure in the vertebrate organisms.

580 POPULATION GENETICS
(2-3) 3 hours credit. Prerequisite: A course in introductory genetics.
An evolutionary approach to the study of the genetic system. Mutant and chromosomal variability, homologies, polymorphism, hybridization, heterosis.

582A BIOLOGY OF PARASITISM
(2-3) 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.

582B BIOLOGY OF PARASITISM
(3-4) 3 hours credit. Prerequisite: A laboratory course in Medical Microbiology; BIOL 582A is recommended as well.
The ecology of infectious diseases with emphasis on bacterial, viral, and fungal infections of man.

583 CYTOGENETICS
(2-3) 3 hours credit. Prerequisite: Courses in genetics, cytology or consent of instructor.
An analysis of chromosome structure and function in relation to Mendelian inheritance: role in evolution of crossing over, variations in chromosome structure and number.

584 BIOCHEMICAL GENETICS
(3-0) 3 hours credit. Prerequisite: Courses in genetics, general biochemistry (or microbial physiology) or consent of instructor. Molecular approach to structure, replication, mutation, and phenotypic expression of genetic material.

600 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.
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.

610, 620, 630 SPECIAL PROBLEMS
1 to 3 hours credit.
May be repeated for credit but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

631 TERRESTRIAL ECOLOGY
(2-4) 3 hours credit. Prerequisite: Ecology or consent of instructor. Interaction of terrestrial animals and plants with their environments; factors which contribute to population growth, control and dispersal of biotic communities.

641 MICROBIAL ECOLOGY
(3-4) 4 hours credit. Prerequisite: A course in microbiology or consent of instructor. A study of the mutual relationships between microorganisms and their environment, especially natural habitats of microorganisms (including normal human flora and pathogens), commensalism, parasitism, and opportunism in various microbial species.

642 CLINICAL LABORATORY HISTOLOGY AND CYTOLOGY
(2-4) 4 hours credit. Prerequisites: Laboratory courses in histology and in cytogenetics. Clinical applications of techniques in the microscopic analysis of blood, cells, tissues, and organs of the human body.

643 DIAGNOSTIC MICROBIOLOGY
(2-4) 4 hours credit. Prerequisites: A laboratory course in Medical Microbiology and consent of instructor. Principles and techniques of diagnostic and epidemiologic microbiology with applications in the clinical laboratory.

660 CELLULAR AND MOLECULAR BIOLOGY
(2-3) 3 hours credit. Prerequisites: A course in biology and in organic chemistry or consent of instructor. Molecular organization and function of cells and subcellular units, regulation of metabolism, chromosome structure, and active transport.

662 CELLULAR 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.

663 MICROBIAL PHYSIOLOGY AND ENERGETICS
(3-0) 3 hours credit. Prerequisites: Courses in biology, organic chemistry or consent of instructor. Chemistry and metabolism of cellular constituents, especially carbohydrates, proteins and lipids, using microorganisms as subject matter.

665 INDUSTRIAL MICROBIOLOGY
(2-3) 3 hours credit. Prerequisite: A course in introductory microbiology or consent of instructor.
A study of fermentations of industrial importance, food processing, and quality control.

675 RADIATION BIOLOGY
(2-3) 3 hours credit. Prerequisites: A course in biology, in organic chemistry, and in physics.
Interactions of ionizing ultraviolet and visible radiations with matter; biological effects; cellular repair of radiation damage; biological photo-receptors.

681 ANIMAL BEHAVIOR
(2-3) 3 hours credit. Prerequisite: A course in 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.

691 MASTER'S THESIS
(3-0) 3 hours credit.
May be repeated for credit but not more than 6 hours will apply to the Master's degree. Permission of the instructor is required. Enrollment in BIOL 691 is required each term the thesis is in progress.

692 INFORMATION RETRIEVAL: BIOMEDICAL APPLICATIONS
(3-0) 3 hours credit. Prerequisites: Biostatistics, MATH 538 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.
MASTER OF SCIENCE DEGREE IN MATHEMATICS AND SYSTEMS DESIGN

The graduate program in Mathematics 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, will be able to select a degree program ranging from classical mathematics to a computer science orientation. Additionally the student will be allowed the option of supplementing his mathematics and computer science courses with approved courses from other disciplines.

Some or all of the following foundation courses may be required as conditions for students whose backgrounds in either mathematics or computer science are insufficient to permit full admission to the graduate degree program.

- MATH 530 A,B Introduction to Computer Science
- MATH 531 A,B Advanced Calculus
- MATH 533 Introduction to Abstract Algebra
- MATH 534 Introduction to Linear Algebra and Matrix Theory
- MATH 535 Applications of Mathematics
- MATH 538 A Introduction to Probability and Statistics

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 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 will be required to successfully complete 36 semester hours of credit in addition to complying with the University-Wide Requirements for
the Master's Degree. These 36 hours will be subject to the follow-
ing conditions:

1. A minimum of 18 hours of organized course work must be chosen from non-foundation courses within the Division of Mathematics and Systems Design.

2. Each student in the Master's program is required to complete 3 hours of seminar in addition to the formal class hours within the Division. These seminars 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 foundation courses within the Division of Mathematics and Systems Design may be included in the degree program.

COURSE DESCRIPTIONS

MATHEMATICS AND SYSTEMS DESIGN
(MATH)

530A INTRODUCTION TO COMPUTER SCIENCE
(3-0) 3 hours credit.
An introduction to the properties of digital computers and to the design and implementation of algorithms.

530B INTRODUCTION TO COMPUTER SCIENCE
(3-0) 3 hours credit. Prerequisite: MATH 530A.
An introduction to data structures and to the analysis of algorithm efficiency. Introduction to list processing.

531A ADVANCED CALCULUS
(3-0) 3 hours credit. Prerequisite: Undergraduate calculus sequence.
A discussion of the algebraic and topological properties of the real numbers and n-dimensional Euclidean space.

531B ADVANCED CALCULUS
(3-0) 3 hours credit. Prerequisite: MATH 531A.
An in-depth study of the calculus of functions of several variables.

533 INTRODUCTION TO ABSTRACT ALGEBRA
(3-0) 3 hours credit. Prerequisite: Consent of instructor.
An introduction to algebraic structures.

534 INTRODUCTION TO LINEAR ALGEBRA AND MATRIX THEORY
(3-0) 3 hours credit.
A study of the algebraic properties of matrices and their application.

535 APPLICATIONS OF MATHEMATICS
(3-0) 3 hours credit. Prerequisite: Consent of instructor.
Application of linear algebra, and analysis to the natural, social, and physical sciences.

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536A INTRODUCTION TO TOPOLOGY
(3-0) 3 hours credit. Prerequisite: Undergraduate calculus.
An introductory course in metric space topology.

536B INTRODUCTION TO TOPOLOGY
(3-0) 3 hours credit. Prerequisite: MATH 536A.
An introductory course in concepts from general topological spaces.

537 APPLIED STATISTICS
(3-0) 3 hours credit.
Emphasis on the methods of statistics and their applications. Intended for non-mathematics majors.

538A INTRODUCTION TO PROBABILITY AND STATISTICS
(3-0) 3 hours credit. Prerequisite: Undergraduate calculus sequence.
An introduction to probability and statistics with applications.

538B INTRODUCTION TO MATHEMATICAL STATISTICS
(3-0) 3 hours credit. Prerequisite: MATH 538A.
Mathematical methods, testing of hypotheses, confidence intervals, and the Neyman-Pearson lemma.

561A STRUCTURE OF PROGRAMMING LANGUAGES
(3-0) 3 hours credit. Prerequisite: MATH 530B or the equivalent.
Study of the features of a variety of programming languages including list processing languages.

561B STRUCTURE OF PROGRAMMING LANGUAGES
(3-0) 3 hours credit. Prerequisite: MATH 561A or the equivalent.
An introduction to the design and implementation of assemblers and compilers.

562 PROGRAMMING TECHNIQUES AND FILE DESIGN AND MANIPULATION
(3-0) 3 hours credit. Prerequisite: MATH 530A,B or the equivalent.
Types of file access techniques; data collection and preparation; program system documentation and the flow of information from input to on-line real time information systems.

563 THEORY OF ALGORITHMS
(3-0) 3 hours credit. Prerequisite: MATH 561B.
Introduction to the rigorous concepts of algorithms and the relationship between algorithms and computing machines.

564 ASSEMBLERS AND COMPILERS
(3-0) 3 hours credit. Prerequisite: MATH 561B.
A study of current methods in the design and implementation of assemblers and compilers.

565 FORMAL GRAMMARS AND PROGRAMMING LANGUAGES
(3-0) 3 hours credit. Prerequisites: MATH 561B and consent of instructor.
Models of computation, formal definition of syntax and semantics for programming languages.

566 INFORMATION RETRIEVAL SYSTEMS
(3-0) 3 hours credit. Prerequisites: MATH 530A,B.
Programming languages for retrieval and evaluation of retrieval effectiveness.

567A NUMERICAL ANALYSIS
(3-0) 3 hours credit. Prerequisite: Graduate standing or consent of instructor.
Analysis of numerical methods. Topics include solutions of non-linear equations, curve-fitting, numerical integration.

567B NUMERICAL ANALYSIS
(3-0) 3 hours credit. Prerequisite: MATH 567A or the equivalent.
Numerical methods for solving ordinary and partial differential equations; optimization methods.

568 SIMULATION TECHNIQUES
(3-0) 3 hours credit. Prerequisites: MATH 530A,B or the equivalent.
A study of the methods available to stimulate realistic and theoretical situations and models from business, the physical and natural sciences, and mathematics.

569A APPLIED ANALYSIS
(3-0) 3 hours credit. Prerequisite: Consent of instructor.
A study of classical topics in mathematical analysis which are applicable to the Sciences and Engineering.

569B APPLIED ANALYSIS
(3-0) 3 hours credit. Prerequisite: MATH 569A.
A study of modern aspects of applied mathematics.

570A THEORY OF FUNCTIONS OF A REAL VARIABLE
(3-0) 3 hours credit. Prerequisite: MATH 531B or the equivalent.
Lebesgue measure and integration theory.

570B THEORY OF FUNCTIONS OF A REAL VARIABLE
(3-0) 3 hours credit. Prerequisite: MATH 570A.
Further development of Lebesgue measure and integration theory, metric space topology, and elementary Banach space theory.

571A THEORY OF FUNCTIONS OF A COMPLEX VARIABLE
(3-0) 3 hours credit. Prerequisite: MATH 531B.
Complex integration, Cauchy's theorem, calculus of residues, power series.

571B THEORY OF FUNCTIONS OF A COMPLEX VARIABLE
(3-0) 3 hours credit. Prerequisite: MATH 571A.
Infinite products, entire functions, Picard's theorem, Riemann mapping theorem, functions of several complex variables.

575A ORDINARY DIFFERENTIAL EQUATIONS
(3-0) 3 hours credit. Prerequisite: MATH 531B, MATH 534 or the equivalent.
Linear systems and Laplace transforms. Existence, uniqueness, and stability theorems for non-linear systems.

575B ORDINARY DIFFERENTIAL EQUATIONS
(3-0) 3 hours credit. Prerequisites: MATH 575A and MATH 570A.
Analysis of singular points, Sturm-Liouville theorem, asymptotic expansions, selected topics from the qualitative theory of linear and non-linear systems.
576A PARTIAL DIFFERENTIAL EQUATIONS
(3-0) 3 hours credit. Prerequisites: MATH 531A,B and MATH 534 or the equivalent.
Classical theory of initial value and boundary value problems for partial differential equations.

576B PARTIAL DIFFERENTIAL EQUATIONS
(3-0) 3 hours credit. Prerequisites: MATH 576A and MATH 570A.
Modern aspects of the theory of partial differential equations.

581A GENERAL TOPOLOGY
(3-0) 3 hours credit. Prerequisite: Consent of instructor.
Topological spaces, metric spaces, continua, plane topology.

581B GENERAL TOPOLOGY
(3-0) 3 hours credit. Prerequisite: MATH 581A.
Continuation of MATH 581A, introductory algebraic topology, introduction to topology of manifolds.

590A APPLIED ALGEBRA
(3-0) 3 hours credit. Prerequisite: MATH 533 or the equivalent.
Algebraic structures may include groups, rings, fields, Galois theory, ideal theory, and representations of groups.

590B APPLIED ALGEBRA
(3-0) 3 hours credit. Prerequisite: MATH 590A or the equivalent.
Ideas and techniques of modern algebra applied to the area of computer science.

591A LINEAR ALGEBRA AND MATRIX THEORY
(3-0) 3 hours credit. Prerequisite: MATH 534 or the equivalent.
A study of linear algebraic structures and algebraic properties of matrices.

591B LINEAR ALGEBRA AND MATRIX THEORY
(3-0) 3 hours credit. Prerequisite: MATH 591A or the equivalent.
A continuation of MATH 591A, linear transformations, and applications.

600 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.
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.

610, 620, 630 SPECIAL PROBLEMS
1 to 3 hours credit.
May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be
completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

611, 621, 631 SPECIAL SEMINARS
1 to 3 hours credit.
May be repeated but not more than three hours will apply to a Master's degree. Three hours are required for a Master's degree.

661A OPERATIONS RESEARCH
(3-0) 3 hours credit. Prerequisites: MATH 538A,B or the equivalent.
Deterministic methods of operations research, including linear and non-linear programming, dynamic programming, network analysis, introduction to inventory theory.

661B OPERATIONS RESEARCH
(3-0) 3 hours credit. Prerequisite: MATH 661A.
Stochastic Models of Operations Research including queuing theory, inventory theory, game theory, and simulation.

670A PROBABILITY AND STATISTICS
(3-0) 3 hours credit. Prerequisites: MATH 538A,B.
Axioms of probability, random variables and their distributions, mathematical techniques.

670B MATHEMATICAL STATISTICS AND INERENCE
(3-0) 3 hours credit. Prerequisite: MATH 670A.
Distributions of functions of random variables, tests of hypotheses, point and interval estimation.

671A ADVANCED PROBABILITY
(3-0) 3 hours credit. Prerequisites: MATH 538A, MATH 670A,B and MATH 570.
Distribution functions, random variables, expectation, independence, convergence concepts.

671B ADVANCED PROBABILITY
(3-0) 3 hours credit. Prerequisite: MATH 671A.
Law of large number, central limit theorem, conditioning, martingales.

672 STOCHASTIC PROCESSES
(3-0) 3 hours credit. Prerequisites: MATH 534 and MATH 671A.
Random walks, recurrent events, Markov chains, continuous time processes.

673 ANALYSIS OF VARIANCE
(3-0) 3 hours credit. Prerequisites: MATH 670A,B and MATH 534 or consent of instructor.
Fixed effects models, random effects models, analysis of covariance, effects of departures from assumptions.

674 MULTIVARIATE STATISTICAL ANALYSIS
(3-0) 3 hours credit. Prerequisites: MATH 670A,B and MATH 534 or consent of instructor.
Multidimensional Gaussian and Wishart distributions, principle components, factor analysis.

675 NON-PARAMETRIC STATISTICS
(3-0) 3 hours credit. Prerequisite: MATH 670A,B or consent of instructor.
Methods and theory of non-parametric statistics, order statistics, critical points, tolerance regions.

676 THEORY OF LINEAR STATISTICAL MODELS  
(3-0) 3 hours credit. Prerequisites: MATH 670A,B and MATH 534 or consent of instructor.  
Theory of the general linear model and the general linear hypothesis, least squares estimators, Gauss-Markov theorem, hypothesis testing.

677 EXPERIMENTAL DESIGN  
(3-0) 3 hours credit. Prerequisites: MATH 670A,B.  
Techniques of design, factorial and latin square design, hierarchical classification models, split plot designs, incomplete blocks.

678 ADVANCED INFERENCE  
(3-0) 3 hours credit. Prerequisites: MATH 670A,B or consent of instructor.  
Topics in inference including sufficiency, completeness, hypothesis testing theory.
COURSE DESCRIPTIONS

EARTH SCIENCE

(ERTH)

532 FUNDAMENTAL EARTH SCIENCE STUDIES
(3-0) 3 hours credit.
Study of the solid earth, ocean and atmosphere, with emphasis on North America, its environmental history and effects on mankind.

533 FIELD GEOLOGY
(2-3) 3 hours credit. Prerequisite: A course in general geology or consent of instructor.
An introductory course in field geology; methods of mapping, construction of planimetric and topographic maps, use of aerial photographs and instruction in basic surveying techniques.

534 MINERALS AND ROCKS
(2-3) 3 hours credit. Prerequisite: A course in geology or consent of instructor.
Introduction to crystallography and crystal chemistry. Physical properties and identification of the more common minerals. Origin, occurrence and identification of major rock types.

535 OCEANOGRAPHY
(2-3) 3 hours credit. Prerequisite: General geology or consent of instructor.
A general survey of the processes in the oceans, nature of the ocean basins, current patterns and element distribution.

536 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.

537 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.

600 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.
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.

610, 620, 630 SPECIAL PROBLEMS
1 to 3 hours credit.
May be repeated for credit but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.

COURSE DESCRIPTIONS

PHYSICAL SCIENCE (PHSC)

530A PHYSICAL SCIENCE STUDIES I
(3-0) 3 hours credit.
A non-calculus approach to principles of physical science dealing with the energy requirements of chemical and physical changes.

530B PHYSICAL SCIENCE STUDIES II
(3-0) 3 hours credit.
A continuation of 530A. The relationship of energy to human living standards and to common chemical and physical phenomena.

531 FUTURE ENERGY SOURCES
(3-0) 3 hours credit. Prerequisite: One year introductory undergraduate physics or consent of instructor.
Introduction to the basic concept of energy, its forms and applications; orientation to present and predicted energy sources and requirements.

533 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.

535 RECENT DEVELOPMENTS IN PHYSICAL SCIENCE
(3-0) 3 hours credit.
Studies of recent developments in physical science. A course intended for individuals teaching chemistry, earth science or physics.

536 PHYSICS FOR BIOLOGY AND MEDICAL STUDENTS
(3-0) 3 hours credit. Prerequisites: General physics and college algebra.
Detailed treatment of principles most applicable to biology and medicine: mechanics, fluid flow, basic properties of gases and liquids, heat transfer, simple circuits, bio-membranes, acoustics, and optics.

537 THE CHEMICAL ENVIRONMENT
(3-0) 3 hours credit. Prerequisite: One year of chemistry or consent of instructor.
For non-chemists, a detailed study of selected reactions and their environmental effects.

538 CHEMISTRY OF URBAN WASTE MANAGEMENT
(3-0) 3 hours credit. Prerequisite: A course in organic chemistry or consent of instructor.
A study of the theory and practice of solid, liquid and gas waste treatment and disposal.

600 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.

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.

610, 620, 630 SPECIAL PROBLEMS
1 to 3 hours credit.

May be repeated but not more than 6 hours will apply to a Master's degree. All work required for credit must be submitted to the instructor two weeks prior to the final examination period and must be completed no later than one year from the date of enrollment in the course. Requires permission of the instructor.
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 relation-
ship 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 non-resident 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* 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

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*The reference to the 22nd birthday should be interpreted as the 19th birthday.
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. If such 12 months' residence, however, can be shown not to have been for the purpose of establishing legal residence in the state but to have been for some other purpose, the individual is not entitled to be classified as a resident. Any student registering in an educational institution prior to having resided in the state for 12 months 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 including, but 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, 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.

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 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 children of a member

*Subparagraph (d), Section 54.058 has been repealed by House Bill 736, 63rd Legislature, effective August 27, 1973.
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 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 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 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. Nonresident Military Personnel* Attending College Under Contract
Subsection (d) provides that nonresident military personnel attending an institution of higher education under a contract with any branch of the armed forces where the tuition is paid in full under the provisions of such contract shall be charged nonresident tuition even though such military personnel may be assigned to duty pursuant to military orders at an institution of higher education.

D. 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

*Subparagraph (d), Section 54.058 has been repealed by House Bill 736, 63rd Legislature, effective August 27, 1973.
to the United States Government under the provisions of any federal law or regulation authorizing educational or training benefits for veterans.

E. 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.

F. 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 non-resident student unless, (1) the individual was a legal resident of Texas at the time of entry into military service and has not re-
linguished 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 exemp-
tion 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 compe-
tition 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.

Citizens of any country other than the United States of America who are in this country on a student visa or a visa other than one entitling them to immigrant status and who enroll in an institution of higher education covered by Section 54.051 of the Texas Education Code shall be classified as "... students who are citizens of any country other than the United States of America ..." for purposes of Section 1(a)(7) of Article 2654c, V.T.C.S. Such a student who is in this country on an immigrant visa can be classified as a resident student if he has resided in the state for a period of 12 months under circumstances indicating his intention to reside permanently in Texas and not merely to complete his education.
To this extent a citizen of any country other than the United States of America residing in Texas on an immigrant visa shall be in no different position than the citizen of the United States who has been a resident of another state. A citizen of any country other than the United States of America residing in the United States of America in a State other than Texas on an immigrant visa and has established his intent to reside permanently in such other State shall be classified as a nonresident.

IX. Student Responsibilities
A. Student Responsibility to Register Under Proper Classification
The responsibility of registering under the proper residence classification is that of the student, and if there is any question of his right to classification as a resident of Texas, it is his obligation, prior to or at the time of his registration, to raise the question with the administrative officials of the institution in which he is registering and have such officially determined.

B. Notification Upon Becoming a Nonresident
Every student who is classified as a resident student but who becomes a nonresident at any time by virtue of a change of legal residence by his own action or by the person controlling his domicile is required to notify the proper administrative officials of his institution at once.

X. Official Change of Residence Status
A. Application for Reclassification
Every student classified as a nonresident student shall be considered to retain that status until such time as he shall have made written application for reclassification in the form prescribed by the institution and shall have been officially reclassified in writing as a resident of Texas by the proper administrative officers of the institution.

B. Reclassification as a Nonresident
Every person who has been classified as a resident of Texas shall be reclassified as a nonresident student whenever he shall report, or there is found to exist, circumstances indicating a change in legal residence to another state. If any student who has been classified as a resident of Texas shall be found to have been erroneously so classified, he shall be reclassified as a nonresident
and shall be required to pay the difference between the resident and nonresident fees for such semesters in which he was so erroneously classified. In addition, he shall be required to pay back all monies borrowed from the Texas Opportunity Plan Fund.

C. Reclassification as a Resident
If any student has been erroneously classified as a nonresident student and subsequently proves to the satisfaction of the appropriate officials of an institution of higher education that he should have been classified as a resident student, he shall be reclassified as a resident of Texas and shall be entitled to a refund of the difference between the resident and nonresident fees for the semester in which he was so erroneously classified.

XI. Penalties
Statute: Section 54.053 The governing board of each institution required by this Act to charge a nonresident tuition or registration fee is subject to the rules, regulations, and interpretations issued by the Coordinating Board, Texas College and University System, for the administration of the nonresident tuition provisions of this Act. The rules, regulations, and interpretations promulgated by the Coordinating Board shall be furnished to the presidents or administrative heads of all Texas public senior and junior colleges and universities.

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

Student Compliance with Institutional Rules and Regulations
Each institution has been authorized by statute to assess and collect from each nonresident student failing to comply with the provisions of the tuition statute and with these interpretations concerning nonresident fees a penalty not to exceed $10.00 a semester. In addition, if a student has obtained residence classification by virtue of deliberate concealment of facts, or misrepresentation of fact, he may be subject to appropriate disciplinary action, in accordance with the rules and regulations that may be adopted by the governing 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 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 two copies of Certification Plan.

3. Student gives one copy of Certification Plan to advisor, and retains one copy for personal use.

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)


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)

Options:

A. General: Classroom Teaching
   1. 15 semester hours in Art, Biology, Economics, English, Geography, History, Mathematics, Spanish or Business.
   2. BCBL 532
   3. EDUC 530
   4. EDUC 561, or EDUC 565, or ECED 563
   5. Any 6 semester hours for elementary teachers but preferably ECED 565 or ECED 581.

B. Bicultural-Bilingual Concentration
   1. BCBL 530, BCBL 532, BCBL 571, BCBL 573, BCBL 575, BCBL elective.
   2. EDUC 530
   3. EDUC 561, or EDUC 565, or ECED 563
   4. Any 6 semester hours for elementary teachers but preferably ECED 565 or ECED 581.

C. Reading Concentration
   1. ECED 570, ECED 571, ECED 572, ECED 573, SED 570
   2. BCBL 532
   3. EDUC 530
   4. EDUC 561, or EDUC 565, or ECED 563
   5. Any 6 semester hours for elementary teachers but preferably ECED 565 or ECED 581.

D. Early Childhood Concentration
   1. CURR 565, CURR 568, ECED 578, ECED 595
   2. BCBL 532, ECED 597
   3. EDUC 530
   4. EDUC 561, or EDUC 565, or ECED 563
   5. Any 6 semester hours for elementary teachers but preferably ECED 565 or ECED 581.
E. Kindergarten Endorsement Concentration
1. ECED 561, ECED 563, ECED 575
2. CURR 561 or ECED 599
3. BCBL 532
4. 3 semester hours elective. Consent of advisor.
5. EDUC 530
6. EDUC 561, or EDUC 565, or ECED 563
7. Any 6 semester hours for elementary teachers but preferably ECED 565 or ECED 581.

Kindergarten Endorsement Only (12 semester hours)
1. ECED 561, ECED 563, ECED 575
2. CURR 561 or ECED 599

Professional Secondary Certificate (30 semester hours)
Options:
A. General: Classroom Teaching
1. 15 semester hours in Art, Biology, Economics, English, Geography, History, Mathematics, Spanish or Business.
2. BCBL 532
3. EDUC 530
4. EDUC 561 or EDUC 565
5. Any 6 semester hours for secondary teachers but preferably CURR 571, CURR 591 or CURR 595.

B. Bicultural-Bilingual Concentration
1. BCBL 530, BCBL 532, BCBL 571, BCBL 573, BCBL 575, BCBL elective
2. EDUC 530
3. EDUC 561 or EDUC 565
4. Any 6 semester hours for secondary teachers but preferably CURR 571, CURR 591 or CURR 595.

C. Reading Concentration
1. ECED 570, ECED 571, ECED 572, ECED 573, SED 570
2. BCBL 532
3. EDUC 530
4. EDUC 561 or EDUC 565
5. Any 6 semester hours for secondary teachers
but preferably CURR 571, CURR 591 or CURR 595

Professional Supervisor's Certificate (30 semester hours)
1. CURR 660, CURR 661, CURR 662
2. BCBL 532, EDUC 530, EDUC 581
3. 3 semester hours from CURR 561, CURR 562, CURR 571, CURR 581, CURR 591
4. 9 semester hours with consent of advisor.

Professional Administrator's Certificate—Mid-Management
(45 semester hours including a Master's degree)
1. EDMG 530, EDMG 533, CURR 660, EDUC 530, EDUC 581, EDUC 561 or EDUC 565
2. BCBL 532
3. 6 semester hours electives. Consent of advisor.
4. EDUC 571, EDMG 535, EDMG 561, EDMG 610-630, EDMG 571 or EDMG 575
5. EDMG 660A

Professional Administrator's Certificate—Superintendent
(15 semester hours in addition to Mid-Management Certificate)
1. EDMG 538, EDMG 581, EDMG 590, EDUC 583
2. EDMG 660B
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DIRECTORY FOR CORRESPONDENCE

Requests for information should be directed to the offices shown below. The University's address is: The University of Texas at San Antonio, 4242 Piedras Drive East, Suite 250, San Antonio, Texas 78284. The telephone number is (512) 732-2141.

Academic Degree Programs
and Courses ...............................................College Dean Admission
(Undergraduate and graduate) .............Director of Admissions Continuing Education ...............Dean of Continuing Education Financial Aids, Loans or Scholarships ..................Office of Student Financial Aids Financial Matters ......................Office of Business Affairs General Information ......................Director of Admissions International Students ..................Director of Admissions Registration ..................................Registrar Residency ........................................Registrar Student Employment ........ Office of Student Financial Aids Student Services ..................................Dean of Students Teacher Certification Program ......Office of Teacher Certification and Placement
Transcripts .............................................Registrar Veterans' Affairs ..................................Registrar