

1994

## UTPA Catalog 1994-1996

University of Texas Pan American

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# THE UNIVERSITY OF TEXAS ~ PAN AMERICAN

THE UNIVERSITY OF TEXAS-PAN AMERICAN

WAS CREATED IN 1927 TO FULFILL A

MISSION: PROVIDING OPPORTUNITY,

THROUGH EDUCATION, TO THE YOUNG

MEN AND WOMEN OF THE LOWER

RIO GRANDE VALLEY.

THAT MISSION ENDURES

TODAY.



1 9 9 4 ~ 1 9 9 6 C A T A L O G

# The University of Texas-Pan American 1994-96 Catalog

The University of Texas-Pan American is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools, and certain of its programs are separately accredited or approved by the

*Texas Education Agency*

*American Assembly of Collegiate Schools of Business*

*The Council on Social Work Education*

*American Dietetic Association*

*Board of Nurse Examiners for the State of Texas*

*The National League for Nursing*

*Committee on Allied Health Education and Accreditation of the*

*American Medical Association, as recommended by the*

*National Accrediting Agency for Clinical Laboratory Sciences*

*American Speech-Language-Hearing Association*

The University of Texas-Pan American is a member of the

*American Association of State Colleges and Universities*

*American Council on Education*

*American Association of Colleges for Teacher Education*

*Southern Association of Colleges and Schools*

*American Assembly of Collegiate Schools of Business*

*Council for Advancement and Support of Education*

*Hispanic Association of Colleges and Universities*

**This catalog was prepared on the basis of the best information available at the time. The University of Texas-Pan American reserves the right to change any information, including statement of fees, course offerings, and admission and graduation deadlines and requirements without notice or obligation, in keeping with the policies of the Board of Regents and in conformance with the laws of the State of Texas.**

# THE 1994-96 CATALOG

The Texas Legislature passed legislation (Senate Bill 47) effective Sept. 1, 1989, that transferred control and management of Pan American University to the Board of Regents of The University of Texas System. The legislation renamed Pan American University as The University of Texas-Pan American. As part of The University of Texas System, The University of Texas-Pan American will operate subject to *Rules and Regulations* of the Board of Regents of The University of Texas System.

This catalog is a general information publication only. It is not intended to nor does it contain all regulations that relate to students. The provisions of this catalog do not constitute a contract, expressed or implied, between any applicant, student or faculty member of The University of Texas-Pan American or The University of Texas System.

The University of Texas-Pan American reserves the right to withdraw courses at any time, to change fees or tuition, calendar, curriculum, degree requirements, graduation procedures and any other requirements affecting students. Changes will become effective whenever officially implemented by proper authorities and will apply to both prospective students and those already enrolled.

## Non-Discrimination Policy Statement

The University of Texas-Pan American declares and reaffirms a policy of administering all of its educational programs and related supporting services and benefits in a manner which does not discriminate because of a student's or prospective student's race, color, creed or religion, sex, national origin, age, veteran's status, disability, or other characteristics which lawfully cannot be the basis for provision of such services. These programs, services and benefits include, but are not limited to, admission, class assignments, scholarships and other financial and employment assistance, counseling, physical education and recreational services, and the membership practices of registered student organizations.

Pursuant to this policy statement, The University of Texas-Pan American will undertake a continuing program of compliance with all federal, state and local laws relating to equal educational opportunity and affirmative action, specifically those addressing the obligations of the institution under Title VI of the Civil Rights Act of 1964 as amended, Title IX of the Educational Amendments of 1972, Sections 503 and 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act of 1990.

To the extent provided by applicable law, no person shall be excluded from participation in, denied the benefits of, or be subject to discrimination under any program or activity sponsored or conducted by the System or any of its component institutions on the basis of race, color, national origin, religion, sex, age, veteran status, or disability.

Inquiries or complaints may be directed to the immediate supervisor or to the Compliance Officer in Room 335, Administration Building, telephone 381-2100; the Chair of the department; or the Dean of Students in Room 104 of the University Center, 381-2147. Inquiries concerning ADA should be directed to the Coordinator of Services for Individuals with Disabilities, Student Services Building, Room 618, telephone 381-2585.

Individuals who believe they have been discriminated against in violation of any of the non-discrimination policies may, after an initial interview with the appropriate compliance officer named above, initiate grievance proceedings in accordance with the provisions and procedures stipulated under "Grievance and Appeals Procedures" found in the *Handbook of Operating Procedures*.

Individuals are protected from coercion, intimidation, interference or discrimination for filing a complaint or assisting in an investigation under the Acts.

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2. Last day to change to Non-Credit.

**October 3, Monday**

Deadline for filing completed signed thesis with Dean of major school for students expecting to receive a master's degree in December 1994.

**November 23, Wednesday**

1. Last day to officially drop or withdraw through the Office of Admissions and Records.
2. Dining Service closes at 6:30 p.m.
3. Residence halls close 6:30 p.m.

**November 24-26, inclusive**

Thanksgiving.

**December 8-9, inclusive**

1. Limited departmental final examinations.
2. Dead Days.

**December 10-15, inclusive.**

First semester final examinations.

**December 15, Thursday**

1. Dining Service closes.
2. Residence halls close.

**December 16, Friday**

1. Grade reports due in Office of Admissions and Records by 10 a.m.
2. End of first semester.

**December 17, Saturday**

Commencement exercises.

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## **SECOND SEMESTER 1994-95 (Spring)**

Registration for any given semester begins in the preceding semester. For example, registration for the Spring semester for currently enrolled students and for new students who meet the early application deadline will begin in the Fall.

**September 1, 1994, Thursday**

Application for admission and supporting documents (transcripts of credits and ACT and TASP test results for freshmen, GRE test scores for graduate students, GMAT scores for graduate business students) must be received by the Office of Admissions and Records by this date to ensure processing for telephone registration for the Spring semester. All first-time UT Pan American undergraduate students must apply for admission and complete all test requirements by the deadline. All students applying after deadline will register late.

**October 24 - November 25 (tentative)**

Telephone registration by appointment.

**November 14, 1994, Monday**

Late application deadline. Application for admission and supporting documents (transcript of credits and ACT and TASP test results for freshmen, GRE test scores for graduate students, GMAT scores for graduate business students) must be received by the Office of Admissions and Records by this date to insure processing for admission to the Spring semester. Prospective students should file documents as early as possible before this deadline. All first-time UT Pan American undergraduate students must apply for admission and complete all test requirements by deadline. Applications received after deadline will be processed for the next semester.

**January 10-11 (tentative)**

Registration by appointment.

**January 12, Thursday**

1. Dining service open for breakfast.
2. Residence halls open.

**January 13, Friday**

Scholarship application deadline for 1995-96

**January 14, Saturday**

Residence halls open for pre-registered (returning) students.

**January 16, Monday**

1. Classes begin.
2. Schedule changes.

3. Deadline for filing Application for Degree form with the Office of Admissions and Records for students expecting to graduate in August 1995.

**January 19, Thursday**

Last day for schedule change.

**January 31, Tuesday**

Twelfth class day.

**February 14, Tuesday**

1. Last day to drop a course or to withdraw from the University without having a grade recorded.
2. Last day to change to Non-Credit.

**February 15, Wednesday**

Deadline for submitting Financial Aid application for Summer 1995 awards.

**March 6, Monday**

Deadline for filing completed signed thesis with the Dean of major school for students expecting to receive a master's degree in May 1995.

**March 10, Friday**

1. Dining service closes.
2. Residence halls close.

**March 13-17, inclusive**

Spring Break.

**March 19, Sunday**

Residence halls re-open at noon.

**April 3, Monday**

Deadline for filing an Application for Degree form with the Office of Admissions and Records for students expecting to graduate in December 1995.

**April 14-15**

Easter holidays.

**April 14, Friday**

Priority deadline for submission of Financial Aid application for Fall Semester 1995-96 awards.

**April 21, Friday**

Last day to officially drop or withdraw through the Office of Admissions and Records.

**May 4-5, inclusive**

1. Limited departmental final examinations.
2. Dead Days.

**May 6-11, inclusive**

Second semester final examinations.

**May 11, Thursday**

1. Dining service closes.
2. Residence halls close.

**May 12, Friday**

Grade reports due in Office of Admissions and Records by 10 a.m.

**May 13, Saturday**

Commencement exercises.

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## SUMMER SESSIONS 1995

Registration for any given semester begins in the preceding semester. For example, registration for the spring semester for currently enrolled students and for new students who meet the early application deadline will begin in the Fall.

**February 1, 1995, Wednesday**

Application for admission and supporting documents (transcripts of credits and ACT and TASP test results for freshmen, GRE test scores for graduate students, GMAT scores for graduate business students) must be received by the Office of Admissions and Records by this date to ensure processing for telephone registration for both Summer sessions. All first-time UT Pan American undergraduate students must apply for admission and complete all test requirements by the deadline. All students applying after deadline will register late.

**March 27 - April 28 (tentative)**

Telephone registration by appointment for Summer I and Summer II.

**April 17, Monday**

Late application deadline. Application for admission and supporting documents (transcript of credits and ACT and TASP test results for freshmen, GRE test scores for graduate students, GMAT scores for graduate business students) must be received by the Office of Admissions and Records by this date to insure processing for admission to the Summer sessions. Prospective students should file documents as early as possible before this deadline.

All first-time UT Pan American undergraduate students must apply for admission and complete all test requirements by deadline. Applications received after deadline will be processed for the next semester.

**May 5, Friday**

Late application deadline for admission and supporting documents (transcripts of credits and ACT and TASP test results for freshmen, GRE test scores for graduate students, GMAT scores for graduate business students) must be received by the Office of Admissions and Records by this date to ensure processing for admission to the Summer II session. All first-time UT Pan American undergraduate students must apply for admission and complete all test requirements by the deadline.

**June 1, Thursday**

1. Residence halls open at 9 a.m.
2. Dining service opens for lunch.

**June 2, Friday**

Registration by appointment for first summer session.

**June 5, Monday**

Classes begin.

**June 7, Wednesday**

Last day to make schedule changes.

**June 8, Thursday**

Fourth class day.

**June 12, Monday**

Deadline for filing completed and signed thesis with the Dean of major school for students expecting to graduate in August 1995.

**June 14, Wednesday**

Last day to drop or withdraw without having a grade recorded.

**June 28, Wednesday**

Last day to officially drop or withdraw through the Office of Admissions and Records.

**July 4, Tuesday**

Independence Day. No classes.

**July 10, Monday**

1. First term final examinations.
2. Dining service closes at 6:30 p.m. for those students not returning for the second summer session.
3. Residence halls close at 6:30 p.m. for those students not returning for the second summer session.

**July 11, Tuesday**

Registration by appointment for second summer session.

**July 12, Wednesday**

First Summer grade reports due in Office of Admissions and Records by 10 a.m.

**July 13, Thursday**

Classes begin for second summer session.

**July 17, Monday**

Last day to make schedule changes.

**July 18, Tuesday**

Fourth class day.

**July 24, Monday**

Last day to drop or withdraw without having a grade recorded.

**August 7, Monday**

Last day to officially drop or withdraw through the Office of Admissions and Records.

**August 16, Wednesday**

1. Second term final examinations.
2. Dining service closes at 6:30 p.m.
3. Residence halls close at 6:30 p.m.

**August 17, Thursday**

Grade reports due in Office of Admissions and Records by 10 a.m.

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# THE UNIVERSITY OF TEXAS-PAN AMERICAN

## CALENDAR 1995-96

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Dates and deadlines for applications for student loans, scholarships or other financial aid are set in the Financial Aid office and are listed in the Financial Aid section of this bulletin.

For ACT, TASP, GRE, GMAT and other test information contact the Testing Office.

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### FIRST SEMESTER 1995-96 (Fall)

Registration for any given semester begins in the preceding semester. For example, registration for the Spring semester for currently enrolled students and for new students who meet the early application deadline will begin in the Fall.

#### February 1, 1995, Wednesday

Application for admission and supporting documents (transcripts of credits and ACT and TASP test results for freshmen, GRE test scores for graduate students, GMAT scores for graduate business students) must be received by the Office of Admissions and Records by this date to ensure processing for telephone registration for the Fall semester. All first-time UT Pan American undergraduate students must apply for admission and complete all test requirements by the deadline. All students applying after deadline will register late.

#### March 27-April 28 (tentative)

Telephone registration by appointment.

#### July 17, Monday

Late application deadline. Application for admission and supporting documents (transcript of credits and ACT and TASP test results for freshmen, GRE test scores for graduate students, GMAT scores for graduate business students) must be received by the Office of Admissions and Records by this date to insure processing for admission to the Fall semester. Prospective students should file documents as early as possible before this deadline.

All first-time UT Pan American undergraduate students must apply for admission and complete all test requirements by deadline. Applications received after deadline will be processed for the next semester.

#### August 22-23 (tentative)

Registration by appointment.

#### August 24, Thursday

1. Dining service opens for breakfast on August 24.
2. Residence halls open for occupancy according to registration appointment on August 24.

#### August 26, Saturday

Residence halls open for pre-registered (returning) students.

#### August 28, Monday

1. Classes begin.
2. Schedule changes.

#### August 31, Thursday

Last day for schedule changes.

#### September 4, Monday

Labor Day. No classes.

#### September 11, Monday

Deadline for filing Application for Degree form with the Office of Admissions and Records for students expecting to graduate in May 1996.

#### September 13, Wednesday

Twelfth class day.

#### September 15, Friday

Priority deadline for submission of Financial Aid applications for Spring Semester 1996 awards.

#### September 26, Tuesday

1. Last day to drop a course or to withdraw from the University without having a grade recorded.
2. Last day to change to Non-Credit.

**October 9, Monday**

Deadline for filing completed signed thesis with Dean of major school for students expecting to receive a master's degree in December 1995.

**November 22, Wednesday**

1. Last day to officially drop or withdraw through the Office of Admissions and Records.
2. Dining service closes at 6:30 p.m.
3. Residence halls close at 6:30 p.m.

**November 23-25, inclusive**

Thanksgiving.

**November 26, Sunday**

Residence halls re-open at 9 a.m. Dining Service open for brunch.

**December 7-8, inclusive**

1. Limited departmental final examinations.
2. Dead Days.

**December 9-14, inclusive**

First semester final examinations.

**December 14, Thursday**

1. Dining service closes at 6:30 p.m.
2. Residence halls close at 6:30 p.m.

**December 15, Friday**

1. Grade reports due in Office of Admissions and Records by 10 a.m.
2. End of first semester.

**December 16, Saturday**

Commencement exercises.

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**SECOND SEMESTER 1995-96 (Spring)**

Registration for any given semester begins in the preceding semester. For example, registration for the Spring semester for currently enrolled students and for new students who meet the early application deadline will begin in the Fall.

**September 1, 1995, Friday**

Application for admission and supporting documents (transcripts of credits and ACT and TASP test results for freshmen, GRE test scores for graduate students, GMAT scores for graduate business students) must be received by the Office of Admissions and Records by this date to ensure processing for telephone registration for the Spring semester. All first-time UT Pan American undergraduate students must apply for admission and complete all test requirements by the deadline. All students applying after deadline will register late.

**October 23-November 24 (tentative)**

Telephone registration by appointment.

**November 13, Monday**

Late application deadline. Application for admission and supporting documents (transcript of credits and ACT and TASP test results for freshmen, GRE test scores for graduate students, GMAT scores for graduate business students) must be received by the Office of Admissions and Records by this date to ensure processing for admission to the Spring semester. Prospective students should file documents as early as possible before this deadline.

All first-time UT Pan American undergraduate students must apply for admission and complete all test requirements by deadline. Applications received after deadline will be processed for the next semester.

**January 9-10 (tentative)**

1. Registration by appointment.
2. Residence halls open according to registration appointment.

**January 12, Friday**

Dining service opens for breakfast.

**January 15, Monday**

1. Classes begin.
2. Schedule changes.
3. Deadline for filing an Application for Degree form with the Office of Admissions and Records for students expecting to graduate in August 1996.
4. Scholarship application deadline for 1996-97.

5. Residence halls open for pre-registered (returning) students.

**January 18, Thursday**

Last day for schedule changes.

**January 30, Tuesday**

Twelfth class day.

**February 13, Tuesday**

1. Last day to drop a course or to withdraw from the University without having a grade recorded.

2. Last day to change to Non-Credit.

**February 15, Thursday**

Priority deadline for submission of Financial Aid applications for Summer 1996 awards.

**March 4, Monday**

Deadline for filing completed signed thesis with the Dean of major school for students expecting to receive a master's degree in May 1996.

**March 8, Friday**

1. Dining service closes at 6:30 p.m.

2. Residence halls close at 6:30 p.m.

**March 11-16, inclusive**

Spring Break.

**March 17, Sunday**

Residence halls re-open at noon.

**April 5-6, inclusive**

Easter holidays.

**April 8, Monday**

Deadline for filing an Application for Degree form with the Office of Admissions and Records for students expecting to graduate in December 1996.

**April 15, Monday**

Priority deadline for submission of Financial Aid application for Fall 1996-97 awards.

**April 19, Friday**

Last day to officially drop or withdraw through the Office of Admissions and Records.

**May 2-3, inclusive**

1. Limited departmental final examinations.

2. Dead days.

**May 4-9, inclusive**

Second semester final examinations.

**May 9, Thursday**

1. Dining service closes at 6:30 p.m.

2. Residence halls close at 6:30 p.m.

**May 10, Friday**

Grade reports due in Office of Admissions and Records by 10 a.m.

**May 11, Saturday**

Commencement exercises.

---

## SUMMER SESSIONS 1996

Registration for any given semester begins in the preceding semester. For example, registration for the Spring semester for currently enrolled students and for new students who meet the early application deadline will begin in the Fall.

**February 1, 1996, Thursday**

Application for admission and supporting documents (transcripts of credits and ACT and TASP test results for freshmen, GRE test scores for graduate students, GMAT scores for graduate business students) must be received by the Office of Admissions and Records by this date to ensure processing for telephone registration for both Summer sessions. All first-time UT Pan American undergraduate students must apply for admission and complete all test requirements by the deadline. All students applying after deadline will register late.

**March 25 - April 26 (tentative)**

Telephone registration by appointment for Summer I and Summer II.

**April 15, Monday**

Late application deadline for admission and supporting documents (transcript of credits and ACT and TASP test results for freshmen, GRE test scores for graduate students, GMAT scores for graduate business students) must be received by the Office of Admissions and Records by this date to insure processing for admission to the Spring semester. Prospective students should file documents as early as possible before this deadline.

All first-time UT Pan American undergraduate students must apply for admission and complete all test requirements by deadline. Applications received after deadline will be processed for the next semester.

**May 30, Thursday**

Residence halls open at 12 noon.

**May 31, Friday**

1. Registration by appointment for first summer session.

2. Dining service opens for breakfast.

**June 3, Monday**

Classes begin.

**June 5, Wednesday**

Last day to make schedule changes.

**June 6, Thursday**

1. Fourth class day.

2. Last day to change Meal Plan.

**June 10, Monday**

Deadline for filing completed and signed thesis with the Dean of major school for students expecting to receive a master's degree in August 1996.

**June 12, Wednesday**

Last day to drop or withdraw without having a grade recorded.

**June 26, Wednesday**

Last day to officially drop or withdraw through the Office of Admissions and Records.

**July 4, Thursday**

Independence Day. No classes.

**July 8, Monday**

1. First term final examinations.

2. Dining service closes at 6:30 p.m. for those students not returning for the second summer session.

3. Residence halls close at 6:30 p.m. for those students not returning for the second summer session.

**July 9, Tuesday**

1. Registration by appointment for second summer session.

2. Residence halls open for students attending second summer session.

**July 10, Wednesday**

First summer grade reports due in Office of Admissions and Records by 10 a.m.

**July 11, Thursday**

Classes begin.

**July 14, Sunday**

Dining service open for breakfast.

**July 15, Monday**

Last day to make schedule changes.

**July 16, Tuesday**

Fourth class day

**July 22, Monday**

Last day to drop or withdraw without having a grade recorded.

**August 6, Tuesday**

Last day to officially drop or withdraw through the Office of Admissions and Records.

**August 14, Wednesday**

1. Second term final examinations.

2. Dining service closes at 6:30 p.m.

3. Residence halls close at 6:30 p.m.

**August 15, Thursday**

Grade reports due in Office of Admissions and Records by 10 a.m

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# THE UNIVERSITY OF TEXAS-PAN AMERICAN

## AT A GLANCE

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**Character:** A four-year, state-supported institution.

**Location:** Edinburg, Texas; close to the Mexican border and the Gulf of Mexico.

**History:** The University of Texas-Pan American is a comprehensive, public co-educational institution. UT Pan American originated in 1927 as Edinburg College, a two-year community college. In 1933, the school was approved by the State Department of Education, designated a "First Class Junior College" by the Association of Texas Colleges, became a member of the Association of Colleges and Secondary Schools of Southern States and was renamed Edinburg Junior College.

In 1948, the college was designated a Regional College, separated from the Edinburg School District, and began receiving partial state support. On December 20, 1951, the voters of Hidalgo County approved the establishment of a four-year college to serve the needs of the region. Between 1952 and 1965, the former Edinburg Regional College served as the junior division of the new college and a senior division was established to furnish upper-level work and award degrees.

On September 1, 1963, Pan American College became part of the Texas System of Colleges and Universities. On September 1, 1965, the college became the 22nd institution of higher learning in Texas, receiving full state assistance. In 1970, Pan American College was approved to offer graduate instruction. And, in 1971, the institution was renamed Pan American University.

In 1973, Pan American University began offering off-campus instruction in Brownsville. In 1977, the Texas Legislature authorized the establishment of Pan American University at Brownsville (Chapter 112.51, Texas Education Code). Effective September 1, 1989, Pan American became a component of The University of Texas System. In 1991, the Texas Legislature granted the Brownsville campus independent status and changed its name to The University of Texas at Brownsville.

The University of Texas-Pan American is accredited by the Southern Association of Colleges and Schools with the latest evaluation occurring in 1986.

**Degrees are awarded in the following fields:**

**Bachelor's Degrees:**

**Arts and Sciences**

- Anthropology
- Applied Arts and Sciences
- Art
- Biology
- Chemistry
- Communication
- Computer Science
- Corrections
- Electrical Engineering
- English
- General Studies
- History
- Interdisciplinary Studies
- Inter-American Studies (Latin-American Studies)
- Manufacturing Engineering
- Mathematics
- Mechanical Engineering
- Mexican-American Studies
- Music
- Philosophy
- Physics
- Police Administration
- Political Science
- Psychology
- Social Work



Sociology  
Spanish  
Speech and Hearing  
**Business Administration**  
Accounting  
Computer Information Systems  
Economics  
Finance  
International Business  
Management  
Marketing

**Education**

Health  
Kinesiology

**Health Sciences**

Clinical Laboratory Sciences  
Dietetics  
Nursing  
Physician's Assistant (*cooperatively with The University of Texas Medical Branch in Galveston*)  
Rehabilitative Services

**Master's Degrees:**

**Arts and Sciences**

Biology  
Communication Disorders  
English  
English as a Second Language  
History  
Interdisciplinary Studies  
Mathematics  
Psychology  
Public Administration  
Sociology  
Spanish  
Speech Communication  
Theater

**Business Administration**

Business Administration (MBA)

**Education**

Bilingual Education  
Early Childhood Education  
Educational Diagnostician  
Elementary Education  
Gifted Education  
Guidance and Counseling  
Kinesiology (Physical Education)  
Reading  
School Administration  
School Psychology  
Supervision

**Health Sciences**

Adult Health Nursing

**Doctor's Degrees:**

Business Administration with an emphasis in International Business  
Educational Administration (*cooperatively with The University of Texas at Austin*)

The University also offers an Associate's Degree in Nursing in the School of Health Sciences.

Additional degree programs are being developed and approved at the time of publication. Contact the Admissions Office for additional information about these new opportunities.

**Admissions:** The University of Texas-Pan American maintains an open admissions policy at the undergraduate level.

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# THE UNIVERSITY OF TEXAS-PAN AMERICAN

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## Mission Statement

THE UNIVERSITY OF TEXAS-PAN AMERICAN is a comprehensive general academic component of The University of Texas System established to meet the higher education needs of the Lower Rio Grande Valley, with a growing commitment to international education. The University is committed to pursuing high standards of achievement in instruction, student performance, research, scholarly accomplishment and professional service.

THE UNIVERSITY OF TEXAS-PAN AMERICAN is committed to providing an environment of academic freedom in which students learn from faculty scholars who have expertise in the arts and sciences, as well as in the professions of business, criminal justice, engineering, nursing and allied health, public administration, social work and education. Excellence in teaching is enhanced by faculty engaged in research and creative activity, both to develop and maintain their own scholarship and to extend human knowledge. The results of that research and creativity are made available to students in the classroom and the laboratory, and to the general public through performance, presentation, publication and public service activities.

THE UNIVERSITY OF TEXAS-PAN AMERICAN strives to fulfill its responsibilities by providing a variety of quality academic programs leading to degrees at both the undergraduate and graduate level and to certification in selected professions, by basing those programs on a broad core of general education requirements solidly grounded in the liberal arts tradition, by emphasizing multicultural understanding, and by demanding completion requirements which promote competency in basic skills and program areas.

THE UNIVERSITY OF TEXAS-PAN AMERICAN is committed to maintaining an "open" admissions policy that recognizes the complex educational needs of its students and that provides broad access to the people of the area; concomitantly, the University pledges itself to the fullest development of its students by seeking financial assistance for those of limited means and earned merit, providing appropriate developmental and support services for those who need them and offering enriched programs for those of exceptional ability. In addition, the University is committed to providing up-to-date library, computer, laboratory and physical resources to support its academic programs and to evaluating consistently and responsibly the effectiveness of its instructional programs.

## THE UNIVERSITY OF TEXAS PAN-AMERICAN SEEKS TO COMPLEMENT INSTRUCTIONAL PROGRAMS OF THE INSTITUTION BY:

- reflecting and responding to the international, multicultural, multilingual character of the Pan American community;
- providing a wide range of extracurricular activities and experiences which enhance the region's intellectual, cultural, civic, social, economic and physical environment;
- maintaining services that fulfill personal needs and that enrich the academic development of students;
- involving the institution in the community by providing services, programs, cultural experiences and expertise to the community-at-large;
- encouraging the community-at-large to contribute to the effectiveness of their University; and
- cooperating with other institutions and agencies to maximize educational opportunity for the people of the state through the sharing of resources.

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# THE UNIVERSITY OF TEXAS SYSTEM

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## BOARD OF REGENTS

### OFFICERS

Bernard Rapoport, Chairman ..... Waco  
Ellen Clarke Temple, Vice Chairman ..... Lufkin  
Lowell H. Lebermann Jr., Vice Chairman ..... Austin  
Arthur H. Dilly, Executive Secretary

### MEMBERS

*Terms Expire February 1, 1995*

Robert J. Cruikshank ..... Houston  
Tom Loeffler ..... San Antonio  
Mario E. Ramirez, M.D. .... McAllen

*Terms Expire February 1, 1997*

Rev. Zan W. Holmes, Jr. .... Dallas  
Bernard Rapoport ..... Waco  
Ellen Clarke Temple ..... Lufkin

*Terms Expire February 1, 1999*

Thomas O. Hicks ..... Dallas  
Lowell H. Lebermann Jr. .... Austin  
Martha E. Smiley ..... Austin

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## THE UNIVERSITY OF TEXAS-PAN AMERICAN

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### ADMINISTRATIVE OFFICERS AND STAFF

#### OFFICE OF THE PRESIDENT

Dr. Miguel A. Nevarez ..... President  
Carol Rausch Braden ..... Assistant to the President

#### OFFICE OF THE VICE PRESIDENT FOR INSTITUTIONAL ADVANCEMENT

T. Edward Mercer ..... Vice President  
Alice Hawley ..... Director of Development and Alumni Affairs  
Janice K. Odom ..... Director of University Relations

#### INFORMATION RESOURCES

Steve Copold ..... Director of Information Resources  
Anne Harwell ..... Director of Technology Resources  
Gerald Whitaker ..... Director of Telephone and Print Services

#### ATHLETICS

Gary Gallup ..... Director  
James McKone ..... Sports Information Director

#### OFFICE OF THE VICE PRESIDENT FOR ACADEMIC AFFAIRS

Dr. Rudolph Gomez ..... Vice President

Dr. Barbara Prater.....Associate Vice President  
William L. Morris.....Assistant Vice President

COLLEGE OF ARTS AND SCIENCES

Dr. Ernest J. Baca.....Dean  
Dr. Mark Glazer.....Associate Dean for University College  
Dr. Sylvia Lujan.....Staff Associate Dean

SCHOOL OF BUSINESS ADMINISTRATION

Dr. Jerry Prock.....Interim Dean

SCHOOL OF EDUCATION

Dr. Ernesto Bernal.....Dean

SCHOOL OF HEALTH SCIENCES

Dr. Judy Perkin.....Dean

HONORS PROGRAM

Dr. Raymond Welch.....Director

CENTER FOR LATIN AMERICAN STUDIES

Dr. Lino Garcia, Jr.....Director

UNIVERSITY LIBRARY

Dr. Elinor Bridges.....Library Director  
George Gause.....Curator, Rio Grande Valley Historical Collection  
Dr. Mark Glazer.....Head, Rio Grande Valley Folklore Archive

OFFICE OF ADMISSIONS AND RECORDS

David R. Zuniga.....Director and Registrar  
Kelly Shannon.....Associate Director of Admissions

FINANCIAL AID

Arnoldo Trejo.....Director  
Lucile Shabowich.....Deputy Director

OFFICE OF THE VICE PRESIDENT FOR BUSINESS AFFAIRS

James R. Langabeer.....Vice President  
J.C. Gonzalez.....Assistant to the Vice President

COMPUTER CENTER

Leota Hull.....Director  
R.J. Fensterman.....Manager, Administrative Programming  
Mary L. Rose.....Manager, Support Services

COMPTROLLER

Esequiel Granado, Jr.....Comptroller  
Juan Mata.....Director of Accounting

PERSONNEL OFFICE

Antonio Villalobos.....Director

PURCHASING AND CENTRAL SERVICES

Francisca Rios.....Director

UNIVERSITY POLICE DEPARTMENT

Howard Miller.....Chief

STUDENT AFFAIRS

Judy Vinson.....Vice President for Student Affairs  
Elvie Davis.....Assistant Dean, Student Development & University Center  
Santiago Villanueva.....Assistant Dean, Housing & Recreation/International Students

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# ADMISSIONS

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The University of Texas-Pan American is an equal opportunity educational institution. Under this philosophy, students are admitted to the University without regard to race, creed, color, sex, ethnic origin, religion, age, veteran status or disability. Admission is only for the semester requested and does not imply automatic admission for later semesters. Students not in attendance for the previous regular semester should apply for readmission at least 60 days prior to registration for the semester in which they plan to resume studies.

Students are admitted to The University of Texas-Pan American through the Office of Admissions and Records, which is responsible for administering admission policies. Students who wish to attend the University must meet all admission requirements by the published deadline date for the semester applying. Failure to have applications with supporting documents on file by these dates will result in restrictive admission or denial of admission at that time. Request documents to be sent to:

**Office of Admissions and Records**  
Student Services Building, Room 108  
The University of Texas-Pan American  
1201 W. University Drive  
Edinburg, TX 78539-2999

Required high school and/or college transcripts must be requested from each individual institution attended. A student should request that the school(s) send official transcripts directly to the Office of Admissions and Records at the above address. Information regarding how test scores may be requested may be obtained from the Office of Placement and Testing, Student Services Building Room 147, (210) 381-2247.

## Undergraduate Admission

Applicants may gain undergraduate admission to the university by one of the following methods:

### Concurrent Enrollment Program for High School Students

The Program for Concurrent Enrollment at The University of Texas-Pan American is offered to allow outstanding high school students an opportunity to attend a university-supervised program and earn college credit. Students taking courses for either deferred (high school) credit or dual (high school and college) credit will be graded in the same manner as are other college students, but no University credit will be given until the student graduates from high school. Course enrollment will be limited to a maximum of 7 hours each summer term and 9 hours each regular semester.

Concurrent enrollment students must also meet all TASP requirements as mandated by the State of Texas.

Students in the Concurrent Enrollment Program must earn a grade of "C" or higher in each University course taken in order to continue to participate in the program. The Director of the Honors Studies Program and the head of the department in which the student plans to major will help prepare the student's academic program. The regular student fees will be assessed in accordance with current rates set for all other students. (*Financial aid is not available for students in the concurrent enrollment program.*)

To be admitted to the Program for Concurrent Enrollment, students must submit the following by the published deadline date for the semester applying.

*Requirements:*

1. Entering Freshmen Application for Admission.
2. Application to the Concurrent Enrollment Program. (This application must be completed every semester in which the student intends to enroll in this program and must include authorization from the applicant's high school counselor and principal.)
3. High school transcript showing completion of sophomore year at an accredited high school. (Accreditation refers to the state agency responsible for determining educational standards in the state where the school is located; *i.e.*, in Texas this is the Texas Education Agency.)
4. American College Testing Program (ACT) scores with a minimum composite of 22 (or comparable CEEB-SAT scores).

Additional factors considered in granting admission may be ranking in the top 10 percent of their class, or having an academic average of at least 90 percent. (Academic average is to be based on a student's grades in academic courses such as English, Math, Natural Sciences and Social Sciences. Non-academic courses such as physical education, music, vocational and related courses will not be considered. GED is also not accepted for this purpose.) Acceptance to this program is determined by the Director of the Honors Studies Program.

All admission documents to the Concurrent Enrollment Program must be submitted to the Director of the Honors Studies Program, The University of Texas-Pan American, Liberal Arts Building Room 234, Edinburg, TX 78539-2999. All documents submitted become the property of The University of Texas-Pan American.

Upon graduation from High School, Concurrent Enrollment students must submit a finalized high school transcript showing that the student is a graduate, rank in class and that the student has earned at least 21 accredited high school units. Concurrent Enrollment students who wish to continue their studies at The University of Texas-Pan American will be readmitted as Entering Freshmen and will be required to attend Freshman Orientation.

## Entering Freshmen

Students admitted as Entering Freshmen have not attended any accredited college or university. To be admitted as an Entering Freshman, applicants must submit the following requirements to the Office of Admissions and Records by the published deadline date for the semester applying.

### Requirements:

1. **Entering Freshman Application for Admission.**
2. **High School Transcript** showing that the student is a graduate of an accredited high school, rank in class and that the student has earned at least 21 accredited high school units. (*Accreditation refers to the state agency responsible for determining educational standards in the state where the school is located; i.e., in Texas, this is the Texas Education Agency, and high schools accredited by The Association of Christian Schools International, the Texas Catholic Conference or The Accreditation Commission of the Texas Association of Baptist Schools.*)

The recommended college preparation courses for high school students are as follows:

<b>English Language Arts</b>	4 credits	English I-IV ( <i>College Board Advanced Placement English and Literature could be substituted for English IV.</i> )
<b>Mathematics</b>	4 credits	Algebra I — Geometry 2 additional credits including Algebra II and Precalculus (or Trigonometry and either Elementary Analysis or Analytic Geometry).
<b>Science</b>	3 credits	<i>Courses to be selected from State Board of Education approved courses, excluding applied and introductory courses.</i> <i>Appropriate courses include:</i> Physical Science Biology I and II Chemistry I and II Physics I and II
<b>Social Studies</b>	4 credits	United States History (1) United States Government (1/2) World History Studies (1) World Geography (1) Economics (1/2)
<b>Foreign Language</b>	3 credits	Levels I-III proficiency of the same language ( <i>language other than English</i> )
<b>Health</b>	1/2 credit	1/2 credit minimum
<b>Fine Arts</b>	1 credit	1 credit minimum
<b>Physical Education</b>	1 1/2 credits	1 1/2 credits minimum
<b>Computer Science</b>	0-1 credits	Demonstrated proficiency at Level I
<b>Electives</b>	2 1/2 credits	
<b>Total</b>	<b>24 1/2 credits</b>	

3. GED scores that qualify for issuance of a Texas high school certificate based on GED test results for students who have not graduated from an accredited high school. Students who graduated from a non-accredited high school and score a composite ACT of at least 23 are not required to submit GED scores.

4. American College Testing Program (ACT) scores (or official CEEB-SAT scores). Scores posted on an official high school transcript will be accepted. Entering Freshmen will not be permitted to register without ACT scores. Residual ACT test scores taken at an institution other than UT Pan American may not be used for admission purposes.

5. International students must also complete requirements listed under "International Student Admission."

*All documents submitted become the property of UT Pan American.*

### **Returning Student Admissions**

Students whose last institution attended was UT Pan American are admitted as Returning Students. To be admitted as a Returning Student, applicants must be on good academic standing, or have served their period of suspension, and submit the following requirements to the Office of Admissions and Records by the published deadline date for the semester applying.

1. **Returning Student Application for Admission.**
2. **Clear Record of Academic or Financial "Holds"** — Returning students must clear any previous admission or financial obligations to the University prior to readmission.

It is recommended that students who are returning after an extended absence seek counseling with their academic adviser, and to make any necessary updates to the degree plan on file with the student's department of major.

### **Transfer Admission**

Students admitted as Transfer Students have attended an accredited college or university other than, or in addition to, UT Pan American. To be admitted as a Transfer Student, applicants must submit the following requirements to the Office of Admissions and Records:

1. **Transfer Student Application for Admission**
2. **Official College Transcript(s)** sent directly from each institution attended. A student's previous college work will be evaluated in terms of UT Pan American standards. Only coursework or degrees earned at an accredited institution will be recognized. (*Accreditation refers to the regional association responsible for determining educational standards in the region where the school is located; i.e. North Central Association of Colleges and Schools, Middle States Association of Colleges and Schools, New England Association of Schools and Colleges, Northwest Association of Schools and Colleges, Southern Association of Colleges and Schools and Western Association of Schools and Colleges.*)

Students who are on academic suspension based on UT Pan American standards will not be granted admission during the regular (Fall or Spring) semesters of the suspension period. Students on suspension are encouraged to enroll for summer sessions to repeat courses in which they have low or failing grades. For admission to a regular semester while on suspension, see the section on Scholastic Suspension in this bulletin.

*Failure to submit a complete and correct application, including all transcripts, is grounds for rejection of application, withdrawal of an offer of acceptance or, after enrollment, disciplinary action including expulsion. An applicant, whether a new student or a former student at the University, who has attended another collegiate institution, is not at liberty to disregard any part of the collegiate record and apply for admission to UT Pan American on the basis of the high school record or a partial record of his or her college work, but is subject without exception to the regulations given above.*

*A student holding a bachelor's degree from an accredited institution who does not wish to enter the Graduate School may be permitted to register as a "Special Student" in one of the undergraduate schools and is subject to all rules and regulations of that school. Special Students seeking professional improvement are only required to have an official transcript showing the awarding of a bachelor's degree (or higher) sent from the awarding institution. Special students seeking teaching certification or a second baccalaureate degree are required to have transcripts sent from all institutions attended. (Note: A request for a second degree evaluation form must be completed at the Office of Admission and Records for students seeking additional baccalaureate degrees. Refer to the section on Graduation for further information.)*

**All college transcripts must be sent directly from the institution attended to the Office of Admissions and Records. Hand-carried transcripts or transcripts issued to students will not be accepted.**

3. **High School Transcript** (or GED scores) and American College Testing Program (ACT) scores or CEEB-SAT scores for transfer students with less than 60 hours of transferable college-level work. *Residual ACT test scores taken at an institution other than UT Pan American may not be used for admission purposes.*

4. **TASP (Texas Academic Skills Program)** scores sent directly from the testing agency for TASP students. (*Refer to the section regarding TASP under General Academic Information for further information.*)
5. International students must also complete requirements listed under International Student Admission.

**All documents submitted become the property of UT Pan American.**

## **Transfer of Credits — Undergraduate**

### ***Policy Governing the Transfer of Credit from Other Institutions***

Transfer of regular academic credit or recognition of degrees from another institution to The University of Texas-Pan American involves at least three considerations:

1. The educational quality of the institution from which the student transfers.
2. The comparability of the nature, content and level of credit earned to that offered by UT Pan American.
3. The appropriateness and applicability of credit earned to the programs offered by UT Pan American, in light of the student's educational goals.

Accreditation speaks primarily to the first of these considerations, serving as the basic indicator that an institution meets certain minimum standards. Accreditation affords reason for confidence in an institution's purposes, in the appropriateness of the resources and plans for carrying out these purposes and in its effectiveness in accomplishing its goals. UT Pan American requires that the institution be accredited by the regional accreditation association responsible for the area in which the institution is located. Institutions that are not accredited may lack that status for reasons unrelated to questions of quality. Such institutions, however, cannot provide a reliable, third-party assurance that they meet or exceed minimum standards.

Comparability of nature, content and level of transfer credit and the appropriateness and applicability of the credit earned to programs offered by The University of Texas-Pan American are as important in the evaluation process as the accreditation status of the institution at which the transfer credit was awarded. Since accreditation does not address these questions, this information must be obtained from the catalog and other materials from the sending institution. (*Note that UT Pan American will not award credit or recognize degrees from institutions that do not follow a traditional educational structure, i.e. institution does not require in-residence coursework; does not have teaching faculty, traditional campus or support facilities; and/or does not have a limit of non-traditional courses accepted for credit through exams, life experience, military service, etc.*.)

There may be some differences between the acceptance of credit for admission purposes and the applicability of credit for degree purposes. The University of Texas-Pan American may accept previous work, place a credit value on it and enter it on the transcript. However, because of its nature and not its inherent quality, it may be determined to have no applicability to a specific degree program to be pursued by the student.

Foreign institutions, in most cases, are chartered and authorized by their national governments, usually through a ministry of education. Although this provides for a standardization within a country, it does not produce useful information about comparability from one country to another. No other nation has a system comparable to the voluntary accreditation used in the United States. The *Country Index* published by the International Education Research Foundation Inc. and the student's performance in his or her first year of coursework shall be used as the guide for evaluating post-secondary work from foreign institutions.

### ***Transfer Credit Guidelines***

The grading policies of The University of Texas-Pan American will be applied to all coursework transferring from other institutions. Some special circumstances regarding the transfer or non-transfer of credit to The University of Texas-Pan American are listed as follows:

1. **Bible Coursework** — Exegetical or doctrinal courses in Religion are not transferable. Courses in Bible of a historical or literary nature (but non-doctrinal) are transferable up to a maximum of 12 semester hours of lower-division credit.
2. **Incomplete Grades** — Incomplete grades are treated as "F" grades for the purpose of grade point average calculation.
3. **Life Experience** — No credit will be awarded for "life experience." (*There will be limited exceptions to this rule in the case of the Bachelor of Applied Arts and Sciences degree when this credit has been validated and placed on their transcript by a junior college/technical institution.*)
4. **Nursing Coursework** — Nursing work taken at junior colleges or from hospitals is normally considered to be terminal and does not transfer.
5. **Remedial Courses** — Sub-college courses such as remedial reading, developmental reading, speed reading, remedial science and orientation are not transferable for credit.
6. **Second Undergraduate Degrees** — Transfer students entering with a baccalaureate degree who seek a second undergraduate degree from UT Pan American must officially request that an evaluation of credits be completed by the Office of Admissions and Records.
7. **Terminal Courses** — Terminal courses offered at many junior colleges are not offered for the purpose of transfer to



senior colleges and usually are clearly labeled in the college catalog as being non-transferable. Examples of terminal courses are auto mechanics, machine shop, electricity, data processing and welding. *(There will be limited exceptions to this rule in the case of the Bachelor of Applied Arts and Sciences degree.)*

8. Vocational/Technical Courses – Drill or skill courses such as filing methods and vocational or technical training courses such as shop courses, welding, carpentry, plumbing and masonry are not transferable.

## Texas Common Course Numbering System

The Texas Common Course Numbering System (TCCNS) has been designed for the purpose of aiding students in the transfer of general academic courses between colleges and universities throughout Texas. Common courses are freshman and sophomore academic credit courses that have been identified as common by institutions that are members of the TCCNS. The system ensures that if the student takes courses that the receiving institution has designated as common, then the courses will be accepted in transfer, and the credit will be treated as if the courses had actually been taken on the receiving institution's campus.

The table below lists the courses The University of Texas-Pan American has identified as common and their TCCNS equivalents. Before using this table, students should be sure that the institution they attend employs the TCCNS. Course availability varies from institution to institution.

Only courses that have direct equivalents are shown. Other courses may transfer by title. UT Pan American students wishing to transfer a course that is not listed in this guide should obtain approval from the Office of Admissions and Records prior to taking the course.

The Office of Admissions and Records must receive an official transcript directly from the registrar's office before credit can be transferred. (See section on "Transfer of Credits — Undergraduates" for complete transfer of course credit regulations.)

## The University of Texas-Pan American Courses Equivalent to the Texas Common Course Numbering System 1994-96

### Texas Common Course Number Sequence

*The following is an alphabetical listing of Texas Common Course Numbers and their UT Pan American course equivalents.*

<u>Texas Common Course Number</u>	<u>UT Pan American Course Number</u>	<u>Texas Common Course Number</u>	<u>UT Pan American Course Number</u>
ACCT 2301	ACC 2329	COMM 1307	COMM 1301
ACCT 2401	ACC 2421	COMM 1335	COMM 1315
ANTH 2346	ANTH 1323	COMM 2311	COMM 1304
ARTS 1301	ART 1301	COMM 2315	COMM 1306
ARTS 1303	ART 2351	COSC 1305	CIS 1301
ARTS 1304	ART 2352	COSC 1306	CS 1380
ARTS 1311	ART 1331	COSC 1332	CIS 2310
ARTS 1312	ART 2332	COSC 2315	CS 2333
ARTS 1316	ART 1311	COSC 2318	CS 2380
ARTS 1317	ART 1312	CRIJ 1301	CRIJ 1301
ARTS 2316	ART 2321	CRIJ 1306	CRIJ 2333
ARTS 2317	ART 2322	CRIJ 1307	CRIJ 2301
ARTS 2323	ART 2312	CRIJ 1310	CRIJ 2331
ARTS 2326	ART 2341	CRIJ 1313	CRIJ 2303
ARTS 2327	ART 2342	CRIJ 2313	CRIJ 2342
ARTS 2333	ART 2361	CRIJ 2314	CRIJ 2323
ARTS 2334	ART 2362	CRIJ 2323	CRIJ 2332
ARTS 2341	ART 2303	CRIJ 2326	CRIJ 2304
ARTS 2342	ART 2304	CRIJ 2328	CRIJ 1313
ARTS 2346	ART 2371	DANC 1210	KIN 2227
ARTS 2347	ART 2373	DANC 1245	KIN 2226
ARTS 2356	ART 2334	DRAM 1310	COMM 2312
BIOL 1322	HLTH 2372	DRAM 1351	COMM 1305
BIOL 1411	BIOL 1401	DRAM 1352	COMM 2306
BIOL 1413	BIOL 1402	ECON 1301	ECO 1301
BIOL 2401	BIOL 2403	ECON 2301	ECO 2354
BIOL 2402	BIOL 2404	ECON 2302	ECO 2353
BIOL 2428	BIOL 2402	ENGL 1301	ENG 1301
BUSI 1301	GENB 1331	ENGL 1302	ENG 1302
BUSI 1307	FINA 1381	ENGL 2311	ENG 2309
CHEM 1411	CHEM 1401	ENGL 2322	ENG 2305
CHEM 1412	CHEM 1402	ENGL 2326	ENG 2303

**Texas Common  
Course Number**

ENGL 2331  
ENGR 2301  
FREN 1311  
FREN 1312  
FREN 2311  
FREN 2312  
GEOL 1403  
GEOL 1404  
GERM 1311  
GERM 1312  
GOVT 2301  
GOVT 2302  
GOVT 2304  
HIST 1301  
HIST 1302  
HIST 2301  
HIST 2311  
HIST 2312  
HIST 2380  
MATH 1312  
MATH 1314  
MATH 1316  
MATH 1324  
MATH 1325  
MATH 1342  
MATH 2313  
MATH 2314  
MATH 2315  
MATH 2318  
MUSI 1188  
MUSI 1306  
MUSI 1308  
MUSI 1309  
MUSI 2166  
MUSI 2168  
OFAD 1301  
OFAD 1302

**UT Pan American  
Course Number**

ENG 2307  
ENGR 2303  
FR 1321  
FR 1322  
FR 2321  
FR 2322  
GEOL 1401  
GEOL 1402  
GER 1331  
GER 1332  
POLS 2313  
POLS 2314  
POLS 1333  
HIST 2313  
HIST 2314  
HIST 2333  
HIST 1333  
HIST 1334  
HIST 2363  
MATH 1334  
MATH 1340  
MATH 1356  
MATH 1321  
MATH 1322  
MATH 2330  
MATH 1360  
MATH 1370  
MATH 2342  
MATH 2345  
MUS 2122  
MUS 2307  
MUS 2301  
MUS 2302  
MUS 2124  
MUS 2123  
AIS 1305  
AIS 1306

**Texas Common  
Course Number**

OFAD 1311  
PHED 1301  
PHED 1306  
PHED 2255  
PHIL 1301  
PHIL 2303  
PHIL 2306  
PHIL 2307  
PHYS 1401  
PHYS 1402  
PHYS 1411  
PHYS 1412  
PHYS 1415  
PHYS 1417  
PSYC 2301  
PSYC 2307  
PSYC 2308  
PSYC 2314  
PSYC 2317  
PSYC 2319  
SOC 1301  
SOC 1306  
SOC 2301  
SOC 2326  
SOCW 2361  
SPAN 1313  
SPAN 1314  
SPAN 2311  
SPAN 2312  
SPAN 2313  
SPAN 2315  
SPCH 1311  
SPCH 1315  
SPCH 1318  
SPCH 1342  
SPCH 2341

**UT Pan American  
Course Number**

AIS 1301  
KIN 1351  
HLTH 1354  
KIN 2281  
PHIL 1310  
PHIL 1320  
PHIL 2330  
PHIL 2350  
PHYS 1401  
PHYS 1402  
ASTR 1401  
ASTR 1402  
PSCI 1421  
PSCI 1422  
PSY 1323  
PSY 2336  
PSY 2335  
PSY 2337  
PSY 2301  
PSY 2324  
SOC 1313  
SOC 1323  
SOC 2333  
SOC 2324  
SOCW 1313  
SPAN 1301  
SPAN 1302  
SPAN 2307  
SPAN 2308  
SPAN 1303  
SPAN 1304  
COMM 1301  
COMM 1313  
COMM 1307  
COMM 1309  
COMM 1310

**UT Pan American Course Number Sequence**

*The following is an alphabetical listing of UT Pan American courses that have Texas Common Course Number equivalents.*

**UT Pan American  
Course Number**

ACC 2329  
ACC 2421  
AIS 1301  
AIS 1305  
AIS 1306  
ANTH 1323  
ART 1301  
ART 1311  
ART 1312  
ART 1331  
ART 2303  
ART 2304  
ART 2312  
ART 2321  
ART 2322  
ART 2332  
ART 2334

**Texas Common  
Course Number**

ACCT 2301  
ACCT 2401  
OFAD 1311  
OFAD 1301  
OFAD 1302  
ANTH 2346  
ARTS 1301  
ARTS 1316  
ARTS 1317  
ARTS 1311  
ARTS 2341  
ARTS 2342  
ARTS 2323  
ARTS 2316  
ARTS 2317  
ARTS 1312  
ARTS 2356

**UT Pan American  
Course Number**

ART 2341  
ART 2342  
ART 2351  
ART 2352  
ART 2361  
ART 2362  
ART 2371  
ART 2373  
ASTR 1401  
ASTR 1402  
BIOL 1401  
BIOL 1402  
BIOL 2402  
BIOL 2403  
BIOL 2404  
CS 1380  
CS 2333

**Texas Common  
Course Number**

ARTS 2326  
ARTS 2327  
ARTS 1303  
ARTS 1304  
ARTS 2333  
ARTS 2334  
ARTS 2346  
ARTS 2347  
PHYS 1411  
PHYS 1412  
BIOL 1411  
BIOL 1413  
BIOL 2428  
BIOL 2401  
BIOL 2402  
COSC 1306  
COSC 2315

**UT Pan American  
Course Number**

CS 2380  
 CHEM 1401  
 CHEM 1402  
 CIS 1301  
 CIS 2310  
 COMM 1301  
 COMM 1301  
 COMM 1304  
 COMM 1305  
 COMM 1306  
 COMM 1307  
 COMM 1309  
 COMM 1310  
 COMM 1313  
 COMM 1315  
 COMM 2306  
 COMM 2312  
 CRIJ 1301  
 CRIJ 1313  
 CRIJ 2301  
 CRIJ 2303  
 CRIJ 2304  
 CRIJ 2323  
 CRIJ 2331  
 CRIJ 2332  
 CRIJ 2333  
 CRIJ 2342  
 ECO 1301  
 ECO 2353  
 ECO 2354  
 ENG 1301  
 ENG 1302  
 ENG 2303  
 ENG 2305  
 ENG 2307  
 ENG 2309  
 ENGR 2303  
 FINA 1381  
 FR 1321  
 FR 1322  
 FR 2321  
 FR 2322  
 GENB 1331  
 GEOL 1401  
 GEOL 1402  
 GER 1331  
 GER 1332  
 HIST 1333  
 HIST 1334  
 HIST 2313  
 HIST 2314  
 HIST 2333  
 HIST 2363

**Texas Common  
Course Number**

COSC 2318  
 CHEM 1411  
 CHEM 1412  
 COSC 1305  
 COSC 1332  
 COMM 1307  
 SPCH 1311  
 COMM 2311  
 DRAM 1351  
 COMM 2315  
 SPCH 1318  
 SPCH 1342  
 SPCH 2341  
 SPCH 1315  
 COMM 1335  
 DRAM 1352  
 DRAM 1310  
 CRIJ 1301  
 CRIJ 2328  
 CRIJ 1307  
 CRIJ 1313  
 CRIJ 2326  
 CRIJ 2314  
 CRIJ 1310  
 CRIJ 2323  
 CRIJ 1306  
 CRIJ 2313  
 ECON 1301  
 ECON 2302  
 ECON 2301  
 ENGL 1301  
 ENGL 1302  
 ENGL 2326  
 ENGL 2322  
 ENGL 2331  
 ENGL 2311  
 ENGR 2301  
 BUSI 1307  
 FREN 1311  
 FREN 1312  
 FREN 2311  
 FREN 2312  
 BUSI 1301  
 GEOL 1403  
 GEOL 1404  
 GERM 1311  
 GERM 1312  
 HIST 2311  
 HIST 2312  
 HIST 1301  
 HIST 1302  
 HIST 2301  
 HIST 2380

**UT Pan American  
Course Number**

HLTH 1354  
 HLTH 2372  
 KIN 1351  
 KIN 2226  
 KIN 2227  
 KIN 2281  
 MATH 1321  
 MATH 1322  
 MATH 1334  
 MATH 1340  
 MATH 1356  
 MATH 1360  
 MATH 1370  
 MATH 2330  
 MATH 2342  
 MATH 2345  
 MUS 2122  
 MUS 2123  
 MUS 2124  
 MUS 2301  
 MUS 2302  
 MUS 2307  
 PHIL 1310  
 PHIL 1320  
 PHIL 2330  
 PHIL 2350  
 PHYS 1401  
 PHYS 1402  
 POLS 1333  
 POLS 2313  
 POLS 2314  
 PSCI 1421  
 PSCI 1422  
 PSY 1323  
 PSY 2301  
 PSY 2324  
 PSY 2335  
 PSY 2336  
 PSY 2337  
 SOC 1313  
 SOC 1323  
 SOC 2324  
 SOC 2333  
 SOCW 1313  
 SPAN 1301  
 SPAN 1302  
 SPAN 1303  
 SPAN 1304  
 SPAN 2307  
 SPAN 2308

**Texas Common  
Course Number**

PHED 1306  
 BIOL 1322  
 PHED 1301  
 DANC 1245  
 DANC 1210  
 PHED 2255  
 MATH 1324  
 MATH 1325  
 MATH 1312  
 MATH 1314  
 MATH 1316  
 MATH 2313  
 MATH 2314  
 MATH 1342  
 MATH 2315  
 MATH 2318  
 MUSI 1188  
 MUSI 2168  
 MUSI 2166  
 MUSI 1308  
 MUSI 1309  
 MUSI 1306  
 PHIL 1301  
 PHIL 2303  
 PHIL 2306  
 PHIL 2307  
 PHYS 1401  
 PHYS 1402  
 GOVT 2304  
 GOVT 2301  
 GOVT 2302  
 PHYS 1415  
 PHYS 1417  
 PSYC 2301  
 PSYC 2317  
 PSYC 2319  
 PSYC 2308  
 PSYC 2307  
 PSYC 2314  
 SOCI 1301  
 SOCI 1306  
 SOCI 2326  
 SOCI 2301  
 SOCW 2361  
 SPAN 1313  
 SPAN 1314  
 SPAN 2313  
 SPAN 2315  
 SPAN 2311  
 SPAN 2312

***Transfer Curricula and Resolution of Transfer Disputes for Lower Division Courses***

The following policy was developed for students transferring to UT Pan American from other Texas public institutions.

1. The transfer of curricula shall be as prescribed by the current issue of the Coordinating Board's guide to *Transfer Curricula and Transfer of Credit*. Current guidelines can be obtained in the Office of Admissions and Records.
2. The following procedures shall be followed by public institutions of higher education in the resolution of transfer disputes involving lower division courses.
  - A. If an institution of higher education does not accept a course credit earned by a student at another Texas public

- institution of higher education, that institution shall give written notice to the student and the other institution that the transfer of the course credit is denied.
- B. The two institutions and the student shall attempt to resolve the transfer of the course credit in accordance with Board rules and/or guidelines.
  - C. If the transfer dispute is not resolved to the satisfaction of the student or the institution at which the credit was earned within 45 days after the date the student received written notice of the denial, the institution that denies the transfer of the course credit shall notify the Commissioner of its denial and the reason for the denial.
3. The Commissioner of Higher Education or the Commissioner's designee shall make the final determination about a dispute concerning the transfer of course credit and give written notice of the determination to the involved student and institutions.
  4. All Texas public institutions of higher education shall furnish data to the Board on reported transfer disputes as the Board may require in accordance with its statutory responsibilities under Section 61.078(e) of the Education Code.

## Graduate Admission

Note that this section details admission to the Graduate School only — Each department sets the departmental admission requirements for its graduate majors with the approval of the Graduate Council. Consult the bulletin section referring to the appropriate major department for these requirements. *All undergraduate leveling work must be satisfactorily completed prior to taking graduate courses or at least be completed during the first semester of enrollment in graduate courses.*

Any student who would like to enroll in a graduate level course (5000-7000 level) must apply and be accepted to the Graduate School. Students accepted to the Graduate School are still eligible to enroll in undergraduate courses. Students seeking admission to the graduate school must have the following documents submitted to the Office of Admissions and Records for admission to the Graduate School to be determined:

Admission criteria for doctoral programs are defined by the schools or departments that operate the programs. Graduate admission to the University of Texas-Pan American does not assure acceptance to a doctoral program. Please see the section of the bulletin that describes admission procedures and criteria specific to doctoral programs.

### Requirements:

1. **Graduate Student Application for Admission.**
2. **Official College Transcript(s)** of all prior graduate and undergraduate work sent directly from each institution attended. Students must hold a bachelor's degree (or higher) from an accredited college or university. Only coursework from an accredited institution of higher education shall be accepted for evaluation and grade point calculation for admission to a graduate program at The University of Texas-Pan American. (*Accreditation refers to the regional association responsible for determining educational standards in the region where the school is located, i.e. North Central Association of Colleges and Schools, Middle States Association of Colleges and Schools, New England Association of Schools and Colleges, Northwest Association of Schools and Colleges, Southern Association of Colleges and Schools, and Western Association of Schools and Colleges.*)

*(Note that UT Pan American will not award credit or recognize degrees from institutions that do not follow a traditional educational structure, i.e. institution does not require in-residence coursework, does not have teaching faculty, traditional campus or support facilities and/or does not have a limit of non-traditional courses accepted for credit through exams, life experience, military service, etc.)*

Graduate Admission GPA is calculated as follows:

- A. All academic work undertaken and grades or symbols assigned at each institution shall be reflected on the student's official transcript(s). No student's grade may be expunged from his or her record.
- B. All grades for academic coursework assigned, including all grades in courses which have been repeated, will be used in calculating the graduate admission grade point average, except that UT Pan American shall base the calculation on the last 60 semester credit hours (or equivalent) of college work (*which include any previous work in a graduate or professional school*).
- C. A four-point scale will be used in computing the grade point average (*e.g.*: A=4 points per semester hour; B=3 points per semester hour; C=2 points per semester hour; D=1 point per semester hour; and F=0 points per semester hour).
- D. A grade or symbol indicating failure (*i.e.*, F, WF, DF) will count as hours undertaken, but no grade points will be earned.
- E. Excluded from the grade point average will be any credit by examination (CR); Quit (Q); Withdrew (W); Withdrew Passing (WP); Incomplete (I); and a pass grade within a pass/fail system.
- F. The grade point average will be computed by multiplying each grade point (see "C" under this section) by the semester or quarter credit hours earned per course and totaling the products. The semester or quarter hours of courses undertaken will then be totaled. The total of the products will be divided by the total semester or quarter hours. The result is to calculate to the hundredth place, giving the official cumulative grade point average for admission to graduate studies.

- G. Academic work at foreign colleges, universities or preparatory schools shall be excluded from the calculation. In such cases, the grade point average and credit shall be evaluated and computed by the Office of Admissions and Records in consultation with the graduate program to which the student is applying.
3. Graduate Record Examination (GRE) scores, or Graduate Management Admission Test (GMAT) scores for MBA students. The GRE Composite Score (sum of the verbal and quantitative scores of the Graduate Record Exam) is used in determination of graduate admission status. *Note: GRE and GMAT scores more than five years old are out of date and may not be acceptable.*
  4. International students must also complete requirements listed under International Student Admission.

*Note: Each graduate program may have different additional admission requirements. Check the relevant section of this bulletin or contact the department for information.*

Upon submitting the required documents above, an applicant is accepted or denied admission to the Graduate School by one of the following methods.

### **Clear Admission — Graduate School**

An applicant is accepted for clear admission if the following criteria is met:

1. 3.0 Graduate Admission GPA or more on a 4.0 scale and provide a minimum composite (sum of verbal and quantitative) GRE score of 600 *or provide a minimum GMAT score that corresponds to the 20th percentile for MBA applicants, or*
2. composite GRE score of 1000 or higher *or a GMAT score of 470 or higher for MBA applicants, or*
3. the applicant meets the requirements for changing "Probationary" to "Clear," or
4. the applicant holds a Master's degree from an accredited university.

Note that prospective MBA students who do not satisfy the above criteria must submit a GRE score in addition to a GMAT score for determination of university graduate admission classification.

Graduate students must maintain a GPA of a 3.0 in all graduate coursework or be suspended from the graduate school.

### **Denied Admission — Graduate School**

A student is denied admission to the Graduate School for failure to meet minimum graduate admission requirements; however, this student is eligible to enroll in undergraduate classes. A denied student may gain admission to the graduate school by:

1. improving GRE (or GMAT) scores and/or graduate grade point average sufficiently to change the applicant's status to "Probationary" or "Clear" Admission, or
2. by appealing to the Council of Deans for an alternative procedure. The appeal must be in writing to the Dean of the appropriate school and should provide an explanation of extenuating circumstances.

### **Probationary Admission — Graduate School**

An applicant may be granted probationary admission if:

1. the applicant does not meet clear admission requirements, but
2. has a score of 1200 or more based upon the following formula:  

$$200 \times \text{Graduate Admission GPA} + \text{composite GRE score (sum of verbal \& quantitative)} = 1200 \text{ or more}$$

The minimum entrance score of 1200 must be met prior to registration.

An applicant granted probationary admission may not enroll for more than 12 graduate hours. During his or her probationary status, a student may earn no grade less than a "B," or the student will be denied further admission to graduate school until such time that the requirements for clear admission are met.

At the end of the semester in which a student's total earned graduate hours are 9 or more, and the student's graduate GPA is 3.0 or better with no grade less than a "B," the student's admission classification will be changed to "clear."

### **Tentative Admission — Graduate School**

Tentative admission is not applicable to graduate students in the School of Business or the School of Health Sciences. Applicants to the College of Arts and Sciences and School of Education may be granted tentative admission if:

1. the GRE has not been taken, and
2. the student has a minimum Graduate Admission GPA of at least a 2.5 (on a 4 point scale).

Tentative admission is limited to a maximum of 6 semester hours of graduate work which **must be taken within the same semester**, or in one 12-week summer session. Students who enroll in a graduate course(s) will have completed their tentative semester regardless of whether the student drops or withdraws during the semester, and will not be eligible under tentative admission for future semesters.

At the end of one semester of Tentative Admission the student will be reclassified as "Probationary," "Clear" or

“Denied” based on the admission requirements. The student must have completed his or her admission file (to include submission of official GRE scores) and meet the admission standards to be granted further admission.

### **Reservation of Work by Undergraduates for Graduate Credit**

It is possible for undergraduate students to register in graduate courses in their last semester under the following conditions:

1. The undergraduate must lack no more than 12 semester hours of work to complete all requirements for his or her first bachelor's degree.
2. These 12 hours (or less) must be completed in the same semester, or 12-week summer session, in which the student is taking the graduate courses.
3. Total registration for all work must not exceed 15 semester hours in a regular semester, or 12 semester hours in a 12-week summer session.
4. The student has a minimum Graduate Admission GPA of at least a 2.5 (on a 4.0 scale) on work completed to date.
5. The application for such graduate courses is submitted to the Office of Admissions and Records 60 days before the session begins.

*Undergraduates cannot count their work in graduate courses toward the bachelor's degree. It will be reserved for credit toward a graduate degree.*

### **Transfer Admission — Graduate School**

An applicant accepted as a graduate transfer student may enroll for a maximum of 12 graduate hours at UT Pan American to be transferred to another graduate school by submitting the following requirement to the Office of Admissions and Records:

1. A letter of approval sent directly to the UT Pan American Office of Admissions and Records by the Dean of the graduate school to which the work is to be transferred.
2. If the graduate student transfer period exceeds one semester to complete the 12 hours, an updated letter of approval must be resubmitted each semester.
3. GRE, GMAT and Official transcripts are not required for Transfer Admission.

### **Transfer of Graduate Credits to UT Pan American**

A maximum of 12 semester hours of appropriate graduate work earned at other institutions, subject to the approval of the chair of the major department and certification by the Office of Admissions and Records, may be transferred for degree credit. Credit may not be transferred for:

1. Courses which would not have received graduate credit at The University of Texas-Pan American.
2. Courses with grades less than B.
3. Correspondence courses.
4. Extension courses.
5. Courses taken at such a date that would exceed the seven-year limit of the student's program.

Transfer of graduate credit hours is not automatic. The student must submit a written request for approval of transfer to the Chair of the major department, who determines whether all the conditions for transfer have been met before adding the hours to the graduate degree program. The transfer is completed with the Student's Application for Degree form is approved by the Dean of the School (providing that the student graduates within the seven-year time limit).

### **Procedure After Admission**

Successful applicants will receive a letter of acceptance from the Office of Admissions and Records, whereupon they should contact the head of their major department, who will appoint a graduate adviser to counsel students on registration, degree programs and other required procedures. Students should have their schedules approved each semester by their advisers (or an approved substitute) before registering for courses.

### **International Student Admission**

An applicant is considered an International Student if the applicant is not a citizen of the United States. (*Applicants who have permanent resident alien status do not apply as International Students.*) All required documents must be on file in the Office of Admissions and Records 60 days prior to the beginning of the semester.

International students must not only be accepted for Undergraduate study or Graduate study with Clear Admission, but must also meet additional admission requirements for International Students as follows:

1. **International Student Application for Admission.** Note that this application requires official certification of sources of funds from the student.
2. **Test of English as a Foreign Language (TOEFL) exam** — International students from countries whose native language is not English will be expected to take the TOEFL. TOEFL scores must be sent directly from the Educational Testing Service. UT Pan American will not accept residual TOEFL exams taken at another institution. Students scoring below 500 on the TOEFL will be denied admission, while those scoring between 500 and 550, but otherwise meeting department requirements, will be expected to take prescribed courses in English.
3. **Financial Deposit** — Equal to the cost of room and board in a UT Pan American residence hall for one semester. This pre-payment must be in the form of a money order or cashier's check. The student must submit a request in writing indicating how the deposit should be applied (i.e. *toward tuition, dormitory or returned to the student if required for off-campus living expenses*). Any refunds for students who do not attend must also be requested in writing. Submit written requests to:

The Office of Payments and Collections  
Student Services Building, Room 115  
The University of Texas-Pan American  
1201 W. University Drive  
Edinburg, TX 78539-2999

*Note: Graduate students employed by The University of Texas-Pan American as Graduate Assistants or Teaching Assistants are excluded from this financial requirement.*

4. **English Translation of Educational Records** — In addition to the official transcripts required for admission as a Graduate or Undergraduate, an English translation must be included to allow for accurate interpretations. Educational documents may be returned to the Educational Ministry of the student's country to assist in the evaluation of credits.

#### **Procedure After Admission — Issuance of I-20 VISA**

Upon completion of the application process, successful applicants will be issued an I-20 visa by the International Student Adviser, who is the University's designated official to report the status of International Students to the Immigration and Naturalization Service. International students are required to report any change in status immediately to the International Student Adviser, located in the University Center Room 320, 210/381-3439.

1. **Duration:** A non-immigrant student may be admitted for duration of status. This means that the student is authorized to stay in the United States for the entire length of time during which the student is enrolled full-time in an educational program and any period of authorized practical training plus 60 days. While in the United States, the student must maintain a valid foreign passport unless exempt from passport requirements.
2. **School on Visa:** For initial admission, the student must attend the school specified on the visa. If the student has a Form I-20 A-B from more than one school, it is important to have the name of the intended school specified on the visa by presenting a Form I-20 A-B from that school to the visa-issuing consular officer. Failure to attend the specified school will result in the loss of student status and subject the individual to deportation.
3. **Re-entry:** A non-immigrant student may be readmitted after a temporary absence of five months or less from the United States, if the student is otherwise admissible. The student may be readmitted by presenting a valid foreign passport, a valid visa and either a new Form I-20 A-B or a page 4 of the Form I-20 A-B (the I-20 ID Copy) properly endorsed for re-entry if the information on the I-20 form is current.
4. **Transfer:** A non-immigrant student is permitted to transfer to a different school provided the transfer procedure is followed. To transfer school, the student should first notify the school being attended of the intent to transfer, then obtain a Form I-20 A-B from the new school. Transfer will be effected only if the student returns the Form I-20 A-B to the designated school official within 15 days of beginning attendance at the new school. The designated school official will then report the transfer to the Immigration and Naturalization Service.
5. **Extension of Stay:** If the student cannot complete the educational program after having been in student status for longer than the anticipated length of the program plus a grace period in a single educational level, or for more than eight consecutive years, the student must apply for extension of stay. An application for extension of stay on a Form I-538 should be filed with the International Student Adviser at least 15 days but no more than 60 days before the expiration of the student's stay.

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# FINANCIAL AID

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Financial Aid has changed rapidly in the past couple of years. Despite all the changes, financial aid continues to play a vital role at The University of Texas-Pan American. The Federal Work-Study program, Federal Educational Opportunity Grant and Federal Loan programs are still available to qualified students.

A large percentage of students at The University of Texas-Pan American receive some type of financial assistance because of the low income area in which the University is located. Tuition and fees are significantly lower than private colleges and equal to, or lower than, most public colleges. This, together with the availability of federal financial aid funds, makes The University of Texas-Pan American reasonably priced.

## General Information

The University of Texas-Pan American is an equal employment opportunity institution in the administration of its financial aid program. In keeping with this policy, financial aid is extended to students without regard to race, creed, sex, national origin, veteran status, religion, age or disability.

An applicant will be approved for financial assistance if he/she meets the following criteria:

- a. is a U.S. citizen or permanent resident;
- b. has filed an affidavit which states that all funds received from financial aid programs will be used solely for educational or educationally related purposes;
- c. is enrolled for a minimum of 6 hours as an undergraduate, or 6 hours as a graduate in each of the regular sessions; or for a minimum of 3 hours in each of the summer sessions;
- d. is not in default on any federal or institutional loan, and does not owe a refund on any federal or state grant program;
- e. demonstrates financial need, except when applying for funds from a program which does not call for financial need;
- f. is in satisfactory academic standing, and making satisfactory academic progress at the University. Satisfactory academic progress is defined by institutional policy;
- g. is enrolled in an eligible program of study offered by the institution;
- h. has a financial aid application and all required documentation on file by appropriate deadline;
- i. must be admitted to the university.

In the event that two or more completed and eligible applications are submitted on the same date, priority will be given to those students with exceptional need. The Student Aid Report (SAR) should be submitted to the Financial Aid Office located in Room 186, Student Services Building.

Students who receive financial aid and withdraw during the semester are required to reimburse part of their financial aid in accordance with an approved repayment schedule. Students should also consult the Tuition and Fees section for the refund policy for certain students receiving Title IV funding.

There are several sources of student aid: through employment at the University, placement in part-time jobs off campus, scholarships, federal and state grants and federal loan funds.

## Satisfactory Academic Progress Policy

Federal regulations state that students receiving financial assistance under Title IV programs must be maintaining satisfactory academic progress whether or not the student was receiving financial aid during the period of prior enrollment. The institution must certify that the student is maintaining satisfactory academic progress in the student's course of study. *The student is responsible for understanding and adhering to the policy.*

### Policy

Students on Title IV financial assistance must maintain satisfactory academic progress toward completion of their baccalaureate or master's degree. Campus-based financial assistance may be provided for a maximum of 12 semesters to undergraduate students and four semesters to full-time graduate students. Pell Grants will be limited to 10 semesters for undergraduate students.

Three factors are taken into consideration in determining satisfactory progress. The factors are as follows: grade point average, increments and maximum time frame.

### Grade Point Average Requirement

The student must maintain a grade point average required for continued enrollment consistent with the university's graduation requirements.



### Increments

Increments are measured at the end of each academic period. One academic period is defined as the Fall and Spring Semesters. Therefore, the incremental progress will be monitored at the end of the Spring semester.

Part-time students will be required to meet their increment requirements on a proportional basis, *i.e.*, half-time students will have to meet 50 percent of the increment requirement.

Transfer undergraduate students will be adjusted to the appropriate increment based upon the number of accepted transfer hours; *i.e.*, 40 hours accepted in transfer, the student will be in the second year of academic progress. The following table illustrates the increment requirements.

The Undergraduate Student must have satisfactorily completed credit hours as follows:

<i>Academic Progress Period</i>	<i>Total Cumulative Hours Earned</i>	<i>Incremental Hours to be Completed</i>
1st year - 2 semesters	20	20
2nd year - 4 semesters	40	20
3rd year - 6 semesters	60	20
4th year - 8 semesters	84	24
5th year - 10 semesters	108	24
6th year - 12 semesters	132	24

The Graduate Student must have satisfactorily completed credit hours as follows:

<i>Academic Progress Period</i>	<i>Total Cumulative Hours Earned</i>	<i>Incremental Hours to be Completed</i>
1st year - 2 semesters	18	18
2nd year - 4 semesters	36	18

Students may use summer school enrollment at UT Pan American as a means to make up credit hour deficiencies.

### Maximum Time Frame

Maximum Time Frame is measured at the end of each Fall and Spring semester. The following table illustrates the Maximum Time Frame requirements:

#### MAXIMUM TIME FRAME FOR CAMPUS-BASED ASSISTANCE

<i>Undergraduate</i>	
<i>Enrollment Status</i>	<i>Years to receive F.A.</i>
Full-time	6 years=12 semesters
Half-time	12 years=24 semesters
Combination	Calculate proportionately (not to exceed 12 years)
<i>Graduate</i>	
Full-time	2 years=4 semesters
Half-time	4 years=8 semesters
Combination	Calculate proportionately (not to exceed 4 years)

Summer school will not be considered a portion of the semester limits.

### Enrollment Status

Enrollment status will be determined as of the 12th class day in accordance with the University Catalog definition. Grades of "A" through "D" and "P" will be considered in determining credit hours earned. Grades of "F," "WP," "WF," "DP," "DF" or "I" will not be considered as credit earned for the increment measure. Students who withdraw from the University must still maintain satisfactory academic progress regarding increments and maximum time frame.

### Financial Aid Probation

Students who are under academic probation will be automatically on Financial Aid Probation. A student on Financial Aid Probation is eligible to receive financial aid. However, awards for future semesters will not be offered until grades for the current semester are posted. If after the Spring semester the student is deficient in the number of increment hours required, the student will be on a probationary status during the summer. Students may receive financial aid during the probationary period. No probationary period will be extended after the student has exhausted the maximum time frame.

### Financial Aid Suspension

Students on Academic Suspension will automatically be considered to be on Financial Aid Suspension. Failure to meet the

increment requirements after probationary period (summer sessions) will result in Financial Aid Suspension. Exhausting the maximum time frame allowed will result in Financial Aid Suspension.

### **Appeals Process**

Students may appeal Financial Aid Suspension status due to unusual circumstances such as illness, death in the family, accidents, etc. A written appeal must be submitted to the Financial Aid Office prior to the intended period of appeal. Along with the written appeal, students must submit a degree plan and other pertinent information requested by the Financial Aid Office. The appeal will be reviewed by the Financial Aid Committee consisting of faculty and staff. All decisions made by the committee are final.

### **Cancellation of Financial Aid**

The University of Texas-Pan American reserves the right to review and cancel financial aid awards at any time for the following reasons:

1. Failure to maintain satisfactory progress.
2. Changes in the financial status of recipients or their families.
3. Availability of funds for the number of qualified applicants.
4. Student's ineligibility to register for courses at the University.

When a student accepts financial aid, it is understood that the student is aware of the conditions under which the aid is offered and agrees to all necessary requirements.

### **Application Deadlines**

Deadline for submission of applications, to ensure processing before registration, for the Perkins Loan (formerly the National Direct Student Loan), Educational Opportunity Grants, Work-Study and Hinson-Hazlewood Student loan are as follows:

<i>Fall Awards</i>	<i>Spring Awards</i>	<i>Summer Awards</i>
April 15	September 16	February 15

All applications received after these deadlines are considered only if money is available to cover the request and, if eligible, the student will receive the award during the semester. With few exceptions, one application can and should be used for all assistance. It is highly recommended that the application process begin in early Spring for the upcoming Fall semester.

### **Work-Study Program**

The Federal Work-Study program enables the University to employ a sizable number of students. To qualify for the program, a student must satisfy both economic and scholastic requirements.

Employment is available under the Federal Work-Study program both on-campus and off-campus. Students work for an average of 12 hours a week when classes are in session and for a maximum of 40 hours a week during periods of non-enrollment. It is possible to combine the Federal Work-Study program with other types of financial aid. International students are not eligible.

### **Grants**

**Federal Pell Grants:** This grant is available by completing a Free Application for Federal Student Aid (FAFSA), which is mailed directly to the processing center in Iowa. The Financial Aid Office determines the amount of the grant after the U.S. Department of Education has calculated family contribution. Applications are available at the Financial Aid Office. Pell Grants are not available to students who have already received a Bachelor's degree.

**Federal Supplemental Educational Opportunity Grants (FSEOG):** The Federal Government established this program for students with great financial need. The grant may not exceed \$2,000 per year, and the minimum that may be awarded is \$200 per year. Graduate students or undergraduates who have already received a baccalaureate degree are not eligible for FSEOG. The actual amount and qualification is determined after the FAFSA is submitted for processing.

### **TPEG Resident and Non-Resident/Foreign: Texas Public Education**

Grants also are available to The University of Texas-Pan American students from the funds collected for tuition payments. The amount of funds available will depend on the tuition that is collected from students. Eligibility for TPEG resident/non-resident/foreign will be determined by the Financial Aid Office in accordance with policies set forth by the Texas Higher Education Coordinating Board. Amounts will be based on the funds available and students eligible for the funds.

### **Federal Loans**

**Federal Perkins Loan/Direct Loan (formerly National Direct Student Loan):** Recognizing the fact that loans are an

increasingly important aspect of financing an education, The University of Texas-Pan American, by participating in the Federal Perkins Loan program, has funds available with which a student may finance a substantial part of his or her education. Interest and repayment of funds borrowed begins six months from the last date of attendance, as a half-time student, in an accredited institution of higher learning if the student is a previous borrower or begins nine months after attendance if the student is a new borrower with no outstanding balance as of July 1, 1987. Applicants are considered on the basis of financial need and demonstrated academic ability. Funds are limited and preference is given to renewal borrowers. Further information may be obtained from the Financial Aid Office.

**Federal Family Educational Loan Program (FFELP):** This loan is handled through the student's local bank or credit union, and in some cases it is the responsibility of each applicant to work with the bank to secure the loan. The Financial Aid Office certifies that the student is or has been accepted for enrollment during the period the application covers, and recommends the amount of loan that the student would need in order to meet the educational costs. A student may borrow a maximum of \$2,625 during the first year and \$3,500 during the second year. A total of \$5,500 may be borrowed by any other undergraduates, and \$8,500 may be borrowed by graduate students. In addition, the Hinson-Hazlewood Student Loan Program is offered through the Texas Higher Education Coordinating Board and has the same terms as the Federal Family Educational Loan Program.

**College Short-Term Loans:** These loan funds have been made possible through donations from a number of individuals and organizations. These funds are administered by the Financial Aid Office and are available to students for short-term loans. Loans are limited and must be repaid within the semester for which said funds are borrowed. The loans are designed to aid students who do not have sufficient funds to pay tuition, purchase books and supplies, and other such items, or to assist students when emergencies arise. A \$5 charge is assessed against each loan.

**Emergency Loans:** Emergency loans are available to The University of Texas-Pan American students needing assistance in paying for registration costs. Funds for the emergency loans must be paid back to the University during the semester. An applicant will be required to pay a \$15 processing fee per semester. Students may borrow up to the amount of registration costs. Applications and information about the Emergency Loan program are available at the Student Loan Collections Office.

## Scholarships

The Office of Student Financial Aid administers and awards a large number of scholarships. The deadline to apply for most academic scholarships is January 15. For a complete list of scholarships and application requirements, request a *Scholarship Handbook* from the Office of Student Financial Aid.

## Tuition Waiver

**Mexican Nationals:** Citizens of Mexico may apply at the International Student Office for a Non-Resident Tuition Waiver. A student must be enrolled full-time and must apply before the required deadline dates. For information about this program, contact the International Student Office.

**Hazlewood Act for Veterans:** Texas Veterans of World War I, World War II, the Korean War or Vietnam who have no remaining Veterans Administration educational benefits may be exempt from payment of tuition fees, laboratory fees and individual instruction fees. For more information regarding exemptions under this act, contact the Financial Aid Office. Veterans applying under this act will be required to submit a Free Application for Federal Student Aid (FAFSA) to ACT in Iowa. This application should be submitted four months prior to enrollment. The FAFSA and the Hazlewood Act application are available at the Financial Aid Office.

**Tuition and Fee Exemption for Foster Care Students:** Students who were in foster care or other residential care under the conservatorship of the Department of Protective and Regulatory Services on or after the day preceding an eligible student's 18th birthday may apply for the tuition and fee exemption. Information is available at the Financial Aid Office.

**Tuition and Fee Exemption for Children of Veterans of the Armed Forces:** Children of members of the armed forces who are or were killed in action, who die or died while in service, who are missing in action or whose death is documented to be directly caused by illness or injury connected with service in the armed forces of the United States, are entitled to an exemption from payment of all dues, fees, and charges (excluding only student property deposits, student service fees, and lodging, board, or clothing) that would otherwise be paid to attend UT Pan American.

**Tuition and Fee Exemption for Children of Disabled Firemen and Peace Officers:** Children of firefighters or peace officers who were disabled or killed in the line of duty may be eligible for an exemption from tuition. Information is available in the Financial Aid Office.

**Tuition and Fee Exemption for Blind and Deaf Students:** Blind or deaf individuals may be eligible for exemption from payment of tuition if appropriately certified by a state vocational rehabilitation agency. Information is available from the Financial Aid Office.

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# ACADEMIC INFORMATION

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## Academic Fresh Start

**Undergraduate Programs:** An applicant for admission who is a Texas resident may seek to enter this institution pursuant to the "academic fresh start" statute, *Texas Education Code*, Paragraph 51.929. If the applicant informs the admissions office in writing of the election, the institution for admissions purposes will not consider academic course credits or grades earned by the applicant 10 or more years prior to the starting date of the semester in which the applicant seeks to enroll. An applicant who makes the election to apply under this statute may not receive any course credit for courses taken 10 or more years prior to enrollment.

**Postgraduate/Professional Programs:** An applicant who has earned a baccalaureate degree under the "academic fresh start" statute, *Texas Education Code*, Paragraph 51.929, will be evaluated on only the grade point average of the course of work completed for that baccalaureate degree and the other criteria stated herein.

## Accreditation

Accreditation refers to positive review by the regional association responsible for determining educational standards in the region where the school is located. The University of Texas-Pan American is accredited by the Southern Association of Colleges and Schools and maintains the standards set forth by this agency. UT Pan American will consider for transfer only that coursework from institutions accredited by the designated regional association. Additionally, the University will not award credit or recognize degrees from institutions that do not follow a traditional educational structure, *i.e.* institution does not require in-residence coursework, does not have teaching faculty, traditional campus or support facilities and/or does not have a limit of non-traditional courses accepted for credit through exams, life experience, military service, etc., regardless of their accreditation status.

## Advanced Level Work

3000-4000 numbered courses are advanced or upper division courses. 3000 numbered courses are designated as junior level and 4000 numbered courses are designated as senior level. Approval of the Department Chair or Dean of the School is required for students to enroll in advanced courses who have not reached junior standing. Students who have not passed all portions of the TASP exam, may not enroll in any advanced level (upper division) coursework if, upon completion of the work, the student would have completed 60 or more hours.

## Attendance Policy

Regular attendance in all meetings of courses for which is student is registered is expected. When a student is absent excessively (when in the judgment of the instructor the student has missed more work than can be made up successfully), the student may be dropped from the course with a grade of "DP" or "DF." The Office of Admissions and Records will notify the student that he/she has been dropped from the course. A student who enrolls for a course and then does not attend is considered absent from class until the student officially drops the course. If you do not plan to attend, you must officially drop or withdraw through the Office of Admissions and Records by the published deadline dates. Students will be responsible for all tuition, fees and grades received in classes in which they do not officially drop or withdraw. (Note: Refer to the Schedule of Classes for refund periods for drops and withdrawals.)

## Auditing Classes

Students must obtain special permission from the instructor on record to audit or visit a class. Students who wish to audit graduate classes (5000-7000 level) must be eligible to enroll in the course for credit before he/she will be allowed to audit. Students auditing classes do not receive academic credit and do not have the course(s) listed on their academic record. One may enroll as an auditor *at any time* by: (1) obtaining a *Class Audit Form* from the Office of Admissions and Records, (2) having it approved by the instructor of the class to be audited, (3) paying the required fee at the Office of Payments and Collections, and (4) use the receipt as an admission card to the class. Such approval may be granted only when space is available and if the instructor permits the student (or non-student) to be a visitor. Instructors reserve the right to refuse any request to visit a course. Enrollment as an auditor does not permit the enrollee to take examinations, have tests or other papers checked by the instructor, or to participate in the class discussion. Audited courses are not posted on the student's permanent record. Audit fees (\$20) are non-refundable and may not be appealed.

## Census Date

The official census date for The University of Texas-Pan American is the 12th class day for regular fall and spring semesters or the fourth class day for summer sessions.

## Change of Address and/or Telephone

If a student changes his/her address or telephone number, the student is expected to notify the Office of Admissions and Records in writing at once. The student will be held responsible for any communication from the University offices sent at the address last given to the Office of Admissions and Records and may not claim indulgence on the plea of having moved the lodgings, and therefore, of not having received the communication. Students whose mail is returned to the University will not receive additional communication until an address change has been submitted.

## Classification

Students are classified according to the number of semester hours of college credit which they have earned.

*Undergraduate students* are classified as follows:

Freshmen	0 – 29	earned hours
Sophomores	30 – 59	earned hours
Juniors	60 – 89	earned hours
Seniors	90 or more	earned hours
Specials	undergraduate students who hold a bachelor's degree from an accredited institution.	

*Graduate students* are students who have an undergraduate degree and have been accepted in the graduate program. *Special Graduates* are students who have a graduate degree and are continuing in a graduate program.

## Course Numbers

Courses are numbered to show both the collegiate level at which they are offered and the semester hour value of the course. The first digit shows the level and the second digit shows the credit hours. The last two digits are merely departmental designations. For example, Spanish 1301 shows that the course is given in the freshman year and carries three hours of credit per semester. All courses ending in the numbers 87 and 88 are honors courses.

1000 numbered courses	Freshman level
2000 numbered courses	Sophomore level
3000 numbered courses	Junior level
4000 numbered courses	Senior level
5000 numbered courses	Graduate level — limited to students accepted to the Graduate School only and are usually offered with a 4000 level course. (Students cannot receive credit in the 5000 level course if the student already has credit for the comparable 4000 level course).
6000 numbered courses	Graduate level — limited to students accepted to the Graduate School only
7000 numbered courses	Graduate level — limited to students accepted to the Graduate School only

*\*Note that students must have been accepted to the Graduate School to officially enroll or audit graduate level coursework.*

## Credit by Examination

The University of Texas-Pan American offers college credit to qualified students by examination for approved courses and examinations (listed below). Credit will not be posted on the student's permanent record (transcript) until the student has earned a minimum of 6 semester hours at UT-Pan American. A student may receive up to 45 hours undergraduate credit by examination. Test scores must be sent directly from the testing agency; student or hand-carried copies will not be accepted. For further information regarding credit by examination, contact the UT Pan American Testing Center, Student Services Building Room 153, 210/381-2247. Credit available by examination is as follows:

<b>ACT</b>	American College Test Advanced Placement <i>Advanced placement will be recorded on the student's official transcripts as credit received (CR).</i>
<b>CEEB-AP</b>	College Entrance Examination Board Advanced Placement <i>To be eligible to receive credit by means of an Advanced Standing Examination, students must meet the following conditions: (1) the student must satisfy the Department Chair that he/she has the proper background to qualify for the test over which the student desires to be examined. The application for the test must be approved by the appropriate school dean. (2) The student must make a minimum grade of "B" in order to receive credit for the course. Successful completion of an advanced standing examination will be recorded on the student's official transcripts as credit received (CR).</i>
<b>CEEB-ACH</b>	College Entrance Examination Board Achievement Tests
<b>CLEP</b>	College Level Examination Program <i>Successful completion of a Subject Examination will be recorded on the student's official transcripts as credit received (CR). Unsuccessful attempts to earn credit by examination will not be recorded on the student's official transcript.</i>
<b>UTPA-LOC</b>	UT Pan American Local Examinations for Credit

<i>UTPA Course(s)</i>	<i>Title</i>	<i>Test Used</i>	<i>Min. Score (Grade)</i>
<b>Accounting</b>			
ACC 2421, 2329	Intro to Financial Acct, Fund of Managerial Acct	CLEP	53 (CR)
<b>Biology</b>			
BIOL 1401,1402	General Biology I & II	CEEB-AP CLEP	5 (A); 4 (B); 3(C)—faculty review 49 (CR)
<b>Chemistry</b>			
CHEM 1401	General Chemistry	CEEB-ACH	600+ (exempts student from 1401; no grade)
CHEM 1401,1402	General Chemistry I & II	CEEB-AP CLEP	5 (A); 4 (B); 3 (C)—faculty review 48 (CR)
<b>Computer Information Systems</b>			
CIS 1301	Intro to Computers	CLEP	51 (CR)
<b>Computer Science</b>			
C S 1380	Intro to Computer Sci.	CEEB-AP	5 (A); 4 (B); 3 (C)—faculty review
<b>Economics</b>			
ECO 2353	Prin of Economics I	CLEP	53 (CR)
ECO 2354	Prin of Economics II	CLEP	55 (CR)
<b>Educational Psychology</b>			
EDCI 4302	Educational Psychology	CLEP	47 (CR)
<b>English</b>			
ENG 1301	Composition	ACT CLEP	English score of 30 or higher (CR) 48 + departmental essay
ENG 1302	Rhetoric & Comp	CLEP ACT	60+); 4 (B); 3 (C)—faculty review English score of 31 or higher (CR)
ENG 2303	Rdngs Amer Lit	CLEP	50 (CR)
ENG 2305	Rdngs English Lit	CLEP	50 (CR)
<b>French</b>			
FR 1321,1322	Beginning French I, II	UTPA-LOC	minimum grade of "B"
<b>General Business</b>			
GENB 3337	Business Law I	CLEP	54 (CR)
<b>German</b>			
GERM 1331,1332	Beginning German I, II	UTPA-LOC	minimum grade of "B"
<b>History</b>			
HIST 1333	Civiliz thru Centuries I	CLEP	50 (CR)
HIST 1334	Civiliz thru Centuries II	CLEP	54 (CR)
HIST 1333, 1334	Civiliz thru Centuries I, II	CEEB-AP	5 (A); 4 (B); 3 (C)— faculty review
HIST 2313	American Heritage I	CEEB-AP CEEB-ACH CLEP	5 (A); 4 (B); 3 (C) —faculty review 550+ (CR — no grade) 46 (CR)

HIST 2314	American Heritage I	CLEP	46 (CR)
<b>Management</b> MANA 3361	Prin of Management	CLEP	53 (CR)
<b>Marketing</b> MARK 3371	Prin of Marketing	CLEP	53 (CR)
<b>Math</b> MATH 1340	College Algebra	CLEP	50 CR)
MATH 1356	Trigonometry	CLEP	49 (CR)
MATH 1360	Differential Calculus;	CEEB-AP	5 (A); 4 (B); 3 (C) —faculty review
MATH 1370, 2342	Integral Calculus I & II		
MATH 1370	Integral Calculus I	CLEP	47 (CR)
<b>Physics</b> PHYS 1401, 1402	General Physics I & II	CEEB-AP	5 (A); 4 (B); 3 (C) —faculty review
<b>Political Science</b> POLS 2313	US & TX Govt & Policies	CLEP	47 (CR)
<b>Psychology</b> PSY 1313	Intro to Psychology	CLEP	47 (CR)
<b>Sociology</b> SOC 1313	Prin of Sociology	CLEP	47 (CR)
<b>Spanish</b> SPAN 1301	Beginning Spanish I	CEEB-AP	5 (A); 4 (B)
SPAN 1301,1302	Beginning Spanish I, II non-speaking	UTPA-LOC	minimum grade of "B"
1303,1304	Beginning Spanish I, II native speaker	UTPA-LOC	minimum grade of "B"
2301,2302	Intermediate Spanish I,II non-speaking	UTPA-LOC	minimum grade of "B"
2307,2308	Intermediate Spanish I,II native speaker	UTPA-LOC	minimum grade of "B"

### Dean's List (*see Honor Roll*)

### Degree Plan

In general, a student may follow the degree requirements listed in this catalog by the respective departments of the University, thus planning a schedule of courses. However, having a Degree Plan on file is a requirement for graduation, and a student is well advised to have the Degree Plan drawn up by the Department Chair on the proper form as soon as possible after the close of the sophomore year, before any advanced courses are taken. This will preclude the possibility of taking courses which will not satisfy requirements for the degree which the student seeks. This precaution is particularly appropriate in the case of transfer students and those who have changed their major.

Upon request, the Department Chairs will aid students in preparing Degree Plans that may be required by institutions or agencies other than The University of Texas-Pan American. As an illustration, some public school systems require prospective teachers who have not completed their degrees to file an approved Degree Plan in the superintendent's office.

### Disabled Persons

UT Pan American will not discriminate against any individual on the basis of a disability or because of Vietnam Era/Disabled Veteran Status in either admission to, or treatment of employment in its programs and activities. Students with disabilities should refer to the UT Pan American Student Guide for more information, and/or contact either the Disabled Student Services Coordinator in the Student Services Building Room 627, 210/381-2585 or the Equal Opportunity Office in the Administration Building Room 335, 210/381-2127.

## **Dropping a Course**

A student is "dropping" a course(s) if he or she remains enrolled in a minimum of one credit hour after all course drops have been completed. (If dropping *all classes*, refer to the section on *Withdrawals*.) To drop a course(s) after the official census date (after all registration functions are completed for the semester), a student must (1) obtain a class drop form from the Office of Admissions and Records, (2) obtain the signature of the instructor of record on the form, and (3) return the completed form to the Office of Admissions and Records, Student Services Building, Room 108.

All course drops must be completed at least two weeks prior to the end of a regular semester and one week prior to the end of a summer semester (refer to the University Calendar for drop deadlines). A student dropping a course during the first 30 calendar days of the semester (10 days in a summer session) will receive a DR on the permanent record for the course dropped. If a course is dropped later in the semester, the student will be given a grade of DP or DF by the instructor for the course dropped.

If a student chooses not to attend a class or classes, he or she is responsible for officially dropping or withdrawing through the Office of Admissions and Records. Students who decide not to attend and do not officially notify Admissions and Records may be responsible for tuition, fees and any other circumstances resulting from failure to officially drop or withdraw. Students must not assume that they will "automatically" be dropped from their classes if they do not attend or do not pay. (*If the student has requested some form of financial assistance, payment may have been posted to his or her record.*) Refer to the published *Schedule of Classes* for refund schedules.

## **Enrollment Verification**

Enrollment for a given semester cannot be certified until after the official census date for the semester. After this date, students may be classified as full-time, half-time, less than half-time, not enrolled or withdrawn.

### **Full-time Undergraduate**

An undergraduate student who is enrolled for at least 12 semester hours of credit during a regular semester, or at least 6 semester hours of credit during a summer session, is considered full-time.

### **Full-time Graduate**

A graduate student who is enrolled for at least 9 semester hours of credit during a regular semester, or at least 4 semester hours of credit during a summer session is considered full-time. A half-time graduate student is enrolled for at least 6 hours of credit during the regular semester, or 3 hours of graduate credit during a summer session.

## **Faculty Artist Series**

During the school year, the Music Department presents a series of performances by regular faculty members along with student recitals. Included in these recitals are pianists, violinists, and professional singers. Also performing for students and the public are the Choir, the UT Pan American Folkloric Dance Company, the concert Dance Ensemble, the concert Band, the Jazz Ensemble, the South Texas Chamber Orchestra, the Mariachi, and the Valley Symphony Orchestra and Chorale.

## **Family Educational Rights and Privacy Act of 1974**

**Institutional Policy:** The Family Educational Rights and Privacy Act of 1974 is a Federal law which states (a) that a written institutional policy must be established and (b) that a statement of adopted procedures covering the privacy rights of students be made available. The law provides that the institution will maintain the confidentiality of student education records.

The University of Texas-Pan American accords all the rights under the law to all students. No one outside the institution shall have access to nor will the institution disclose any information from students' education records without the written consent of students except to personnel within the institution, to officials of other institutions in which students seek to enroll, to persons or organizations providing students financial aid, to accrediting agencies carrying out their accreditation function, to persons in compliance with a judicial order, and to persons in an emergency in order to protect the health or safety of students or other persons. All these exceptions are permitted under the Act.

Further, the University may disclose to an alleged victim of any crime of violence (as that term is defined in Section 16 of Title 18, United States Code) the results of any disciplinary proceeding conducted by such institution against the alleged perpetrator of such crimes with respect to such crimes.

Within The University of Texas-Pan American community, only those members, individually or collectively, acting in the students' educational interest are allowed access to student education records. These members include personnel in the Office of Admissions and Records, Business Affairs, Student Affairs, and academic personnel within their limitations of their need to know.

At its discretion the institution may provide Directory Information in accordance with the provisions of the Act to include: student name, address, telephone number, date and place of birth, major field of study, dates of attendance, degrees, honors and awards received, the most recent previous educational agency or institution attended by the student, participation in officially recognized activities and sports, and weight and height of athletic teams. Students may withhold Directory Information by notifying the Office of Admissions and Records in writing during the first 12 class days of a fall or spring semester, or the first four days of a summer semester.



Request for non-disclosure will be honored by the institution for only the current enrollment period; therefore, authorization to withhold Directory Information must be filed each semester or term in the Office of Admissions and Records.

The law provides students with the right to inspect and review information contained in the education records, to challenge the contents of their education records, to have a hearing if the outcome of the challenge is unsatisfactory, and to submit explanatory statements for inclusion in their files if they feel the decisions of the hearing panels to be unacceptable. The Assistant Vice President for Academic Affairs at The University of Texas-Pan American has been designated by the institution to coordinate the inspection and review procedures for student education records, which include admissions, personal, academic, financial, cooperative education, and placement records. Students wishing to review their education records must make written requests to the Assistant Vice President for Academic Affairs listing the item or items of interest. Only records covered by the Act will be made available within 45 days of the request. Students may have copies made of their records with certain exceptions, (e.g., an official copy of the academic record for which a financial "hold" exists, or a transcript of an original or source document which exists elsewhere). These copies would be made at the students' expense at prevailing rates. Education records do not include records of instructional, administrative, and educational personnel which are the sole possession of the maker and are not accessible or revealed to any individual except a temporary substitute, records of the law enforcement unit, student health records, employment records or alumni records. Health records may be reviewed by the physicians of the students' choosing.

Students may not inspect and review the following as outlined by the Act: financial information submitted by their parents; confidential letters and recommendations associated with admissions, employment or job placement, or honors to which they have waived their rights of inspection and review; or education records containing information about more than one student, in which case, the institution will permit access only to that part of the record which pertains to the inquiring student. The institution is not required to permit students to inspect and review confidential letters and recommendations placed in their files prior to January 1, 1975, provided those letters were collected under established policies of confidentiality and were used only for the purposes for which they were collected.

Students who believe that their education records contain information that is inaccurate or misleading, or is otherwise in violation of their privacy or other rights may discuss their problems informally with the Assistant Vice President for Academic Affairs. If the decisions are in agreement with the students' requests, the appropriate records will be amended. If not, the students will be notified within a reasonable period of time that the records will not be amended; and they will be informed by the Assistant Vice President for Academic Affairs of their right to a formal hearing. Student requests for a formal hearing must be made in writing to the Vice President for Student Affairs.

Students who believe that the adjudications of their challenges were unfair, or not in keeping with the provisions of the Act may request in writing, assistance from the President of the institution. Further, students who believe that their rights have been abridged, may file complaints with The Family Educational Rights and Privacy Act Office (FERPA), Department of Education, Washington, D.C. 20201, concerning the alleged failures of The University of Texas-Pan American to comply with the Act.

Revisions and clarifications will be published as experience with the law and the institution's policy warrants.

In compliance with P.L. 93-380 Education Amendments of 1974, the following information is provided concerning students records maintained at The University of Texas-Pan American:

I. Areas in which student records are maintained:

A. Academic Records

1. Office of Admissions and Records — David Zuniga
2. Schools, Departments and Faculty Offices
3. Foreign Student Adviser's Office — Santiago Villanueva

B. Student Affairs Records

1. Placement and Testing Office — Derly Guajardo
2. Office Student Affairs — Judy Vinson
3. Student Health Services Office — Mary Ann Gordon
4. Foreign Student Adviser and Housing Director's Office — Santiago Villanueva

C. Financial Records

1. Business Affairs Office — Esequiel Granado
2. Financial Aid Office — Arnold Trejo

II. Directory Information — This information may be released to the general public without the written consent of the student. A student may request that all of the directory information be withheld from the public by making written request to the Office of Admissions and Records during the first 12 class days of a fall or spring semester, or the first four class days of a summer term. The request will apply only to the current enrollment period. The following is to be included as directory information:

- A. Name
- B. Current and Permanent Address
- C. Date and Place of Birth
- D. Telephone

- E. Major(s) and/or Minors(s)
- F. Current Class Schedule
- G. Numbers of Hours Enrolled Current Semester
- H. Classification
- I. Participation in Officially Recognized Activities and Sports
- J. Weight and Height of Members of Athletic Teams
- K. Dates of Attendance
- L. Degrees and Awards Received
- M. All Previous Educational Agencies or Institutions Attended

Any person requesting such information must complete an "Information Request Form," available in the Office of Admissions and Records.

III. Review of Record — Any student who desires to review his or her records may do so upon request to the appropriate office immediately responsible for the record.

IV. Challenge to accuracy of record-keeping — Any student who desires to challenge the accuracy of his or her record should follow the procedure outlined in The University of Texas-Pan American *Student Handbook*.

### Grade Change

If an error in computation, evaluation, or recording warrants a grade change, the instructor may process a grade change form through the Office of the Dean of the School. If the grade change is made after graduation, for a course taken prior to graduation, the change request form must have written justification by the instructor, recommendation of the school dean, and be approved by the Council of Deans. Change of Grade Forms may not be released to students, and must be sent directly from the appropriate academic department.

### Grading System

UT Pan American is on a 4.0 semester system. The following grades are used to designate achievement in coursework. Their corresponding grade values and points are indicated.

A	Excellent	(4 grade points per semester hour)
B	Good	(3 grade points per semester hour)
C	Satisfactory	(2 grade points per semester hour)
D	Below Average	(1 grade point per semester hour — may not be assigned to graduate classes)
F	Failure	(0 grade points per semester hour)
P	Passing	(not considered in calculating grade points or attempted hours)
NP	No Pass	(not considered in calculating grade points or attempted hours)
IP	In Progress	(not considered in calculating grade points or attempted hours; for remedial courses only)
I	Incomplete	(not considered in calculating grade points or attempted hours)
CR	Credit	(not considered in calculating grade points or attempted hours; however, hours are counted in total earned hours.)
NC	No Credit	(not considered in calculating grade points or attempted hours)
DR	Course dropped	(not considered in calculating grade points or attempted hours)
DP	Drop Passing	(not considered in calculating grade points or attempted hours)
DF	Drop Failing	(considered as an "F" for calculating the grade point average)
W	Withdrawal from School	(not considered in calculating grade points or attempted hours)
WP	Withdrawal Passing	(not considered in calculating grade points or attempted hours)
WF	Withdrawal Failing	(considered as an "F" for calculating the grade point average)

**Attempted Hours:** The total number of hours for courses which a student has attempted, to including failing grades such as F, DF and WF. Repeated courses, failing grades over seven years old, incomplete grades, credit (CR) grades are not included in attempted hours.

**Earned Hours:** Hours earned are those courses for which passing grades or credit (CR) have been received and which have not been repeated during a later semester.

**Failing Grades (exclusion of):** All failing grades received in undergraduate courses seven or more years old shall be excluded from the grade point average computation, except in determining Graduate Admission GPA. (See section on Graduate Admission for additional information.) The failing grades *will not be removed* from the student's transcript, but will not be used to compute the GPA.

**Grade Point Average (GPA):** The grade point average (GPA) is computed by dividing the total grade points earned by the total semester hours attempted. (See the section on Graduate Admission for the special grade point calculation to determine admission to the Graduate School.) The *Cumulative* Grade Point Average is calculated using all coursework (excluding repeated courses) attempted. The *Current Semester* grade point average is calculated using only coursework attempted within a specific semester.

**Calculation of the Grade Point Average:** An illustration of the method of calculation of the grade point average follows:

Course	No.	Grade	Sem. Hours	Points Attempted	Total Points
ENG	1301	C	3 sem. hours	X 2 pts. per hr	= 6
MATH	1327	D	3 sem. hours	X 1 pt. per hr	= 3
HIST	2313	B	3 sem. hours	X 3 pts. per hr	= 9
CHEM	1401	F	4 sem. hours	X 0 pts. per hr	= 0
KIN	1201	A	2 sem. hours	X 4 pts. per hr	= 8

TOTAL ATTEMPTED HOURS = 15

TOTAL GRADE POINTS = 26

To calculate the GPA for this example, divide the grade points by the attempted hours as follows:  $26 \text{ divided by } 15 = 1.73$

**Grade Points:** Grade points are assigned based on the grade received multiplied by the number of credit hours. For example, a grade of A is equivalent to 4 grade points. If the course was offered for 3 credit hours, the grade points would be calculated as follows:

$$4 \text{ (for grade of A)} \times 3 \text{ (semester hours)} = 12 \text{ grade points.}$$

Grade points are assigned as follows:

Grade	Grade Points
A	4 pts.
B	3 pts.
C	2 pts.
D	1 pt.
F	0 pts.

**Incomplete Grades:** A grade of "I" may be given when a student has not completed the required work of a course within the allotted time of a regular semester or summer term if the instructor determines that the reasons for the work being incomplete are valid and that the grade of "I" is justified. A grade of "I" must be changed within one regular (fall or spring) semester from the date received, unless an extension is requested by the student's instructor. If a Change of Grade is not received by the instructor upon completion of the one regular semester, the grade will automatically be recorded as an "F" on the student's official transcripts.

**Improper Use of the "I" Grade:** A student must not be given an "I" grade to permit the student (1) time to prepare coursework in addition to that assigned the entire class, (2) time to repeat the entire course, or (3) opportunity to raise a grade for any reason other than the above approved reasons. Incomplete grades are not issued for student or faculty convenience; they may be issued for the reasons stated above only in the case of compelling, non-academic circumstances beyond the student's control.

**Quality of Work:** While a grade of "D" is considered passing in a subject, an overall average of "C" which corresponds to a grade point average of 2.0 must be maintained by the student if the student expects to graduate. (Note: refer to the section on Graduation as some majors have different GPA requirements.) The University of Texas-Pan American has certain specific grade requirements also. For example, the student must make a "C" in required Freshman English courses. The student must also make an average of C in both the major and minor fields. Students who expect to be certified as teachers are required to have a grade point average of 2.25 in both the major and minor fields. This applies to applicants for the elementary certificate and to those planning to teach under a secondary certificate.

**Repeated Courses:** When an undergraduate course is repeated (and the grade received is used in calculation of the GPA), only the last grade and hours attempted are used to calculate the grade point average. Repeated courses *will not be removed* from the student's academic record (transcript). (Note: Repeated courses will be used in determining the Graduate Admission GPA. Refer to the section on Graduate Admission for further information.)

### Honor Roll (Dean's List)

After each regular (fall or spring) semester an honor roll is published listing the names of all full-time undergraduate students

who have a grade point average of 3.5 or better for courses taken that semester. An Honor Roll is not produced during summer sessions. Additionally, as graduate students must maintain a high GPA to remain in the Graduate School, graduate students are not included on the honor roll.

### Identification Cards

Identification cards are issued through the supervision of the Assistant Dean of Students. Use of student ID cards is governed by the following conditions:

1. It remains the property of The University of Texas-Pan American and must be surrendered to any faculty member, administrative official, or police officer of the University on demand.
2. It must be presented for:
  - a. Any school- or faculty-sponsored activity
  - b. Admission to all varsity and freshman athletic events
  - c. Identification for cashing checks on campus
  - d. Authorization to resell books to the Bookstore or Student Book Exchange
  - e. Checking out equipment from the University Center recreation room checkout counter
  - f. Identification for receipt of transcripts at the Office of Admissions and Records
  - g. Use of services at the Student Health Center
  - h. Admission to selected campus activities
3. This card is non-transferable. Loss or mutilation must be reported to the Office of Student Development, University Center Room 205. **A charge of \$7 will be made for replacements. Fees are subject to change.** Entering Freshmen and transfer students should have their ID cards processed during orientation or registration.

### Maximum Course Load

The normal load for a full-time graduate student is 9 semester hours. A student may be permitted to enroll for 15 semester hours with the approval of his or her graduate adviser and the Dean of the School.

### Name Change

A student (or former student) may change the full, legal name on his or her permanent academic record by completing a *Change of Name* form and submitting the appropriate documentation (as follows) to The Office of Admissions and Records, Student Services Building, Room 108.

1. *Misspelling* — student must present a copy of the birth certificate.
2. *New Legal Name* — student must present a copy of the signed court order showing the authorized new legal name.
3. *Marriage* — if a student wishes to assume her husband's name by repute following marriage, the student must present a copy of the marriage certificate.
4. *Divorce* — a student who wishes to discontinue the use of her married name and resume the use of her former maiden name, or another name, must present a divorce decree or signed court order showing court restoration of the maiden, or other, name.

### Non-Credit Enrollment

A student who enrolls in a course for credit may change the enrollment to non-credit by completing a *Non-Credit* form in the Office of Admissions and Records, Student Services Building, Room 108, no later than 30 calendar days in a regular semester or 10 calendar days in a summer session from the date classes begin.

### Prerequisite

This term means that specified requirements must be met before one can enroll in a course. Specific prerequisites are listed in course descriptions.

### Probation

Students are placed on scholastic probation when they fail to achieve the required overall grade point average. Students may be placed on disciplinary probation for infraction of any University regulation. In either case, they must satisfy specific requirements before they can return to a non-probationary status. Refer to the section on *Scholastic Probation and Suspension* for further information.

### Registration

The only way to become a member of a class is to register for it through the proper registration procedure. A student may not receive credit for a course for which he or she is not officially registered, and may not be added to the official classroll or grade sheets.

**Telephone Registration:** Is available to currently enrolled students, and students who apply by the published deadline for telephone registration. Academic Advisement is mandatory to receive a PIN (personal identification number) and be eligible for registration by telephone. Students with admission, disciplinary, financial or TASP holds will not be permitted to register until such time as the "hold" has been cleared. A schedule change period by telephone is scheduled prior to the

beginning of the appropriate semester. Students may not be permitted to add classes after this scheduled drop/add period.

**Arena Registration:** Students who are accepted for admission and who did not participate in telephone registration, may register at arena registration. Students must obtain a valid Registration Packet from the Office of Admissions and Records and report on or after the scheduled appointment time. Students will not be permitted to enter prior to this appointment time. Students will be charged an additional \$25 arena registration fee at this time.

If a student chooses not to attend a class or classes, he or she is responsible for officially dropping or withdrawing through the Office of Admissions and Records. Students who decide not to attend and do not officially notify Admissions and Records may be responsible for tuition, fees and any other circumstances resulting from failure to officially drop or withdraw. *Students must not assume that they will "automatically" be dropped from their classes if they do not attend or do not pay. (If a student has requested some form of financial assistance, payment may have been posted to his or her record.)* Refer to the published *Schedule of Classes* for refund schedules.

## Regular Semester

Refers to any 15-week fall or spring semester.

## Residency

A prospective student is considered a Resident of the State of Texas based on the following:

1. The student is a U.S. citizen, or has immigrated to the United States. If the student immigrated to the U.S., has been awarded immigrant status, and has received a Resident Alien card from INS, the card must show that it was issued one year prior to enrollment at UT Pan American before Resident tuition may be paid, and
2. The prospective student, or parents (if parents claim the student as a dependent on their federal income tax), must provide documentation as proof of being **gainfully employed** on a full-time basis for a period of one year (12 continuous months) in the State of Texas prior to enrolling at UT Pan American, before Resident tuition may be assessed.

**NOTE:** A student cannot establish residency by attending a college or university. Therefore, once a student enrolls at UT Pan American as a non-resident, the student will always be a non-resident until conditions number 1 and 2 above are met.

Students on visas are not eligible to establish residency until they have met the above requirements. Further, the student must have been out of school for one year (number 2 above) before being eligible to pay in-state residency tuition.

*Due to space limitations, this Catalog does not cover all aspects related to resident and non-resident tuition.* For further information, contact the Office of Admissions and Records, Student Services Building, Room 108, 210/381-2209.

The student is responsible for registering under the proper residence classification and for providing documentation as required. If there is any question as to right to classification as a resident of Texas, it is the student's obligation, prior to or at the time of enrollment, to raise the question with the administrative officials of the institution for official determination. Students classified as Texas residents must affirm the correctness of that classification as a part of the admission procedure. If the student's classification as a resident becomes inappropriate for any reason, it is the responsibility of the student to notify the proper administrative officials at the institution. Failure to notify the institution constitutes a violation of the oath of residency and may result in disciplinary action.

## Scholastic Probation and Suspension — Undergraduate

Students are expected to meet certain minimal academic standards in work completed in post-secondary education. Students who fail to maintain these minimum standards will be placed on academic probation, or academic suspension, as appropriate. In determining whether a student will be placed on academic probation or suspension, all grades earned by the student (*only the last grade is used if the student has attempted the course more than once*) will be included in the computations of the grade point average.

The current Academic Probation and Suspension Policy for undergraduate students at The University of Texas-Pan American is as follows:

1. Academic probation or suspension will be determined each regular (fall or spring) semester on the basis of the student's current semester and cumulative grade point average.
2. An undergraduate student will be placed on academic probation as follows:
  - a. *Freshman* — whenever the student's cumulative grade point average is below 1.70.
  - b. *Sophomore* — whenever the student's cumulative grade point average is below 1.80.
  - c. *Junior and Senior* — whenever the student's cumulative grade point average is below 2.00.
3. An undergraduate student will be placed on academic suspension for one regular semester whenever the student enters a semester on academic probation and does not remove himself/herself from academic probation. If the student's current semester grade point average is 2.25 or above for a fall or spring semester, the student will continue on probation.

Level of Academic Status	GPA criteria
GOOD STANDING	Cumulative GPA is 2.00 or above (1.70 in case of Freshman or 1.80 in case of Sophomore)
PLACED ON ACADEMIC PROBATION	Cumulative GPA has dropped below 2.00 (1.70 in case of Freshman or 1.80 in case of Sophomore)
CONTINUED ON ACADEMIC PROBATION	Previously on Academic Probation and Cumulative GPA is below 2.00 (1.70 in case of Freshman or 1.80 in case of Sophomore) but current semester GPA is 2.25 or above.
ACADEMIC SUSPENSION	Previously on Academic Probation and Cumulative GPA is below 2.00 (1.70 in case of Freshman or 1.80 in case of Sophomore) and current semester GPA is below 2.25.

4. A student on academic suspension may enroll for summer sessions for the purpose of raising the Cumulative GPA to the level required for good standing for the student's classification. (*Once placed on suspension for a semester, the suspension cannot be removed or changed to probation on the basis that the current GPA is a 2.25 or higher.*) Removal from suspension can be most efficiently accomplished by only enrolling for courses in which the student has earned a low or failing grade.
5. A student on academic suspension who raises the Cumulative GPA to the level required for good standing will be reinstated as a student in good standing following application to the Office of Admissions and Records for reinstatement.
6. If a student who has been suspended for failure to meet academic probation requirements feels that unusual circumstances warrant a review, the student may direct a written appeal to the Admissions Committee, in care of the Office of Admissions and Records, no later than one week prior to registration. The petition must detail the reasons for alleging that circumstances warrant special consideration and should indicate reasons why the circumstances will not reoccur. The Committee may reinstate a student who has not served the period of academic suspension only when convinced the best interests of both the University and the student will be served by such action.

**WARNING:** All students are responsible for knowing whether they are eligible to continue at the University. An ineligible student who nevertheless registers, or has registered by telephone prior to completion of the semester in which academic standing is determined, shall be dropped and cannot attend classes. *Students shall not receive special consideration for lack of knowledge of scholastic status, regardless of whether the student registered and paid fees.*

### Scholastic Probation and Suspension — Graduate

Grade points are assigned for graduate students as follows: 4 for each semester hour of A, 3 for B, 2 for C, 0 for F (D is not given). All grades earned (including those for repeated courses) will be used to compute the grade point average.

A minimum grade point average overall (cumulative) average of 3.0 (B) is required for a graduate degree. Every semester hour of C, therefore, must be balanced by one of A, since an overall average of B is required for a degree. Should graduate students make less than a B average (3.0 GPA) in a given semester, they will be placed on scholastic probation and warned that continuance is in jeopardy. During the following semester or summer school, they must recoup an overall B average or be automatically suspended. Students may be readmitted only after petitioning the Dean of the School and receiving approval from the Dean and the Council of Deans.

Students with other than clear admission are subject to criteria set forth under *General Admission Requirements*.

### Selection of Courses

The student should plan to satisfy during the freshman and sophomore years not only the General Requirements for a Bachelor's degree, but any introductory or prerequisite courses in the major and minor field, as specified by the departments. Also, he or she must, unless excused by waiver, enroll in one activity course in Kinesiology (physical education) each semester until these required hours are satisfied. Although each of the departments of the University lists many of the specific courses required in the major and minor areas, usually some choice of courses is permitted at the lower level, the advanced level, or at both levels. Choice is permitted when hours are specified as elective hours.

While the departments may not specify more than 36 hours in the major field (60 hours in the broad-field major) nor more than 18 hours in the minor field, students may take additional hours of work in both the major and minor fields if they wish to use elective hours. The student should develop an outline of required courses, supplementing it with those courses he or she wishes to take in satisfaction of any elective hours allowed by the department. Any deviation from courses required must be approved by the Department Chair and the Dean of the School, and must be incorporated into the student's Degree Plan. If deviations are made which subsequently are not approved, the student may find that these will merely add hours to graduation requirements.

Many courses listed in the catalog are not offered every semester. This is particularly the case with upper-level courses. In planning a program the student should ascertain that there is a likelihood that a particular course will be offered during the semester he or she plans to take it. Further, he or she should determine that the planned sequence of courses provides that

any prerequisite courses will be taken by the time the course for which they are prerequisite is scheduled to be taken. The same precaution is advised with reference to semester-hour (that is, class standing) prerequisites.

When students enter this University with the expectation of subsequently transferring to another institution, they should be certain to obtain a copy of the catalog of that other institution and use it as a guide of courses for which they will register at The University of Texas-Pan American. It is the student's responsibility to check the requirements, though a faculty adviser will be glad to help interpret requirements of other colleges.

Students who plan to graduate from The University of Texas-Pan American should consult the catalog sections concerning graduation, and the specific requirements and suggestions listed under their respective schools and departments to insure that all required work is satisfied. The department chairs and deans will be glad to help clarify matters about which the student may be uncertain.

It is expected that all entering freshmen will meet with academic advisers prior to or at the time of actual registration and that they will be counseled concerning the best selection of courses. Deans and department chairs are in their offices the week preceding registration for the purpose of advising students about course selections and schedules. Those above the freshman level who can do so are urged to seek advice during the year because of the difficulty of obtaining appointments the week before registration.

## **Semester Hour**

College credit is measured in terms of semester hours. Ordinarily, a class that meets one 50-minute period per week for a regular semester will carry a credit of 1 semester hour. Since the majority of classes meet three periods, or their equivalent, each week, these classes carry 3 semester hours of credit. Two or three laboratory hours per week are usually required for 1 semester hour of laboratory credit.

## **Student Academic Responsibilities and Appeals**

### **Academic Responsibilities**

Students are expected to inform themselves thoroughly concerning the regulations of the University and the course requirements for degrees and to make inquiries in case of doubt. It shall not be the University's responsibility should complications arise because of failure to follow regulations and requirements. Regulations will not be waived nor exceptions to requirements made on a plea of ignorance of the regulation or requirement. Students, therefore, should become familiar with all of the information related to the program contained in the printed University bulletins.

Students should work directly with the person in their major department who is assigned the responsibility of supervising their programs concerning course requirements and options, deficiencies, degree plan, and special regulations. Requests to waive regulations and/or requirements should be directed in writing to the Dean of the School. Students become responsible to deans: Each student, by registering, enters some school or division of the University and, except as to conduct, is thereafter under its jurisdiction with regard to the student's program of study and degree requirements.

### **Academic Appeals**

Periodically, misunderstandings arise with regard to academic expectations and final grades. Students wishing to appeal final grades or misunderstandings in academic standards should first discuss the matter with the instructor of the class. If no resolution occurs, and the student wishes to pursue the matter further, he or she should appeal in writing to the department chair involved. The department chair will respond in writing to the student within 10 class days of the receipt of the student's written appeal.

Pursuant appeals will be written and directed within 10 class days of the date of the department chair's decision to the School, College, or Division Academic Appeals Committee. The committee will consist of a panel of three faculty members, two of whom may not be from the department in which the appeal originated. The Dean/Director will appoint the panel members upon receipt of the written appeal and notify the student in writing of the date, time, and location of the hearing and the names of the members of the panel. The student and the faculty member involved may appear in person before the panel and present evidence and/or witnesses. The hearing will be closed to the public and no person other than the student, the faculty member involved, and panel members may be present. No person may represent the student or the faculty member.

After the Academic Appeals Committee has heard the appeal, it will deliberate and come to a decision. The committee's decision will be written and mailed or delivered in person to the student and faculty member within three class days of the close of the hearing. The student may appeal in writing within 10 class days to the Dean/Director. The Dean's/Director's decision will be final and must be mailed or delivered in person to the student within 10 class days of the receipt of the student's written appeal. Additional information is presented in the *Student Guide*.

## **Student Right to Know and Campus Security Act**

Student Right to Know and Campus Security Act of 1990 requires that colleges and universities take reasonable steps to publicize graduation rates and certain campus crime statistics. One purpose of this federal legislation is to give students, prospective students, parents of students, employees, and others who may be interested a better understanding of the frequency of serious crime on campus and, ultimately, to make this and other campuses safer.

The University of Texas-Pan American employs a professional police force. These officers are trained, certified law enforcement officers with the power of arrest. Their sworn duty is to protect all members of the University community.

All members of the University community should be aware of dangers to their personal safety. Crime happens on campus just as it happens off campus. If one is the victim of a crime or witnesses a crime, please report it and cooperate with the university police to ensure that the crime is properly investigated and prosecuted.

### Crimes Reported on the UT Pan American Campus:

	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993 (Jan.-Aug.)</u>
Murder	0	0	0	0
Rape	0	1	0	1
Robbery	0	0	0	0
<i>Number of arrests for:</i>				
Liquor Law Violations	0	0	0	0
Drug Abuse	0	0	0	0
Weapons Possession	0	0	0	0
Aggravated Assault	11	10	1	2
Burglary	10	28	35	41
Auto Theft	5	17	13	10

To report a crime call the University Police: 210/381-2737.

The University of Texas-Pan American encourages the reporting of crimes on campus, both by victims of crimes and witnesses to crimes. Furthermore, the University encourages cooperation with police officers to ensure the successful investigation and prosecution of crimes.

University policies and Texas Law prohibit the disruption of university operation and events, and regulate the use of alcoholic beverages on campus. Violators will be subject to prosecution under the law and the University's disciplinary code. University policies related to the possession, sale, and use of alcoholic beverages on campus are described in *The University of Texas-Pan American Student Guide*. Copies are distributed to all students at Student Orientation and are available on request in the Office of the Dean of Students, University Center Room 104.

Other policies that pertain to crime reporting and crime prevention, facilities access and security, authority of police, and related matters are contained in the *Student Guide*, in the University's *Handbook of Operating Procedures*, and a variety of leaflets and posters. All are available from the Office of Student Affairs and the Office of Public Information.

The following university offices are available to assist you:

University Police	381-2737	Counseling Center	381-2529
Office of Student Affairs	381-2147	Student Health	381-2511

### Summer Session

As part of its regular program, the University offers a Summer Session consisting of two five and one-half week terms. Classes given in the summer are arranged to meet the requirements of students who need to do summer work and are selected on the basis of the requests made by those who are enrolled during the spring term.

### Teaching Certificates

Consult the office of the Dean of the School of Education for full details on all certification requirements. Students may pursue work toward professional certification simultaneously with work toward a graduate degree. Candidates for the Master of Education degree should complete the academic requirements for the professional certificate as a classroom teacher, a counselor, an educational diagnostician, gifted education, a supervisor, or an administrator. Candidates for the Master of Arts or the Master of Science degree should complete the academic requirements for the professional certificate in the major field selected for the degree.

Candidates who already hold the master's degree may qualify for the professional certificate and are encouraged to seek certification in so far as it serves their educational and professional objectives. *Applicants for the professional certificate must hold the provisional certificate, which requires only three years of satisfactory teaching experience (except for the administrator's certificate, which requires only two years of satisfactory teaching experience) and must have completed all of the requirements for the appropriate master's degree.*

Because the provisional certificate is based upon the bachelor's degree, no more than 6 semester hours of the work used to obtain the master's degree may apply toward this certificate. These 6 hours may not also be applied toward the professional certificate.

An application for the professional certificate should be made in the Certification Office of the School of Education during the semester in which the certification requirements will be completed. Students may not qualify for a professional certificate at The University of Texas-Pan American unless they already hold the master's degree or have also completed all of the requirements for the appropriate master's degree.

### Texas Academic Skills Program (TASP)

The Texas Academic Skills Program (or TASP) is a comprehensive, state-wide program designed to ensure that students



attending public institutions of higher education in Texas have the necessary academic skills to perform effectively in college-level coursework. All students enrolling in a Texas public institution for the first time in September 1989 or thereafter **MUST, BY STATE LAW**, comply with TASP regulations. Students affected include, but are not necessarily limited to, those enrolling in degree programs, one- and two-year certificate programs containing at least 9 hours of general education courses, and students transferring to Texas public colleges/universities from private or out-of-state institutions.

**TASP, in part, requires the following:**

1. **Mandatory Testing and Assessment** — all students must be tested within the first 9 hours of entering a Texas public post secondary institution;
2. **Mandatory Orientation** — all new students to UT Pan American, including transfer and transient students, must attend an orientation session prior to being allowed to register for classes;
3. **Mandatory Academic Advisement** — all students who have not passed the TASP tests must be advised prior to registration each semester; and
4. **Mandatory Remediation (if indicated by assessment)** — the TASP test concentrates on three basic skills: reading, mathematics and writing. The standards for passing the tests represent the minimum knowledge students entering college in Texas should have in order to succeed academically. Remediation courses or programs are provided to help students overcome deficiencies identified from the assessment; students must remain in **continuous remediation** until they pass all sections of TASP.

**TASP exemptions:**

1. Students who earned 3 hours of college credit from any accredited college/university before September 1, 1989, are exempt from TASP; except that students entering teacher education programs are required to pass the TASP test regardless of when they started college. A student may not claim exemption from TASP for courses taken prior to Fall 1989 if the student has elected to have those courses not considered pursuant to the "Academic Fresh Start" statute. (*See also Academic Fresh Start.*)
2. Some students may be exempt from TASP based on scores received on ACT, SAT or TAAS. Standards are set by the Texas Higher Education Coordinating Board and are subject to change; to receive the most current information, check with the Admissions Office or the Counseling/Advisement Center. The student is responsible for informing the Office of Admissions and Records of his/her intent to request an exemption under this rule. This must be done within the first 12 class days in fall or spring or the first four days of the summer sessions. Supporting documents are required to be submitted.

**Transfer Students:**

1. After students have earned 9 or more hours of college credit from all Texas public colleges ever attended, they must have TASP scores sent to The University of Texas-Pan American before they can register for college level courses;
2. Students coming to The University of Texas-Pan American with less than 9 college hours from a Texas public college or university must take the TASP test during their first semester;
3. Students who have earned between 9 and 59 college hours from a private or out-of-state college/university must take the TASP exam within the first 9 hours of enrolling at a Texas public institution; if they have more than 59 hours they must *take* and *pass* TASP within the first 9 hours of enrolling.

**Other TASP rules:**

1. Students who fail one or more parts of the TASP test must register for developmental courses or enroll in remedial programs in each area they failed until they meet standards set by the State for each part of the TASP test. Standards are set by the Texas Higher Education Coordinating Board and are subject to change.
2. Students who have not passed all parts of the TASP test may not register for any 3000 or 4000 level courses if the number of college hours they already earned plus the number of hours for which they wish to register totals 60 or more hours.
3. The TASP test must be repeated by students who fail one or more parts of it. Only the sections(s) failed must be repeated.
4. A student may not graduate with a baccalaureate or associate's degree without having met state TASP passing standards.
5. Concurrent enrollment students and foreign students are subject to all TASP requirements.
6. Blind and Deaf students will not be subject to TASP requirements until 1995.
7. TASP scores are considered official only if they are sent directly from the testing company to the University of Texas-Pan American, or if they appear on an official transcript from another Texas college/university.

TASP at the University of Texas-Pan American is coordinated through the Office of Admissions and Records and the Learning Assistance Center. Call 210/381-2529 or 210/381-2735 if you have any questions about the TASP rules or about your TASP status. The TASP Registration Bulletin can be obtained from the Placement and Testing Office, Student Services Building, Room 153 or from a high school counselor's office.

## Transcripts

A student may secure an official transcript of his or her University of Texas-Pan American record at a cost of \$5 per copy. The term *transcript of records* is understood to refer to the recorded results of the student's work in the classroom and is a comprehensive record of an individual's total academic progress at The University of Texas-Pan American. This statement will contain all the important facts pertaining to the student's admission, academic level, and scholarship. No partial or incomplete classroom records (for example, with grades of "F" omitted) will be given. *Students who owe debts to the University may have their official transcripts withheld until the debts are paid.*

V.T.C.A., Education Code, Title One, Section 4.29, provides that "no person may buy, sell, create, duplicate, alter, give, or obtain or attempt to buy, sell, create, duplicate, alter, give, or obtain diploma, certificate, academic record, certificate of enrollment, or other instrument which purports to signify merit or achievement conferred by an institution of education in this state with the intent to use fraudulently such document or to allow the fraudulent use of such document."

"A person who violates this Act or who aids another in violating this Act is guilty of a misdemeanor and upon conviction is punishable by a fine of not more than \$1,000 and/or confinement in the county jail for a period not to exceed one year."

## Upper Division

See explanation under *Advanced Level Work*.

## Varsity Athletes

To be in compliance with Division I NCAA eligibility requirements for athletic participation and/or athletically related financial aid, a student athlete must meet the following "progress towards graduation" requirements in addition to the University's grade point progress requirements stated under *Scholastic Probation and Suspension*.

1. Enrollment during each regular semester must not drop below 12 semester hours.
2. Subsequent to the student athlete's first academic year in residence and prior to each term in which a season of competition begins, 24 hours of additional credit required for a baccalaureate degree in a designated program of studies must be accumulated since the beginning of the student athlete's last season of competition.

## Withdrawal

To withdraw from school a student must complete a formal withdrawal procedure through the Office of Admissions and Records at least two weeks prior to the end of a regular semester or one week prior to the end of a summer semester. Withdrawals must be requested by completing the appropriate withdrawal form, or in writing, to the Office of Admissions and Records, Student Services Building, Room 108, 210/381-2201.

A student withdrawing during the first 30 calendar days (10 calendar days in a summer session) will receive a "W" on the permanent record for each course in which the student was enrolled. If the student withdraws later in the semester, he or she will be given a grade of "WP" or "WF" by the instructor for each course in which the student was enrolled. Refer to the published *Schedule of Classes* for refund periods.

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# Graduation

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## Application for Degree

All students who intend to receive a degree from The University of Texas-Pan American must submit a completed Application for Degree form to the Office of Admissions and Records by the published deadlines in the University Calendar. Applications received after the deadlines will be processed for the next available graduation date. *(These deadlines are necessary in order for prospective graduates to be notified of any deficiencies in time to register for the appropriate coursework.)*

## Graduation Fee

A non-refundable fee of \$15 is charged for undergraduate and graduate degrees. This fee is payable at the Office of Payments and Collections at the time the candidate presents the application for graduation to the Office of Admissions and Records. This fee is used to pay for processing applications for graduation, music, graduation speakers, postage, diplomas and other expenses associated with graduation.

## Transfer of Graduation Date

Prospective graduates who have submitted their Application for Degree form and do not meet graduation requirements for that graduation date must "transfer" their application to a later graduation date. Students will be required to pay an additional \$5 fee each time the graduation date is transferred.

## Commencement Exercises

The University of Texas-Pan American confers degrees three times each year — in December, May and August. Commencement exercises are scheduled for December and May only. August graduates may attend the December commencement exercises.

## Regalia (Cap and Gown)

All students participating in the commencement ceremony are required to purchase the proper graduation regalia from the University Bookstore. (No students will be permitted to participate without the proper regalia.)

## Correspondence

In order to insure that information regarding graduation requirements, deficiencies and commencement exercises are received on a timely basis, the student's correct address must be on file with the Office of Admissions and Records. Prospective graduates will not receive special consideration for lack of knowledge of graduation requirements, deficiencies or deadlines.

## Degree Plan

In general, a student may follow the degree requirements listed in this catalog by the respective Departments of the University, thus planning a schedule of courses. However, having a Degree Plan on file is a requirement for graduation, and a student is well advised to have the Degree Plan drawn up by the Department Chair on the proper form as soon as possible to preclude the possibility of taking courses which will not satisfy requirements for the degree the student seeks.

Students seeking an associate's degree are expected to file an official degree plan with their major department during their first semester of enrollment. Students seeking a bachelor's degree are expected to file an official degree plan with their major department upon completion of their sophomore year. Students seeking a master's degree are expected to meet with their graduate adviser and file an official degree plan during their first semester of enrollment.

**Students who change their major, area of concentration or teacher certification status must have a new official degree plan reflecting their current status on file with the appropriate departments.**

Upon request, the Department Chairs will aid students in preparing Degree Plans that may be required by institutions or agencies other than The University of Texas-Pan American. As an illustration, some public school systems require prospective teachers who have not completed their degrees to file an approved plan in the superintendent's office.

## Elective Hours

Required semester hours for which specific courses are not prescribed are listed as elective hours.

## Graduation Under a Specific Bulletin (Catalog)

The student may meet the requirements for graduation that are listed in the bulletin of the year in which he or she enters college or some later bulletin. However, the student must graduate within seven years from the academic year of entrance or be placed under the provisions of a later bulletin. Any changes in the degree plan to comply with a later bulletin must be approved by the Department Chair and the Dean of the school. For purposes of graduation requirements, this catalog expires August 2003.

## Honors

Upon graduation, a student receiving a baccalaureate degree is listed with "Honors" in accordance with the following standards based on his/her final over-all grade point average:

Cum Laude	A grade point average of 3.5 to 3.69
Magna Cum Laude	A grade point average of 3.7 to 3.89
Summa Cum Laude	A grade point average of 3.9 to 4.0

*Honors are listed in the graduation program based on the student's GPA prior to completion of their last semester of coursework, and does not guarantee graduation with honors upon calculation of the over-all GPA after the student's last semester has been completed.*

## Kinesiology (P.E.) Waiver

If a waiver of Kinesiology activity courses is obtained, then KIN 2301 or NURS 2301 is required. The waiver may be obtained under the following circumstances:

1. A student who has been honorably discharged from the military service, and who has served a minimum of one year therein, may obtain a waiver of the required Kinesiology activity hours on the basis of 1 semester hour for each six months of military service or major fraction thereof (DD214 required to be submitted).
2. A student unable to participate in physical education activity courses because of a health or physical condition may obtain a waiver based upon a physician's certificate to that effect.
3. A student with a child or children in his/her care may obtain a waiver of required Kinesiology activity hours.
4. A student who is at least 25 year of age at the time of initial admission, or at time of readmission after an absence from college of at least two years, may obtain a waiver of required Kinesiology activity hours.

## **Residence**

Coursework in residence refers to coursework actually completed on The University of Texas-Pan American campus. Extension, credit by exam, correspondence and transfer credit may not be used to complete the residency requirement for graduation.

## **Undergraduate Students**

### **Degrees Awarded**

The University of Texas-Pan American offers the following types of undergraduate curricula:

1. Those leading to one of the following Bachelor's Degrees (BA, BAAS, BBA, BFA, BGS, BIS, BS, BSCJ, BSE, BSN, or BSW) conferred by UT Pan American,
2. Those leading to the Associate of Applied Science (AAS) in Nursing degree,
3. Those satisfying the requirements leading toward degrees offered at other institutions, such as curricula leading to degrees in law, pharmacy, medicine and other specialized fields,
4. Courses satisfying requirements for a minor field, and
5. Courses meeting requirements for teachers in education.

**The College of Arts and Sciences awards the following degrees:**

The Bachelor of Arts (BA) degree with majors in:

Anthropology  
Art  
Communication  
English  
Government  
History  
Inter-American Studies  
Mexican-American Heritage  
Music  
Philosophy  
Psychology  
Sociology  
Spanish  
Speech and Hearing  
General Studies

The Bachelor of Science (BS) degree with majors in:

Biology  
Chemistry  
Computer Science  
Mathematics  
Physics  
Psychology

The Bachelor of Science in Criminal Justice (BSCJ) degree with majors in:

Corrections  
Police Administration

The Bachelor of Science in Engineering (BSE) degree with majors in:

Electrical Engineering  
Manufacturing Engineering  
Mechanical Engineering

The Bachelor of Social Work (BSW) degree with a major in:

Social Work

The College of Arts and Sciences also offers curricula meeting requirements for pre-dental (with a major in Biology or Chemistry), pre-pharmacy (two years), and pre-medical (with a major in Biology or Chemistry for pre-professional work).

**The School of Business Administration awards the following degrees:**

The Bachelor of Arts (BA) degree with a major in:

Economics

The Bachelor of Business Administration Degree (BBA) degree with majors in:

Accounting  
Computer Information Systems  
Economics  
Finance  
International Business  
Management  
Marketing

The School of Education awards the following degrees:

The Bachelor of Interdisciplinary Studies (BIS) with a major in:

Interdisciplinary Studies

The Bachelor of Science (BS) with majors in:

Health  
Kinesiology

*The Texas Legislature has mandated changes in Teacher Education Certification and Degrees. Students should consult with their advisers in the School of Education to ensure their degree plans conform to the most recent changes.*

The School of Health Sciences awards the following degrees:

The Associate of Applied Science (AAS) degree with major in:

Nursing

The Bachelor of Science (BS) degree with a majors in:

Dietetics  
Medical Technology  
Rehabilitative Services

The Bachelor of Science in Nursing (BSN) degree with a major in :

Nursing

Minors are offered in most of the fields that offer majors; however, these additional minors are also available:

Geology  
Bilingual/Bicultural Education  
Generic-Special Education  
French  
Statistics  
Military Science  
Mexican-American Studies

Supporting courses are available in a variety of fields to include:

Astronomy  
Bible  
Geography  
German  
Japanese  
Russian

## **Degree Requirement Policies**

### **Requirements for the Associate of Applied Science Degrees**

1. During the first semester of residence, students must consult the appropriate major department and develop a degree plan, which must receive all appropriate approvals and be placed on file.
2. Satisfactory completion of the prescribed curriculum as specified in the catalog.
3. A minimum grade of "C" in each required course in the appropriate curriculum with a minimum of one-third of the course work completed in residence.
4. Only courses completed in programs approved by the appropriate state or accrediting agency will be considered for transfer credit. See the appropriate department for information and procedures regarding the transfer of credit.
5. An acceptable "Application for Degree" must be filed by the student with the Office of Admissions and Records on or before the date specified in the University Calendar (approximately nine months prior to the intended date of graduation).

## Requirements for a Bachelor's Degree

*General Requirements:* The general requirements for graduation are the same for each baccalaureate degree and are listed below. Associate degrees are exempt from these provisions to the extent approved by the School in which the degree is conferred. Specific requirements for each major field are listed in the catalog sections dealing with majors. It is the responsibility of the student to be familiar with all the requirements for the degree sought.

1. *Minimum Hours & GPA:* A minimum of 124 semester hours of work is required with an overall minimum grade point average (GPA) of 2.0. Some majors require more hours.
2. *Major and Minor GPA:* A minimum GPA of 2.0 in the required hours for both the major and minor fields, or for the broad-field major, is required. Graduates who seek certification as elementary or secondary teachers must have a minimum GPA of 2.25 in each case. Accounting majors are required to have a 2.5 in their accounting courses.
3. *University College/General Education Hours & GPA:* 60 semester hours of UC/GE requirements must be satisfactorily completed with a minimum GPA of 2.0. (Refer to the following section for specific coursework.)
4. *Freshman English:* A minimum grade of "C" must be achieved in each of the two required freshman English courses (ENG 1301, 1302 or equivalent honors courses, or English for Foreign Students courses).
5. *College Algebra:* A minimum grade of "C" must be achieved in College Algebra or approved higher level Math course (see following section for specific course numbers).
6. *Advanced Hours Overall:* Must include a minimum of 36 semester hours of advanced level (3000/4000) work. Some degrees require additional advanced hours. Degrees within the College of Arts and Sciences require that 45 of the 124 semester hours be in upper level (3000/4000) courses.
7. *Major/Minor Requirements:* The coursework must include a minimum of the following: 30 semester hours of work in a major field of concentration (15 of which must be advanced); and 18 semester hours in a minor field (6 of which must be advanced). A minimum of 48 semester hours of work in a broadly integrated area (such as Business Administration, Corrections, Music) may be substituted for the major and minor requirement. In such cases, at least 21 advanced hours must be included, and a department may specify not more than 60 total hours in the area.
8. *Residency:* The student must complete 24 semester hours of work in residence during his/her senior year. If the student has not established credit in courses at UT Pan American prior to the senior year, he or she must complete 30 semester hours in residence. A minimum of 6 semester hours of advanced work in the major must be completed in residence.
9. *Medical Technology Majors:* The last 30 hours of college work must be completed at UT Pan American; they must include at least 8 semester hours of Biology or Chemistry, and a minimum of 6 advanced semester hours.
10. *"Re-Using" a Course:* A course may not be used to satisfy a requirement for both a major and minor, or for two majors or for two minors.
11. *Teacher Certification:* All applications for teacher certification are processed through the UT Pan American Certification Office (Education Building, Room 147). **NOTE:** Since degree plans for baccalaureate degrees with teacher certification may differ from plans without certification, students should ensure that a revised, official degree plan and degree worksheet are filed by their major department with the Office of Admissions and Records.
12. *Course Distribution:* The major-minor or broad-field major course distribution must follow the requirements set forth by the various departments, subject to any limitations and requirements noted in the catalog or in published form issued by the various departments or schools of the University.
13. *Degree Plan:* Approved by the student's Department Chair and Dean; must be on file in the Office of the Dean of the School. This requirement is normally to be accomplished as soon as possible after the close of the sophomore year. In any event, the Degree Plan must be on file before the deadline for submitting the "Application for Degree."
14. *Application for Degree:* Must be filed by the student with the Office of Admissions and Records on or before the date specified in the University Calendar.
15. *Catalog — 7 year limit:* Prospective graduates may elect to graduate under any catalog whose ending date does not exceed seven years by the date of graduation, and that it is not prior to their first official date of enrollment at any accredited institution of higher education.
16. *Substitutions/Waivers:* Substitutions for any courses from the degree plan once submitted to the Office of Admissions and Records must be cleared with a "Substitution Form" to the Office of Admissions and Records.
17. *Graduate Courses:* May not be used to satisfy any undergraduate graduation requirements for a baccalaureate degree.
18. *Non-Traditional Credit:* A maximum of 45 semester hours of college credit will be accepted toward a bachelor's degree by any combination of extension, examination or correspondence with an 18-hour limit on correspondence credit. No credit will be awarded for "life experience."

*Restrictions:* All course requirements for a bachelor's degree in any one of the several disciplines are formulated within the department in which the discipline falls, and are announced and listed elsewhere in the catalog by the respective departments of the university. Students should contact their major department and request a degree plan as soon as possible upon completion of their sophomore year.

### **Additional Baccalaureate Degrees**

Students who received their bachelor's degree from UT Pan American may receive an additional degree of a different type and major (*i.e.*, if first degree was a BS, may receive a second degree of BA, BSCJ, BSW, etc.). Students who received their bachelor's degree from an accredited institution other than UT Pan American may receive an additional degree in a different major from UT Pan American. Such students continue to be classified as an undergraduate and must:

1. Complete an additional minimum of 30 semester hours of credit in UT Pan American courses (of which at least 12 must be advanced and a minimum of six of these must be in the major field; in the case of a double major, a minimum of 6 advanced hours is required in each major field) for each baccalaureate degree sought beyond the first.
2. Complete all requirements for the additional major(s), as set forth in the catalog.
3. Complete all requirements for the additional degree(s), including grade point average requirements, university college/general education requirements, elective courses and advanced courses, as set forth in the catalog.
4. Must comply with all other regulations as stated under "General Requirements."

## **Graduate Students**

### **Degrees Awarded**

The University of Texas-Pan American is authorized to offer the following graduate degrees and certification programs:

**The College of Arts and Sciences** awards the following degrees:

The Master of Arts (MA) degree with majors in:

Communication Disorders  
English  
English as a Second Language  
History  
Psychology  
Sociology  
Speech Communication  
Theater

The Master of Arts in Interdisciplinary Studies (MAIS) degree with a major in:

Interdisciplinary Studies

The Master of Science (MS) degree with majors in:

Biology  
Mathematical Science  
Mathematical Teaching

The Master of Science in Interdisciplinary Studies (MSIS) degree with a major in:

Interdisciplinary Studies

**The School of Business Administration** awards the following degrees:

The Master of Business Administration (MBA) degree with a major in:

Business Administration

The Doctor of Philosophy (PhD) degree with a major in:

Business Administration, emphasis in International Business

**The School of Education** awards the following degrees:

The Master of Education (MEd) degree with majors in:

Bilingual/Bicultural Education  
Counseling and Guidance  
Early Childhood Education  
Gifted Education

Educational Diagnostician  
Elementary Education  
Educational Administration  
Kinesiology  
Reading  
Secondary Education  
School Psychology  
Supervision

School Administrator's Certificate Programs:  
Middle Management  
Superintendent

The Doctor of Education (EdD) degree with a major in:  
Educational Administration, *cooperatively with The University of Texas at Austin*

The School of Health Sciences awards the following degree:

The Master of Science in Nursing (MSN) degree with a major in:  
Adult Health Nursing

Minor work for the degree may be done in the following fields:

Biology  
Communication  
Education  
English  
Government  
Health and Kinesiology  
History  
Mathematics  
Spanish

*Supporting Areas:*

Art  
Business  
Chemistry  
Communication  
Music  
Physics  
Psychology  
Sociology

## Requirements for a Master's Degree

### General Requirements

1. 36 hours of coursework or with the thesis option 24 hours of coursework plus 6 hours for the thesis will be required. Once a student registers for the thesis, he or she must continue to register each succeeding semester or summer session until the thesis is completed. Credit is counted only once and then only upon successful completion of the master's program. Registration for thesis is not counted in determining load limit for a semester or summer session.
2. During or at the end of the student's final semester of work, the student will be given a comprehensive written examination.
3. All degree programs will allow a student the option to include a minimum of 6 semester hours of work that is not a part of the student's major field. It is the option of each graduate program to determine if graduate courses taken outside of the school are acceptable.
4. A maximum of 18 hours in 5000-level courses may be taken for graduate credit toward a master's degree and/or as required by program accreditation standards.
5. Seven-Year Time Limit on Coursework: All requirements must be completed within one seven-year period. Work



more than seven years old will not meet graduation requirements and can be reinstated only by special permission of the Council of Deans.

6. Catalog – Seven-Year Limit: General and specific requirements for degrees in the Graduate School may be altered in successive catalogs, but the student is bound only by the requirements of the catalog in force at the time of his or her admission, within a seven-year limit. The student may choose to fulfill the requirements of a subsequent catalog.

### **Thesis Requirements**

Each school and/or department has its own guidelines for the development and completion of the thesis. A student considering the thesis option should contact the department head or graduate studies director in his or her school for specific procedures. In addition, a manual that details the University requirements for the format and submission of a thesis is available at the University Bookstore.

The original thesis and three copies (signed by the student's committee) must be submitted to the Dean of the School 30 days prior to graduation. (See calendar in front of bulletin for exact date.) A department may require additional copies of the thesis (at additional binding expense to the student).

Individual department deadlines for submission of a thesis to the student's supervisory committee will be established to complement the thesis time schedule for the Dean of the School. Before qualifying for graduation, the student must pay a fee for microfilming and binding the thesis and the publication of the thesis abstract in *Masters Abstracts*. If a student wishes to copyright the thesis, a fee must be presented to the Dean of the School before the thesis will be processed. Two copies of a non-illustrated abstract that does not exceed 150 words in length must accompany the signed thesis. The abstract is to be printed in *Masters Abstracts*.

If a student wishes to have additional copies of the thesis bound for personal use, the student may do so at an additional cost.

### **Special Requirements for the MA/MS Interdisciplinary Studies Degree**

1. At least 12 hours but no more than 18 hours of graduate work must be taken in one of four areas of concentration: English, History, Mathematics or Spanish.
2. At least 6 hours of coursework in the area of concentration must be upper-level graduate work (6000 level).
3. At least 3 hours of coursework must be taken in research methods or statistics in the area of concentration.
4. At least 12 hours must be taken outside the field of concentration. These courses must be taken from at least two additional disciplines.
5. No more than 12 hours of coursework may be taken from the School of Education. A maximum of 6 semester hours may be taken in the School of Business Administration.
6. Students seeking the MA/MS degree in Interdisciplinary Studies must successfully complete 36 hours of graduate work (30 if they choose to conduct a thesis) and meet all other University and program requirements.
7. All requirements must be completed within one seven-year period. Work more than seven years old will not meet graduation requirements and can be reinstated only by special permission of the Council of Deans.
8. The student must graduate under the catalog under he or she was admitted, or a subsequent catalog, provided it is not older than seven years.

### **Additional Master's Degrees**

A student may receive additional master's degrees from UT Pan American if the degrees are of a different type and major (*i.e.*, if the first degree was an MS, may receive a second degree of MA). This student is classified as a Special Graduate and must:

1. Complete a minimum of 30 semester hours of additional graduate credit (or 24 hours thesis option) in UT Pan American courses for each additional master's degree sought.
2. Complete all requirements for the additional major, including admissions, as set forth in this catalog.
3. Complete all requirements for the additional degree, including grade-point average requirements, elective courses, etc. as set forth in the catalog.
4. A maximum of 6 hours of credit for courses from one master's degree may count toward the credit requirements for other master's degrees. See the appropriate graduate adviser for details.

### **Requirements for a Doctoral Degree**

For specific requirements, see the section titled "Business Administration, Doctor of Philosophy."

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# STUDENT SERVICES AND INFORMATION

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## **Absences on Religious Holy Days**

A student who is absent from classes for the observance of a religious holy day shall be allowed to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence. A student who is excused for observance of a religious holy day may not be penalized for the absence if proper prior notice of the planned absence is given.

A student may be penalized by the instructor if he or she fails to satisfactorily complete the assignment or examination originally scheduled for the day(s) absent within a reasonable time after the absences. Additional information on procedures is found in the *Student Guide*, available in the Office of Student Affairs.

## **AIDS-Related Issues**

Institutional policy and educational procedures are detailed in Article VIII of the *Student Guide*, available through the Office of Student Affairs.

## **Clubs and Organizations**

A variety of clubs and organizations offer the UT Pan American student friendship, relationships with people of similar interests, avenues for organized and meaningful service and opportunities for self-development. Because new organizations are formed each year, a complete updated list is available in the Office of Student Development, University Center 205.

### *Miscellaneous*

Animal Behavior Club  
Euclidean Society of Engineering  
The Forum — A Coalition of Students/Faculty for Peace & Social Justice  
Forum on International Relations and Business Affairs  
International Student Association  
Residence Hall Association

### *Honor Societies*

Beta Gamma Sigma (Business)  
Honors Society  
Lambda Alpha (Anthropology)  
Psi Chi (Psychology)

### *Professional Societies*

Alpha Kappa Psi  
American Marketing Association  
American Society of Mechanical Engineering  
Association for Computing Machinery  
Data Processing Management Association  
Financial Management Association  
Japanese Animation Club  
Music Educators National Conference  
National Student Speech, Language and Hearing Association  
Society for Human Resource Management  
Sociology Club  
Student Association of Future Engineers  
Student Council for Exceptional Children  
Students in Free Enterprise

### *Department and Special Interest Clubs*

Accounting Society

American Humanics  
Anthropology Club  
Association of Contemporary Artists  
Bilingual Education Student Organization  
Bronc Cadet Corps  
Clinical Laboratory Sciences (Medical Technology)  
El Sol  
Elliott Chemistry Society  
English Graduate Student Forum  
Euclidian Society of Engineering  
Gay and Lesbian Student Association  
Health and Kinesiology Club  
International Student Association  
Juventud Hispana  
Master's Business Administration Association  
Organization for Discussion of English Subjects  
Pan American Press Club  
Philosophy Club  
Political Science Association  
Pre-Law Society  
Pre-Med/Bio-Med Club  
R.E.H.A.B. (Reach, Educate, Help, Advocate, Broadening Minds)  
Residence Hall Association  
School Psychology Association  
Social Work Club  
Solidarity  
Student Dietetics Association  
Student Nursing Association  
Young Democrats  
Young Republicans

*Service Organizations*

Council of Student Organizations  
Golden Z Club  
UT Pan American Student Government Association  
University Program Board

*Religious Organizations*

Apostolic Christian Truth Society  
Baha'i Association  
Baptist Student Union  
Campus Crusade for Christ International  
Catholic Campus Ministry  
Intervarsity Christian Fellowship  
Latter Day Saints Students Association  
United Methodist Campus Ministry

*Fraternities*

Phi Sigma Kappa  
Tau Kappa Epsilon

*Sororities*

Delta Zeta

## Hazing

Hazing is both a violation of University policy and a criminal offense (Sections 4.51 through 4.58, *Texas Education Code*) and may result in arrest and prosecution by civil authorities as well as disciplinary action pursuant to the *Regents' Rules and Regulations*. See Part One, Chapter VI, Sections 3.28 and 3.6.

Hazing with or without the consent of a student is prohibited by the University and by The UT System. Both the hazer and victim are subject to discipline.

According to state law, a person can commit a hazing offense not only by engaging in a hazing activity, but also by soliciting, directing, encouraging, aiding or attempting to aid another in hazing; by intentionally, knowingly or recklessly allowing hazing to occur; or by failing to report in writing to the Vice President for Student Affairs first-hand knowledge that a hazing incident is planned or has occurred. The fact that a person consented to or acquiesced in a hazing activity is not a defense to prosecution for hazing under the law.

In an effort to encourage reporting of hazing incidents, the law grants immunity from civil or criminal liability to any person who reports a specific hazing event to the Vice President for Student Affairs and immunizes that person from participation in any judicial proceeding resulting from that report. The penalty for failure to report is a fine of up to \$1,000, up to 180 days in jail or both. Penalties for other hazing offenses vary according to the severity of the injury which results and include fines from \$500 to \$10,000 and/or confinement for up to two years.

The law does not affect or in any way restrict the right of the University to enforce its own rules against hazing.

The law defines hazing as any intentional, knowing, or reckless act, occurring on or off the campus of an educational institution, by one person alone or acting with others, directed against a student, that endangers the mental or physical health or safety of a student for the purpose of pledging, being initiated into, affiliating with, holding office in, or maintaining membership in any organization whose members are or include students at an educational institution. Hazing includes but is not limited to:

- Any type of physical brutality, such as whipping, beating, striking, branding, electric shocking, placing of a harmful substance on the body, or similar activity;
- Any type of physical activity, such as sleep deprivation, exposure to the elements, confinement in a small space, calisthenics, or other activity that subjects the student to an unreasonable risk of harm or that adversely affects the mental or physical health or safety of the student;
- Any activity involving consumption of food, liquid, alcoholic beverage, liquor, drug, or other substance which subjects the students to an unreasonable risk or harm or which adversely affects the mental or physical health of the student;
- Any activity that intimidates or threatens the student with ostracism, that subjects the student to extreme mental stress, shame, or humiliation, or that adversely affects the mental health or dignity of the student or discourages the student from entering or remaining registered in an educational institution, or that may reasonably be expected to cause a student to leave the organization or the institution rather than submit to acts described in this subsection;
- Any activity that induces, causes, or requires the student to perform a duty or task which involves a violation of the Penal Code.

## The Learning Assistance Center

The Learning Assistance Center (LAC) recognizes that students must be led toward independence and self-reliance, and that they must assume ultimate responsibility for successful progression toward their academic and career goals.

Its purpose, therefore, is to provide all students an equal opportunity to succeed in college by maintaining a program of support services to address their unique educational, career and personal needs. The major goal is to increase UT Pan American retention and graduation rates while providing quality academic programs.

The LAC is made up of various units as noted below. The tutorial unit and some activities of the Counseling/Advisement Center are coordinated with a U.S. Department of Education Title IV federal project — Special Student Support Program. Call 381-2585 or 381-2529 for connections to any of the services listed below; all LAC services are located in the Student Services Building.

**Orientation Program:** Designed to facilitate students' adjustment to the university environment; to develop an understanding of academic expectations; to become familiar with campus services and activities; and to provide academic advisement for their first term at UT Pan American. Attendance at orientation is mandatory for all new students entering UT Pan American, including transfers and transients at the undergraduate level.

**Services to Persons with Disabilities:** Designed to promote awareness and utilization of existing UT Pan American, local, state and federal resources to better meet the educational, career and personal needs of persons with disabilities who attend or plan to attend UT Pan American.

**Academic Advisement:** Designed to assist students with educational planning with regard to general education course requirements and to inform them about course placement as it relates to legislation governing the Texas Academic Skills Program (TASP) and institutional policy. Advisement is provided for UT Pan American beginning freshmen during

their first year, students on scholastic probation or returning from academic suspension, and students recently transferred from other colleges and universities, or who are planning to transfer from UT Pan American. Also, this service unit advises students who have not successfully completed their TASP requirements; *i.e.*, those who have not met passing standards.

**Tutoring:** Assists students to improve their comprehension of coursework material and to develop the academic skills required for achievement at the university by providing professional staff and peer tutors to work with them on an individual or small group basis. These services assist those who are having difficulty comprehending course content, who have low grades or who wish to improve their grade-point average. Tutoring is limited to certain freshman/sophomore level courses in English, Math, Biology, Chemistry, Physics and the Social Sciences.

**Reading Program:** Designed to assist students who wish to improve their reading skills. Students may work selectively in improving vocabulary, reading comprehension or other areas of need specific to reading skills development.

**Study Skills:** Provided for students who have inadequate study skills. This service is offered through seminars scheduled throughout a term and conducted by the counseling staff.

**Developmental/Remedial Program:** The LAC tutorial laboratories provide academic support to students who must enroll in remedial courses and/or who are in the process of fulfilling legislative requirements of the Texas Academic Skills Program (TASP) tests.

**TASP Workshops:** Provided on various topics in basic skills development and designed to prepare individuals for the TASP tests.

**Computer Assisted Instruction:** Provides assistance by use of commercial software program tutorials in certain college level courses, basic skills development and TASP preparation.

**Counseling and Guidance:** Assists students who are having problems with personal, social, emotional and/or interpersonal relationships which may be affecting their adjustment to the university environment or which interfere with academic achievement. Counseling activities assist students to clarify their goals and encourages them to assume responsibility for their actions. Some activities are conducted in group counseling sessions, topical seminars or workshops. Students with serious mental health problems are referred for psychiatric evaluation when appropriate.

**Career Counseling:** Provided to students through individual counseling, the career library and career seminars. To facilitate the process, testing or standardized evaluation is used to help students gain a better understanding of their academic abilities, interests, aptitudes and personality. Test instruments used are of special interest to those who are unsure of a choice of major or career, or students who want to verify a tentative choice.

**Recruitment:** Designed to assist in UT Pan American's efforts to establish, meet and maintain desired enrollment levels of students for the institution. The program acts in support of these efforts by developing and coordinating various strategies to approach potential freshmen, mostly in the Valley area.

**Veterans Affairs:** The LAC maintains the Office of Veteran's Affairs to assist veterans in completing paperwork necessary to receive educational benefits for attendance at UT Pan American. It is supported in part by the Veterans Educational Opportunity Program; personnel coordinate activities with the Veterans Certification Officer in the Office of Admissions and Records and with the LAC tutorial and counseling units.

**Educational Talent Search:** A non-profit program contracted to UT Pan American by the U.S. Department of Education, designed to encourage and assist students in their pursuit of a post-secondary education after completion of their high school studies. Targeted middle school, junior high and senior high school students throughout the Rio Grande Valley are given extensive support and assistance in the form of individual and group counseling, academic skill building, life management skills, career exploration and assessment. The program provides specific information on educational and career opportunities, enrichment programs, visits to local post-secondary institutions and campus visitations to several universities in Texas. ETS staff members assist graduating participants with completion of admissions requirements and financial aid applications for entrance into the post-secondary institution of their choice. Educational Talent Search has an extensive library of information on post-secondary programs, career opportunities, scholarships and financial aid opportunities. Call 381-3651 for additional information.

## **Military Science**

The Army maintains a senior division of the Reserve Officers' Training Corps (ROTC) at The University of Texas-Pan American. Both the four-year program and the two-year program are available to interested students, both male and female.

The four-year program consists of the basic course (freshman and sophomore) and the advanced course (junior and senior). Advanced instruction is oriented toward general military science and includes a six-week summer camp, usually at the end of the junior year. Students who have successfully completed three or four years of Junior (high school) ROTC may be given placement credit for one year of the basic course regardless of academic classification at the discretion of the professor of Military Science.

Veterans also may be given advanced placement for the basic course at the discretion of the professor.

Successful students, when graduates, are commissioned as Second Lieutenants in the U.S. Army Reserve or U.S. Army National Guard. Students may elect to serve as reserve officers on active duty for an initial commitment period of

three years or they may elect to serve for as little as three months of branch schooling followed by an extended tour with a Reserve or National Guard Unit. Qualified cadets may apply for commission in the Regular Army.

During the course of instruction, the Army furnishes all required uniforms and military textbooks. Advanced course students receive a tax-free monetary allowance of \$100 per month.

A special two-year program is available for full-time students who have a minimum of two years remaining on a degree plan and who have not had prior military training or ROTC. This program consists of an intensified course of instruction in military subjects that will qualify the student for the advanced course. The course of instruction is normally taken in the summer between the sophomore and junior years. Students attend a six-week Basic Camp at Fort Knox, Kentucky. Students receive transportation allowance to and from the camp, uniforms, room and board and are paid approximately \$700 for the period. No military obligation is incurred by attendance at this camp.

Application for the two-year program must be completed during the Spring semester so that attendance at Basic Camp may be arranged. Further details are available at the Military Science Department, Southwick Hall, Room 207, 210/381-3600.

## **The Office of Placement, Testing and Cooperative Education**

In a time when heavy academic emphasis is being placed on career-oriented programs, The University of Texas-Pan American's Office of Placement, Testing and Cooperative Education is an important component of any student's preparation.

Through this office, students gain a new insight into their future career plans, the different job opportunities, average pay scales and other useful information. A career information center is located in the office and is available to any interested student.

In addition, the office sponsors a Testing Service, whereby students may take state, national and special examinations.

The UT Pan American Office of Placement, Testing and Cooperative Education puts students in jobs in two ways. During a student's college years, the office will assist them in locating part-time employment. As graduation draws closer, a large number of top employers visit the campus to recruit new employees. Major employers such as Mobil Oil, J.C. Penney's, Exxon, AT&T, Wal-Mart, Kraft General Foods USA and Southwestern Bell Telephone, as well as many others, recruit at UT Pan American.

**Placement:** A placement credential service and on-campus employment interviews are available for seniors. Special activities are also held for all UT Pan American students and alumni in preparation for the career search. These include Career Day, Teacher's Job Fair, Health Professions Career Day and Job Interview Skills Seminars, as well as other activities.

**Career Information Center:** The Career Information Center houses sources of occupational information, registers and directories, and information on hundreds of different companies, school districts, government agencies, fellowship/scholarship information and graduate/professional school catalogs.

**Student Employment Services:** A number of local businesses and agencies contact the office seeking students for part/full-time employment. The Student Employment Service operates a referral system to match these employers with UT Pan American students. International students are required to apply through the International Students' Adviser.

**Institutional Testing Service:** The University of Texas-Pan American is a test center for numerous national and specialized examinations such as the American College Test (ACT), Graduate Record Examination (GRE), National Teachers Examination (NTE), Graduate Management Admissions Test (GMAT), Test of English as a Foreign Language (TOEFL), Credit by Examination Testing Program (CLEP), Law School Admissions Test (LSAT), Miller Analogies Test (MAT), General Educational Development Test (GED), the Local Advanced Placement (LAP), Texas Academic Skills Program (TASP), Medical College Admission Test (MCAT) tests and a number of others.

**Cooperative Education Program:** The Cooperative Education (Co-Op) Program at The University of Texas-Pan American offers students an opportunity to gain work experience in an employment situation directly related to their major course of study.

The Co-op Program has three options:

1. *Alternating/Full-time* — Students alternate semesters or six-month terms of full-time work with full-time study.
2. *Parallel/Part-time* — Students work part-time, usually 25 hours or less, while continuing to take classes.
3. *Summer Internship* — Students work during the summer months on a full-time basis.

To be eligible to participate in the Co-op Program students must:

1. Have completed a minimum of 30 semester credit hours.
2. Maintain at least a 2.0 grade-point average.
3. Be enrolled at least half-time (6 hours).
4. Either be currently enrolled, or have been enrolled the previous semester and be registered for the upcoming semester.

The Co-op student may be eligible to receive academic credit for his-her Co-op work assignment. Refer to catalog for course descriptions.

More information may be obtained by contacting the Co-op Office, Student Services Building, Room 125, or calling 210/381-2781.

## Student Conduct and Disciplinary Code

All students at The University of Texas-Pan American are subject to the rules and regulations governing student conduct and discipline as described in the *Student Guide* and in Part One, Chapter VI, Section 3 of the *Rules and Regulations of the Board of Regents of The University of Texas System*. These documents are available for review in the Office of Student Affairs.

## Student Guide

The University of Texas-Pan American *Student Guide* provides detailed information on numerous aspects of campus life and university policies governing students. Copies of the *Student Guide* are available through the Office of Student Affairs.

## Student Health Services

Student Health Services is a student-funded, ambulatory care facility staffed with physicians and registered nurses providing primary medical care and health education services to students registered at The University of Texas-Pan American.

Confidential, unlimited, free medical consultations are available by appointment or on a walk-in basis. Minimal service charges are assessed for accident/injury care, laboratory tests, medications, women's health care and certain special procedures. Students are encouraged to pay for services on the day they are rendered, but if not paid that day, charges will be transferred to Payments and Collections. Referrals and appointments to outside providers are routinely made when necessary.

Convenient pharmacy services include prescriptions, over-the-counter medications, and patient counseling; a full-service laboratory offers next-day results. Immunizations, TV skin tests, allergy injections, and screening tests for anemia, diabetes, and hypertension are also available. Anonymous HIV antibody testing is free to students, faculty and staff.

Located on the first floor of Emilia Schunior Ramirez Hall, the recently renovated out-patient clinic is open from 8:30 a.m. to 4 p.m., Monday through Friday. Call 210/381-2511 for more information about Student Health Services.

**HIV/AIDS/HBV:** An HIV/AIDS education and awareness program for UT Pan American students, faculty and staff is fully operational. Information and programming is available on a one-to-one basis and to various campus groups. Anonymous HIV Antibody testing requires pre- and post-test counseling offered at Student Health Services. HBV vaccinations are available to all students. Clients may be referred to appropriate off-campus facilities for additional counseling and treatment as warranted.

**Student Insurance:** Students are encouraged to purchase an optional, low-cost health insurance plan that provides health and accident coverage. Information regarding policy coverage and claim procedures can be obtained by inquiring at the Student Health Services located on the first floor of Emilia Schunior Hall or by calling 210/381-2511.

**NOTE:** Health insurance is required for all international students (F-1 and J-1 visa holders) and may be required for dependents; therefore, purchase of this health insurance will be mandatory for such students unless a waiver has been obtained from the Student Health Services. The issuance of a waiver requires proof that the student has insurance coverage comparable to the minimum required. Contact the Student Health Services or International Student Services for further information.

**Student Immunizations:** In accordance with State law, the following immunizations are required for all students enrolled in health-related courses which will involve direct patient contact in medical or dental care facilities or who come in contact with human biological fluids or tissue.\* Students for whom these immunizations are not required are strongly urged to obtain these immunizations for their own protection.

- \* *Measles:* Proof of two doses of measles vaccine administered on or after the first birthday and at least 30 days apart or proof of immunity;
- \* *Mumps:* Proof of one dose of mumps vaccine administered on or after the first birthday or proof of immunity;
- \* *Rubella:* Proof of one dose administered on or after the first birthday or proof of immunity;
- \* *Tetanus/diphtheria:* Proof of one "boostger" dose of tetanus/diphtheria (within 10 years);
- \* *Hepatitis B virus (HBV):* Proof of serologic immunity to HBV or certification of immunization with a complete series of Hepatitis B vaccine. Students will be required to present a letter or other suitable written certification.

**NOTE:** Certain exemptions are allowed from the immunization requirement; students should contact the Student Health Services for information.

Students enrolled at UT institutions will assume the full cost of the immunizations.

Students may obtain information regarding the consequences of not being current on immunization for certain diseases; the age groups most vulnerable to these vaccine-preventable diseases; and local providers of immunization services from the Student Health Services.

### **Student Housing (On-Campus)**

Two Residence Halls are provided on UT Pan American campus for housing:

Residence Hall for Women	192 students
Troxell Residence Hall for Men	192 students

The Residence Halls are air-conditioned and centrally heated for year-around comfort. For reservations and information contact the Housing Office, University Center, Room 320.

**Rules and Regulations:** Residence hall students must comply with University regulations as stated above and, in addition, are subject to specific regulations governing each hall. Directions for making room reservations, the schedule of fees, deposits and other details concerning residence halls are found under the section of the catalog, *Student Expenses*.

### **Student Non-Academic Grievance Procedure**

In an effort to resolve misunderstandings or grievances, students must first make every effort to solve the problem with the individual against whom the complaint is lodged. If the grievance is not settled, it must then be discussed with the appropriate chair or head of the department in which the complaint originated. Grievances may then be appealed to the Academic Dean. Subsequent appeals are presented to the appropriate Vice President. Finally, unresolved complaints may be presented to the President for a final decision. Appeals beyond the department chair/head level must be in writing.

### **Student Publications**

Students at The University of Texas-Pan American students are invited to contribute and work on the staff of the student publications. Writing, editing and photography usually start prior to the opening of classes in the fall semester. Some positions are paid and volunteer workers are sought as reporters, copyreaders and headline writers. The office is in Room 322 of the University Center. Transfer students and beginning freshmen should contact the Student Publications Office before registering. Call (210) 381-2541 for information.

### **Texas Rehabilitation Commission**

The Texas Rehabilitation Commission is a state agency that provides disabled individuals a variety of services. Eligibility depends on the following criteria:

1. The presence of a disability that results in a substantial impediment to employment.
2. The applicant is presumed to be capable of engaging in gainful employment with a provision of vocational rehabilitation services.
3. The applicant requires vocational rehabilitation services in order to obtain, retain or regain employment.

Available services include evaluation, counseling and guidance, interpreter services for the deaf, medical treatment, assistive devices, tuition costs, room and board, transportation, tools, supplies and licenses, placement and follow-up. For further information contact the Texas Rehabilitation Commission offices at 383-0795.

### **Veterans' Program**

#### ***Veterans Educational Outreach Program***

The Veterans Educational Opportunity Program (VEOP) provides the following services:

- A. Information and referrals
- B. Individualized V.A. tutoring
- C. Income verification
- D. Explanation of educational benefits
- E. Assistance with V.A. educational benefit applications.

**NOTE:** Students receiving V.A. Educational Benefits must make progress toward a degree as specified in this bulletin under Satisfactory Progress and Scholastic Probation and Suspension — Undergraduate.



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# OTHER UNIVERSITY SERVICES

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## The University Library

The University Library is the campus center for resources which support the curricular offerings of The University of Texas-Pan American. The handsome four-story brick structure embellished by large glass panels contains 132,502 square feet. The cornerstone of the building was dedicated April 10, 1978. The Library houses a collection of approximately 350,000 cataloged volumes, more than 300,000 government documents, in excess of 2,500 periodical subscriptions, about one million units of microform and nearly 3,000 audiovisual items. Library collections are cataloged via OCLC and made available to patrons by the DRA circulation and public access automated systems.

Of interest to the region and beyond are the special collection materials contained in the Lower Rio Grande Valley Historical Collection. Materials available pertain to the Texas counties of the Valley and to northeastern Mexico.

Reference rooms resources include connectivity by online terminals with indexes to periodicals materials available at UT Austin. Connectivity with the Internet and therefore the catalogs of other library collections is also available. Locally subscribed-to compact disk resources are in the process of being linked to the UT Pan American campus network. Library patrons are offered services which include reference and information consultation and assistance, computerized database searching, interlibrary loan and library use instruction.

Resources of the University Library are available seven days a week during regular academic sessions. Detailed information about hours and services may be obtained at the circulation desk, which can be reached by telephone at 210/381-3306.

## Center for Entrepreneurship and Economic Development

The Center for Entrepreneurship and Economic Development (CEED) serves as a catalyst for business and economic development, job creation and income growth through the provision of a broad range of education and technical assistance activities targeted to businesses, public officials, economic development organizations and the community. CEED is organized around three program areas: business development, regional economic development and special projects.

## Center for International Studies

The Center for International Studies facilitates and encourages campus efforts to develop international programs. Among these are research, publications, continuing education, faculty development, community outreach and student experiences abroad. It supports international initiatives among student groups, faculty and among agencies in the fields of health, education, government and industry on both sides of the Texas-Mexico border. In addition, the Center also promotes studies of other regions of the world. It also provides assistance in writing proposals, establishing relations with universities in Mexico and abroad, sponsoring multi-cultural and cross-national research, forming liaisons with community groups and sponsoring presentations on Hispanic and international issues.

## Center for Local Government

The Center for Local Government (CLG) was established to increase the capacity of counties, cities, school districts and special districts to more efficiently manage scarce public resources and to meet present and future problems in a positive, creative and constructive manner. The Center provides education and information to elected and appointed officials and employees in the responsibilities and duties of their respective offices or positions and in the planning, management and evaluation of practices and procedures appropriate for their particular offices and responsibilities. CLG also conducts research and makes recommendations on issues related to the performances of local governments and special districts.

## **Coastal Studies Laboratory**

The Coastal Studies Laboratory was established as a marine biology laboratory in 1973. It was organized and expanded in 1985 as the Coastal Studies Laboratory (CSL), with concentration on university education, public education and coastal research. The CSL's public display contains representative species of fauna and flora of the local area. All species on display are from the immediate area of the Lower Laguna Madre and South Padre Island. The displays are open to the public and to organized groups by appointment. The CSL also supports classes and field trips from the University and other schools. A number of marine-oriented courses are offered at the CSL. Many universities in Texas and surrounding states use the CSL facilities for field trips each year.

## **Rio Grande Center for Manufacturing**

The Rio Grande Center for Manufacturing is a collaborative effort by the region's academic, industrial and economic development entities, designed to deliver services to the region's manufacturing industries by leveraging available resources. The Center's external mission is to aid regional manufacturers and potential manufacturers by providing problem solving, technical management services, engineering and testing services, and by carrying out important and relevant basic and applied research projects in the area of manufacturing sciences. The Center's internal mission is to strengthen and support its member academic institutions by facilitating faculty research; providing training, experience and employment for students; and by aiding continual curriculum refreshment and enhancement.

## **Speech and Hearing Center**

The Speech and Hearing Center conducts speech-language evaluations or hearing evaluations to determine whether communication disorders exist and whether intervention is needed. Some of the communication disorders that can be identified through an evaluation include hearing loss, delayed language development, delayed speech development, voice disorder, fluency disorder, aphasia, apraxia of speech and dysarthria. In addition to communication disorders, communication differences are also the concern of the Speech and Hearing Center faculty and students. If speech-language intervention or aural rehabilitation are needed, programs that address these communication concerns are available in either English or Spanish, depending on the individual's language preference.

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# TUITION, FEES & DEPOSITS

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## Student Expenses

The cost of attending The University of Texas-Pan American is relatively low — approximately \$614.76 per semester for 12 hours of required tuition and fees for a resident of Texas. A large student financial aid program offering part-time employment, scholarships and loans helps most students at UT Pan American meet the costs of attending college and living expenses.

## Financial Responsibility

State universities cannot extend credit; therefore students are expected to meet financial obligations to the University within the designated time allowed. Registration fees are payable at the time of registration, and students are not entitled to enter class or laboratory until all their fees have been paid. (Exception: See "Payment by Installment.") Other charges are due within 10 days after a bill is rendered by the University, or according to the special payment instructions that may be printed on the bill. Failure to pay the amount owed in the allotted time can result in the withholding of registration privileges, official transcripts, grades and degrees and other penalties and actions authorized by law.

Initial payment of registration fees may be made by personal check, money order payable to The University of Texas-Pan American or cash. Students are advised to exercise care in paying fees by check. (See "Returned Checks.") When a bad check for registration fees is returned to the University, a \$15 return check service charge is assessed, and the student is given two days from date of notice to make full payment by cash, cashier's check or money order. Failure to comply will result in the penalties described above.

**Payment of fees as a part of registration:** A student is not registered in the University and is not entitled to University privileges until he or she has paid all required fees. A hold against re-entry is imposed on a student who fails to pay a debt owed to the University.

## Residency Classifications and Tuition Rates

Shown in the Fee Table are required registration fees each semester including:

- **Tuition**
- **Student Service Fees** (computed at \$9.98 per semester credit hour up to a maximum of \$119.76 regular semester or \$59.88 per summer session. A 10 percent increase is probable for 1995-96.)
- **Building Use Fees** (computed at \$12 per semester credit hour for 1994-95 and 1995-96)
- **Computer Access Fee** of \$9 per regular semester or \$4.50 per summer session.
- **International Education Fee** of \$1 per semester.
- **Registration Fee** of \$5 per semester.

For example, by reading from the Fee Table, a student who is a resident of Texas and who enrolls for 12 semester credit hours in a fall or spring semester would pay \$614.76 of required registration fees.

The Fee Table does not include required laboratory fees or individual instruction fees, which are listed with the individual course descriptions.

Student Service Fees support student activities such as intramural and intercollegiate athletics, the campus newspaper, Student Health Services, student accident insurance, University Program Board, drama, dance group, Student Government Association, University Center, Orientation and other student services as determined by the Board of Regents.

## Classification as a Non-Resident

Residency status is governed by state law, and by the "Rules and Regulations for Determining Residence Status" published by the Texas Higher Education Coordinating Board. Students who are residents of a state other than Texas or are citizens of a foreign country are classified as "Non-resident Students" for tuition purposes.

Documents supporting the fact that the prospective student or parent (if the student is a dependent) has lived and has been gainfully employed for at least 12 months in the State of Texas prior to enrollment are required to establish residency for tuition purposes. (*NOTE: Non-resident students seeking resident status may not be enrolled during the year of employment in which the student is seeking resident status.*)

Information regarding residency status and reclassification as a resident is available in the Office of Admissions and Records. The Office of Admissions and Records will make the final residency determination.

**NOTE: Non-resident students enrolled in graduate programs that are part of the Academic Common Market may be eligible to pay tuition at resident rates. Contact the Registrar's Office for eligible programs and non-resident status.**

# 1994-95 Fee Table\*

	<i>Semester Credit Hours Enrolled</i>	<i>Residents of Texas</i>	<i>Non- Resident Students (See Note)</i>
Each	1	156.98	198.98
Fall	2	178.96	382.96
or	3	200.94	566.94
Spring	4	222.92	750.92
Semester	5	244.90	934.90
	6	314.88	1,118.88
	7	364.86	1,302.86
	8	414.84	1,486.84
	9	464.82	1,670.82
	10	514.80	1,854.80
	11	564.78	2,038.78
	12	614.76	2,222.76
	13	654.76	2,396.76
	14	694.76	2,570.76
	15	734.76	2,744.76
	16	774.76	2,918.76
	17	814.76	3,092.76
	18	854.76	3,266.76
	19	894.76	3,440.76
	20	934.76	3,614.76
Each additional hour add		30.00	174.00
Each	1	92.48	194.48
Six-	2	114.46	378.46
Weeks	3	160.44	562.44
Summer	4	210.42	746.42
Session	5	260.40	930.40
	6	310.38	1,114.38
	7	350.38	1,288.38
	8	390.38	1,462.38
	9	430.38	1,636.38
Each additional hour add		30.00	174.00

\*Tuition and fees are subject to change without notice or obligation, in keeping with the policies and actions of the Board of Regents and in conformance with the laws of the State of Texas and become effective when enacted.

NOTE: Students who are residents of a state other than Texas or are citizens of another country are classified as "Non-resident Students."

# 1995-96 Fee Table\*

	<i>Semester Credit Hours Enrolled</i>	<i>Residents of Texas</i>	<i>Non- Resident Students (See Note)</i>
Each	1	156.98	198.98
Fall	2	178.96	382.96
or	3	200.94	566.94
Spring	4	222.92	750.92
Semester	5	244.90	934.90
	6	326.88	1,118.88
	7	378.86	1,302.86
	8	430.84	1,486.84
	9	482.82	1,670.82
	10	534.80	1,854.80
	11	586.78	2,038.78
	12	638.76	2,222.76
	13	680.76	2,396.76
	14	722.76	2,570.76
	15	764.76	2,744.76
	16	806.76	2,918.76
	17	848.76	3,092.76
	18	890.76	3,266.76
	19	932.76	3,440.76
	20	974.76	3,614.76
Each additional hour add		32.00	174.00
Each	1	92.48	194.48
Six-	2	114.46	378.46
Weeks	3	166.44	562.44
Summer	4	218.42	746.42
Session	5	270.40	930.40
	6	322.38	1,114.38
	7	364.38	1,288.38
	8	406.38	1,462.38
	9	448.38	1,636.38
Each additional hour add		32.00	174.00

\*Tuition and fees are subject to change without notice or obligation, in keeping with the policies and actions of the Board of Regents and in conformance with the laws of the State of Texas.

Note: Students who are residents of a state other than Texas or are citizens of another country are classified as "Non-resident Students."

## Payment by Installment

Section 54.007 of the Texas Education Code provides for payment by installment of tuition and mandatory fees in the fall and spring semesters. Students electing to use the installment plan must fill out a contract at the Payments and Collections Office, Student Services Building, Room 115. Students already receiving some form of financial aid, including scholarships, are not eligible.

**Options:** Eligible students may elect one of two options during fall and spring registration.

**Option A:** Full payment at Registration

**Option B:** Half payment at Registration

One-fourth before the 6th classweek

One-fourth before the 11th classweek

**Once an option has been selected, it may not be changed; however, advanced payments will be accepted.**

**Incidental Charge:** Students electing to pay in accordance with Option B must sign a promissory note and an incidental handling fee (non-refundable) of \$7.50 per scheduled payment will be collected to defray the cost to the University of providing this delayed-payment service.

**Collection After Registration:** The law requires collection of the second and any subsequent installment before the classweek indicated above.

**Late Payment:** Late installments will be accepted during the first three class days of the classweek indicated above, but a non-refundable late payment charge of \$5 will be assessed in addition to the installment amount.

**Reinstatement:** Late installments will be accepted after the first three class days of the classweek indicated above, but a non-refundable officially delinquent fee of \$25 will be assessed in addition to the installment amount.

## Failure to Pay by End of Semester

A student who fails to provide full payment of tuition and fees, including late fees assessed, to the University when the payments are due is subject to one or more of the following actions at the University's option:

- a. bar against readmission at the institution;
- b. withholding of grades, degree and official transcript;
- c. all penalties and actions authorized by law.

## Concurrent Enrollment Fees

Fees for students registering concurrently at two Texas public institutions of higher education.

1. A student shall pay the full tuition charge to the first institution at which he or she is registered.
2. Generally, only the hourly rate is paid at the second institution. However, if the minimum amount is less at the first institution, then the student must pay the difference in the two minimums to the second institution, but in no case shall the student pay to the institution less than the hourly rates. General fees, student service fees, building use fees, and optional fees are billed by each institution at its regularly authorized rates.

## Other Fees

**Catalog:** The first *University Catalog* is provided free to each undergraduate and graduate student; subsequent catalogs will cost \$2 each.

**Vehicle Registration and Operation Permit:** All students, whether full- or part-time, who will operate a motor vehicle in the campus area must register the vehicle with the University Police Dept. A sticker to be placed on the vehicle indicating the permit number and class "C" parking privileges will be provided. The charge for the academic year beginning September 1 and ending August 31 is \$12 if paid during the fall semester, \$8 if paid during the spring semester, and \$4 each summer session. Vehicle operation regulations are available at the Office of Student Affairs or the University Police Dept.

**General Property Deposit:** Students must pay a one-time general property deposit of \$10 to ensure against losses, damages or breakage in laboratories and libraries.

**Laboratory Fees:** For each laboratory course a fee of \$2 to \$30, depending upon cost of material used, is charged.

**Individual Instruction Fees:** For courses in art, communication or music, which provide individual coaching or instruction, a fee of \$20 for a 1- or 2-hour course or \$35 for a 4-hour course is charged. Class Piano and Class Voice courses each have a \$10 fee.

**Auditing Fees:** If auditing a course is permitted by the instructor, a non-refundable fee of \$20 will be charged.

**Bitnet/Internet Access Fee:** \$15 per semester or \$10 for one or both summer sessions.

**Computer Access/Use Fee:** \$9 per student per semester.

**Emergency Loan Processing Fee:** \$15 to defray administrative costs incurred in processing and collection of emergency loan payments.

**Library Fees:** Late book, 10 cents per workday per book; lost book, \$47 per book plus \$10 rendering charge and \$5 processing charge; late reserve material, 50 cents per hour; graduate carrel locker, \$5; public patron registration, \$25.

**Medical Insurance Fee:** Mandatory insurance for international students holding non-immigrant visas and living in the United States, variable to match premium for approved UT System student insurance plan.

**Registration Fee:** \$5 per semester to defray cost of providing touch-tone technology services for registration.

**Student Short-Term Loan Fees:** \$5 processing fee, \$5 late payment fee.

**Teacher Alternative Certification Program Application Fee:** \$50 for processing applications.

**Teacher Certification Deficiency Plan Preparation Fee:** \$25 for enrolled students, \$40 for non-enrolled students.

**Graduation Fee:** A non-refundable fee of \$15 is charged for undergraduate and graduate degrees. This fee is payable at the time the candidate presents the application for graduation to the Office of Admissions and Records. This fee is used to pay for: processing application for graduation, music, graduation speaker, postage, diplomas and other expenses associated with graduation. All students participating in the commencement ceremony are required to purchase the proper graduation regalia from the University Bookstore. (No students will be permitted to participate without the proper regalia.) Students wishing to transfer their application for graduation will be required to pay an additional \$5 fee for each time they transfer.

**Transcript Copy Charge:** The first official copy of a transcript of a student's grades is provided free; subsequent official copies are \$5 per copy. A student with overdue, unpaid obligations to the University will not be provided an official transcript copy unless satisfactory payment arrangements have been made.

**Kinesiology Activity Course Fees:** A \$6 fee is charged for all two-hour kinesiology activity courses. In the case of Bowling, Golf, and Scuba-diving, there is a required additional fee for the use of non-university facilities and equipment, which is paid directly to the provider of these facilities. Fees are subject to change.

**Thesis Binding Fee:** An original and two copies of a Master's Thesis must be bound and presented to the University. Although the cost will vary depending on the size of the thesis, it will be approximately \$15 per copy.

**Thesis Microfilming Fee:** Each Master's Thesis is microfilmed and placed in the University Library. The cost will be approximately \$20 depending on length of thesis.

**Advanced Standing Examination Fee:** A fee of \$20 is charged for each Advanced Standing Examination.

**ACT Residual Test Fee:** A fee is charged for ACT Tests administered at a time other than a regularly scheduled test date. The regular fee for nationally scheduled tests is \$20.

**Special Tests and Examinations:** Fees for tests such as entrance tests, credit by examination tests and other test services may be charged. Please inquire at the Office of Placement, Testing and Cooperative Education.

**Late Registration Charge:** Any student who, with proper permission, registers after the appointed days for regular registration (see calendar), will be required to pay a special non-refundable charge of \$25 to defray the costs of the extra services required to effect his or her late registration.

**Course Drop Fee:** Beginning with the first day of classes, students will be assessed a \$5 charge for each course drop processed. This fee is assessed to defray processing costs and is non-refundable.

**Returned Check Charge:** A non-refundable service charge of \$15 will be assessed to a student for each bad check. (See "Financial responsibility.") The University may refuse to accept a check from a student who has previously given a bad check (insufficient funds, account closed, signature irregular, payment stopped, etc.).

**ID Card Replacement Fee:** Entering students are provided a free University Photo Identification Card. A non-refundable fee of \$7 is charged for a replacement of this card. The fee is subject to change.

**International Fee:** A semester fee of \$1 will be charged to each enrolled student to assist students in study abroad programs.

**International Business Doctorate Application Fee:** \$35 to defray costs of processing applications for admission to the doctoral program in international business.

**Tuition Installment Incidental Charge:** Any eligible student who elects either the tuition installment option to pay fall or spring semester tuition and mandatory fees will be charged an additional \$7.50 with each payment to defray the cost to the University of providing this service. This fee is non-refundable.

**Residence Hall Installment Charge:** Students who elect to pay residence hall contract charges in monthly installments will be assessed an additional fee with each payment to defray the cost of this service. This fee is non-refundable.

**Late Payment Charges:** Payment of fall or spring tuition installments will be considered late if paid after the scheduled due date. Late payments plus an additional \$5 late charge fee are accepted if they are made within the three class days immediately following the scheduled due date. Payment of residence hall or meals only installment will be considered late after a three-day grace period and at that time a \$5 late payment charge will be added to the scheduled amount. Late fees are non-refundable.

**Officially Delinquent Charge:** Payment of fall or spring tuition installments after the third class day of the sixth or 11th classweek (as applicable) will require an additional \$25 reinstatement charge. This fee is non-refundable.

**Student Liability Insurance:** All students enrolled in programs in the School of Health Sciences, as well as Speech and Hearing (Department of Communication) must carry liability insurance. This is necessary in order for students to participate in clinical practicums associated with coursework. Approximate cost is \$15 per year.

### **Refund of Registration Fees**

To officially withdraw from the University or drop a course, a student must go to the Office of Admissions and Records. A student withdrawing officially and completely during a fall or spring semester will receive a refund of registration fees actually paid according to the following scale:

- 100 per cent before the first day of classes
- 80 per cent during the first five class days
- 70 per cent during the second five class days
- 50 per cent during the third five class days
- 25 per cent during the fourth five class days
- No refund during the fifth five class days or thereafter.

Refund of fees during a summer term to students withdrawing officially and completely will be made according to the following scale:

- 100 per cent before the first day of classes
- 80 per cent during the first three class days
- 50 per cent during the fourth, fifth and sixth class days
- No refund after the sixth class day

Students officially dropping courses but remaining enrolled at the University receive a full refund of registration fees actually paid for the dropped classes through the 12th class day during a fall or spring semester or the fourth class day during a summer term.

**Students who do not officially withdraw through the Office of Admissions and Records will be responsible for tuition, fees and any circumstances arising from failure to withdraw.**

Refund checks will be mailed within 45 days to the student's address on file at the Office of Admissions and Records (within 30 days if the student did not receive some form of financial assistance through the University). Refunds for a student under the installment plan will be first applied to the student's unpaid balance.

A student withdrawing from only a portion of his/her classes will receive a refund if the class(es) are dropped by the 12th class day during a fall or spring semester or by the fourth class day during a summer session. Classes dropped or withdrawn from after these dates are ineligible for any refund. All drops or withdrawals must be processed through the Office of Admissions and Records, Student Services Building, Room 108.

*NOTE: The term "class days" refers to days the University schedules classes, not the individual student's schedule.*

### **Refunding for Students in Title IV Programs**

As an institution participating in programs under Title IV of the *Higher Education Act of 1965* as amended ("Act"), UT Pan American is required to refund unearned tuition, fees, room and board, and other charges to certain students attending the institution for the first time who have received a grant, a loan, or work assistance under Title IV of the Act or whose parents have received a loan on their behalf under 20 U.S.C. Section 1087-2. The refund is required if the student does not register for, withdraws from, or otherwise fails to complete the period of enrollment for which the financial assistance was intended. No refund is required if the student withdraws after a point in time that is 60 percent of the period of enrollment for which the charges were assessed. A student who withdraws prior to that time is entitled to a refund of tuition, fees, room and board, and other charges that is the larger of the amount provided for in Section 54.006, *Texas Education Code*, or a pro rata refund calculated pursuant to Section 484B of the Act, reduced by the amount of any unpaid charges and a reasonable administrative fee not to exceed the lesser of five percent of the tuition, fees, room and board, and other charges that were addressed for the enrollment period, or \$100. If the student charges were paid by Title IV funds, a portion or all of the refund will be returned to these programs.

### **Residence Hall Fees**

*Fees and meal plans are subject to change. Contact the Housing Office or the Payments and Collections Office for current rates.*

Residence Hall room and board is available on campus for approximately 380 students in modern air-conditioned facilities.

Fall or Spring Semester	\$984.75
Summer Session	\$491.00

Residence Hall fees may be paid in monthly installments with an additional non-refundable installment charge of \$20 per



month except for summer sessions. Arrangements are made at the Payments and Collections Office, Student Services Building, Room 115. Installment payments will be considered late after the due date and a \$5 late payment charge will be added to the scheduled installment payment amount. Late fees are non-refundable. Residence hall fees for the summer terms are payable in full before the student moves in. Each semester the first installment payment is payable before the student moves in. The payment schedule is as follows:

**Fall Semester**

First Payment	(before moving in)	\$334.92
Second Payment	Sept. 24	\$334.92
Third Payment	Oct. 24	\$334.92

**Spring Semester**

First Payment	(before moving in)	\$334.92
Second Payment	Feb. 24	\$334.92
Third Payment	March 24	\$334.92

**First Summer Session**

One Payment		\$379.25
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**Second Summer Session**

One Payment		\$379.25
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**Cafeteria Meal Tickets:** Cafeteria meals for students residing on campus are included in the Residence Hall contract. Other students may purchase a semester or summer session meal ticket. Any student who withdraws officially from the University and has made full payment may receive a refund for the remaining portion of the room and board fee computed on a daily basis. A student who cancels the residence hall lease for any reason other than an official withdrawal will be charged for one-fourth of the remaining unexpired portion of the room and board fee as a penalty in addition to the pro-rated daily charges accumulated. The termination date of a lease will be the end of the boarding week in which the occupant officially notifies the Assistant Dean of Students of the termination.

**Telephone Payments:** All arrangements and payments for long distance telephone service in residence halls are made directly to the telephone company servicing the halls.

**Residence Hall Reservation and Room Deposits:** Applications for residence hall room reservations are made in the Housing Office. A check for \$50 must accompany the request. This will serve as a reservation fee and a damage deposit. This fee is retained on deposit throughout the period of residence of the student as a guarantee against damage and breakage. The deposit will be refunded, less any property or breakage charges, at the end of residence in the hall. Should a student decide not to reside in the residence hall the deposit will be refunded if a written application for refund is made by the following dates:

<i>Semester</i>	<i>Refund Request not later than:</i>
Fall Semester	August 1
Spring Semester	December 1
First Summer Session	May 1
Second Summer Session	June 15

Reservations are made on a first-come first-serve basis. Students may be placed on a waiting list until space is available through cancellations and no shows. *Holidays and breaks are not included as part of the room and board plan and have been deducted from the fees.*

**Summary of Estimated Student Expenses for Residence Halls**

A resident of Texas attending The University of Texas-Pan American and living in a University residence hall should expect the following approximate expenses. Please remember that these fees and estimates are subject to change and revision.

	Each Fall or Spring Semester	Each Summer Session
<i>Required Fees for Resident of Texas enrolled in 15 (6 in summer) hours</i>	\$734.76	\$310.38
Estimated Laboratory Fees	6.00	4.00
Books and Supplies	250.00	125.00
Residence Hall Room and Board	<u>934.75</u>	<u>379.25</u>
Total	\$1,975.51	\$818.63

*This summary does not include discretionary and personal expenditures such as for entertainment, transportation or clothing.*

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# THE UNIVERSITY COLLEGE/ GENERAL EDUCATION REQUIREMENTS

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## A Liberal Arts Education

Your education at The University of Texas-Pan American will be better measured by the skills you learn and the knowledge you gain than by the number of credit hours you take. We want you to improve your abilities to analyze, synthesize, determine values, use and understand mathematics, and communicate. No matter what subject you choose to major in, you will be required to complete courses in fields that reinforce those skills.

To understand the University College/General Education requirements, you should understand the established goals. These are the characteristics you will be given the opportunity to attain from your work and study here.

## The Goals of a Liberal Arts Education

1. An inquiring attitude which acknowledges the many-sided nature of most important questions, recognizes the need to examine inherited judgments, and reveals a desire for continued learning and creative expression.
2. Competence in the processes of learning, including the ability to read and listen, a knowledge of logic and scientific method, and the mental self-discipline needed for rigorous, critical analysis and synthesis of facts and ideas.
3. The ability to use words and numbers accurately and effectively, and communicate clearly through spoken and written word as well as through the symbols of mathematics.
4. A historical perspective provided by familiarity with the most significant events, people and achievements of the past; an understanding of the most enduring ideas and values in human history; and a knowledge of the many ways these are expressed in world cultures and in social, political and economic institutions.
5. A general knowledge and appreciation of nature, science and technology.
6. A general knowledge and appreciation of the fine and performing arts and of literature.
7. An understanding of self, along with the empathy for the strengths, weaknesses, rights and needs of others, as well as the ability to relate to others with human understanding.
8. An appreciation for the responsibilities of the individual to family and society; skill in serving as a constructive member in groups and organizations; sensitivity to the need for informed, independent moral and ethical decisions.
9. Knowledge of the economic and geographical inter-relationships of regions and nations and their resources.

These are the goals of a liberal arts education and the qualities that distinguish a liberally educated person. These are the skills and characteristics that we hope to nurture in our students through the University College and General Education Requirements.

## The University College and General Education Requirements

The University College and General Education Requirements apply to all students who enter The University of Texas-Pan American. Together, the requirements total 60 semester credit hours of work in the humanities, the social sciences, and the natural sciences. These 60 hours must be completed before graduation; however, the University College requirements, as described below, must be completed within the first 60 hours of college work.

## General Education Requirements

Students with ACT math sub-test scores of 19 or higher are not required to complete Math 1334.

### Humanities (24 hours)

- 6 semester hours of freshman English
- 6 semester hours of sophomore literature
- 6 semester hours of the same foreign language
- 6 semester hours from two of these areas: the arts, communication, philosophy and honors.

### Science (8 hours)

- 8 semester hours of a laboratory science

### Mathematics

- 3 semester hours of college algebra

### Computer Literacy

- 3 semester hours

### Kinesiology (Physical Education)

- 4 semester hours of kinesiology or ROTC 1200 through ROTC 2299

### Social Science (18 hours)

- 6 semester hours of American history

- 6 semester hours of American and Texas government
- 6 semester hours from any two of these areas: anthropology, economics, psychology and sociology

## University College Requirements

The University College requirements include 30 semester credit hours — 6 hours of freshman English, Mathematics 1340 (or a higher-level mathematics course) and 21 other hours from the General Education requirements.

The University College requirements must be completed within the first 60 hours of college work with at least a 2.0 grade point average. Students may not enroll in other courses until these requirements are met. Freshman English and MATH 1340 (or a higher-level mathematics course) must be taken every semester until successfully completed with a 2.0 GPA. Junior-level students may begin taking upper-division courses — those on the junior and senior levels — once they have completed their University College requirements.

## Transfer Students

Transfer students with 30 or more hours but without the University College-approved courses, or courses deemed comparable by The University of Texas-Pan American, may take upper-division courses if otherwise qualified, but they too must complete all University College and General Education requirements before graduation. Transfer students who lack six hours of freshman English or equivalent and 3 hours of mathematics with grades of at least C in each course must complete these requirements within their first two semesters at The University of Texas-Pan American.

## Specific Courses That Meet University College & General Education Requirements

### A. Humanities (24 hours)

1. English — 6 hours of freshman English  
ENG 1301 and 1302 (ENG 1387 and 1388 for the Honors Program)  
ENG 1406 for foreign students replaces ENG 1301.
2. English — 6 hours of literature  
ENG 2300, 2303, 2305, 2307, 2308, 231  
(ENG 2387, 2388 for the Honors Program)
3. Language Other Than English — 6 hours in the same language  
FR 1321, 1322 or higher level courses  
GERM 1331, 1332 or higher level courses  
SPAN 1301, 1302, 1303, 1304 or higher level courses  
JAPN 1351, 1352.
4. General Topics — 6 hours to be selected from two of the following four areas:
  - a. Area 1: The Arts  
ART 1301, 3381  
COMM (Theatre) 2312  
MUS 1301, 1302, 2307, 2308, 3311
  - b. Area 2: Communications  
COMM (Speech) 1303, 1313
  - c. Area 3: Philosophy  
PHIL 1310, 1320, 2330, 2340, 2350, 2370
  - d. Area 4: Honors Studies  
HONR 2387 or 2388

### B. Science and Mathematics (11 hours)

1. Natural Science (8 hours in same discipline)  
ASTR 1401 and 1402  
BIOL 1405 and 1406; 1401 and 1402; 2403, 2404 (1487, 1488 Honors Plan)  
CHEM 1401 and 1402  
GEOL 1401 and 1402  
PHYS 1401 and 1402, 1405 and 1406  
PSCI 1421 and 1422
2. MATH 1340 or higher level

### C. Computer Literacy (3 hours selected from:)

CS 1300, 1380, 2325, CIS 1301 or an appropriate computer course.

### D. Kinesiology (4 hours)

Any 2 Kinesiology activity courses or equivalent Military Science courses. Students excused from Kinesiology activity courses or equivalent Military Science courses must take KIN 2301 or NURS 2301.

If a waiver of Kinesiology activity courses is obtained, then KIN 2301 or NURS 2301 is required. The waiver may be obtained under the following circumstances:

1. A student who has been honorably discharged from the military service, and who has served a minimum of one year therein, may obtain a waiver of the required hours in physical education (kinesiology) on the basis of one semester hour for each six months of military service or major fraction thereof.
2. A student unable to participate in physical education activity courses because of a health or physical condition may obtain a waiver based upon a physician's certificate to that effect.
3. A student with a child or children in his/her care may obtain a waiver of required kinesiology hours.
4. A student who is at least 25 years of age at time of initial admission, or at time of readmission after an absence from college of at least two years, may obtain a waiver from kinesiology. Any other student is required to take kinesiology activity courses after reaching age 25 *only to the extent* that the student has failed to earn one kinesiology credit during each semester of the freshman and sophomore years completed prior to reaching age 25.

**E. Social Sciences (18 hours)**

1. State Requirements (12 hours)
  - a. History (6 hours)  
HIST 2313, 2314 (2387, 2388 Honors Plan)
  - b. Political Science (6 hours)  
POLS 2313, 2314 (POLS 2387, 2388 Honors Plan)
2. General Topics II — 6 hours to be selected from two of the following four areas:
  - a. Anthropology  
ANTH 1323, 1324, 2323, 2342, 2353
  - b. Economics  
ECO 1301, 2353
  - c. Psychology  
PSY 1313, 1323 (1387, 1388 Honors Plan)
  - d. Sociology  
SOC 1313, 1323, 2333 (1387 Honors Plan)

**Suggested Course Sequence for University College & General Education Requirements:**

**Freshman Year**

**First Semester:**

<i>Course:</i>	<i>Credits</i>
English 1301 (1)	3
Math 1340 (1)	3
Foreign Language	3
Humanities	3
History	3
Kinesiology (2)	2
<b>Total</b>	<b>17</b>

**Second Semester:**

<i>Course:</i>	<i>Credits</i>
English 1302 (1)	3
Computer Literacy	3
Foreign Language	3
Humanities	3
History	3
Kinesiology (2)	2
<b>Total</b>	<b>17</b>

Total credit hours for the University College and General Education requirements to be taken during the freshman year: 34

**Sophomore Year**

**First Semester:**

<i>Course:</i>	<i>Credits</i>
Science	4
Political Science	3
Social Sciences	3
Literature	3
<b>Total</b>	<b>13</b>
Other	3-6
<b>Total</b>	<b>16-19</b>

**Second Semester:**

<i>Course:</i>	<i>Credits</i>
Science	4
Political Science	3
Social Sciences	3
Literature	3
<b>Total</b>	<b>13</b>
Other	3-6
<b>Total</b>	<b>16-19</b>

Total number of credit hours to be taken for the University College and General Education requirements during the sophomore year: 26

Total for the University College and General Education requirements: 60

1. All students must pass English 1301 and 1302 and Math 1340 or their equivalents with a grade of "C" in the first 60 hours of work to proceed to upper level classes. Students should register in these classes every semester until they have met these requirements.
2. Kinesiology can be taken at a later time if the student must start a major during the freshman year.
3. Students seeking associate degrees may be exempt from these UC/GE requirements.

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# ACADEMIC PROGRAMS

*College, Schools, Departments and Courses of Study*

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## The College of Arts and Sciences

*Dr. Ernest Baca, Dean*

*Dr. Mark Glazer, Associate Dean for University College*

*Dr. Sylvia Lujan, Staff Associate Dean for the Learning Assistance Center*

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The College of Arts and Sciences includes disciplines traditionally considered to be the liberal arts in American higher education. It includes the Departments of Art, Biology, Chemistry, Communication, Criminal Justice, Engineering, English, History and Philosophy, Latin American Studies, Mathematics and Computer Science, Military Science, Modern Languages and Literatures, Music, Physics and Geology, Political Science, Psychology and Anthropology, Sociology, and Social Work. The College of Arts and Sciences requires 45 hours of upper level (3000/4000 level) courses for graduation. Degree options are explained in detail in the departmental descriptions that follow this section of the catalog.

All UT Pan American students, regardless of major, first study for a broad, or liberal, education. The term "liberal arts" comes from classical usage by the early Greeks and Romans, from a time when only free men were allowed to study such subjects. Hence, the word "liberal," relating to freedom or liberty. The classical liberal arts included seven subjects: grammar, logic, rhetoric, arithmetic, geometry, music and astronomy. The modern term encompasses much more. We encourage you to read and to think about the goals of a liberal arts education listed in the previous section. These are also the goals of the College of Arts and Sciences.

### Bachelor of Applied Arts and Sciences (BAAS)

#### Program Description

The Bachelor of Applied Arts and Sciences (BAAS) is an inverted degree program specifically designed to allow individuals who hold an Associate of Applied Arts and Sciences degree from an accredited institution to earn a degree with a major in a technical or an occupational area. The BAAS degree will be awarded to individuals who successfully complete (a) the liberal arts-based general education requirement (60 semester hours), (b) one of the professional development sequences (36 to 39 semester hours), and (c) the occupational or vocational emphasis (48 to 51 semester hours).

#### Curriculum

**1. The Bachelor of Applied Arts and Sciences consists of:**

- a. Academic Foundations (Core Requirements)**  
(60 semester hours)

*Humanities:*

English (Freshman)	6 sem. hrs.
English (Literature)	6 sem. hrs.
Foreign Language	6 sem. hrs.

*General Topics: 6 hours from two of four areas:*

- Area 1: The Arts
- Area 2: Communication
- Area 3: Philosophy
- Area 4: Honors Studies 2387 or 2388

**Mathematics and Science:**

Mathematics (College Algebra or Higher)

3 sem. hrs.

Natural Science (Laboratory Science)

8 sem. hrs.

from

Astronomy

Biology

Chemistry

Geology

Physics

Physical Science

**Computer Literacy:**

Computer Science, Computer Information Systems  
or appropriate computer course

3 sem. hrs.

**Kinesiology:**

Kinesiology Activity Courses or equivalent Military Science Courses

4 sem. hrs.

**State Requirements:**

History

6 sem. hrs.

Political Science (Government/ State/Federal)

6 sem. hrs.

**General Topics: (6 hours from two of four areas)**

- ANTH 1323, 1324, 2323, 2342, 2353
- ECO 1301, 2353
- PSY 1313, 1387, 1323 1388
- SOC 1313, 1323, (1387), 2333

**2. BAAS Professional Development Sequences**

Before entering the BAAS Program, the student is assigned a degree counselor. With the advice of the degree counselor, the student selects one of the Professional Development Sequences, and a degree plan is placed on record. (Students are reminded that the College of Arts and Sciences requires 45 advanced hours for graduation.) Sequences are as follows:

a. Applied Business Technologies (24 sem. hrs.)

*Students selecting this section will receive preparation in areas that can be applied to different occupations.*

GENB 3335 Organizational Communications

GENB 3356 Business Enterprise & Public Policy

POLS 3323 Introduction to Public Administration

POLS 3324 Government Organizations & Administrative Theory, or

POLS 3343 International Politics, or

POLS 3360 American Minority Politics

SOC 4352 Social Inequality, or

SOC 3324 Sociology of Health

Free Elec. (3 hrs.) Any Advanced Elective

plus

*Choose one of the following (6 hours each):*

Group A — MANA 3361 Principles of Management and Organizational Behavior and

MANA 3362 Personnel Management or

Group B — MARK 3371 Principles of Marketing and

MARK 3373 Industrial Marketing, or

Group C — FINA 3381 Money & Banking (prereq. 3 hrs. ECO 2354) and

FINA 3386 Financial Institutions and Markets

Electives — 12 advanced hours (non-business courses to be selected in conference with academic adviser).

TOTAL HOURS = 36

b. Liberal Arts (36 hrs)

Students selecting this section may be prepared for careers in Hotel/Motel Management or State/Federal Services in which skills in the use of modern languages are required.

— at least 12 adv. sem. hrs. of one foreign language or 18 adv. sem. hrs. of two foreign languages (*i.e.*, 6 and 12).

HIST 4363 U.S.-Latin American Relations  
HIST 4374 The Caribbean and Central America  
Electives 6-0 advanced hours (to be selected in conference with academic adviser)  
TOTAL HOURS = 36

GRAND TOTAL of semester hours required for BAAS — 124 semester hours (45 advanced hours)

## Baccalaureate in General Studies

### Program Description

Students taking the Baccalaureate in General Studies will complete the University College/General Education Requirements.

In addition to and separate from the University College/General Education requirement of 60 semester hours, students taking the Baccalaureate in General Studies will complete the following 64 semester hours. Students taking the Baccalaureate in General Studies will complete a minimum of 124 semester hours with at least 45 hours of advanced course work. Students will develop their academic programs in consultation with an associate dean of the College of Arts and Sciences and the academic advisers for the department(s) involved.

Discipline #1	18 hours (minimum of 12 adv. hours)
Discipline #2	18 hours (minimum of 12 adv. hours)
Discipline #3	18 hours (minimum of 12 adv. hours)
Electives	10 hours (minimum of 9 adv. hours)
Total	124 semester hours (45 adv. hours)

These requirements also apply to the degree:

A minimum of 45 semester hours of advanced course work will be required (3000-4000 level, junior or senior level).

The disciplines selected must come from those taught in the College of Arts and Sciences. The following is a list of College of Arts and Sciences departments along with some potential areas of study:

- Art
- Biology
- Chemistry
- Communication
  - Theatre
  - Speech Communication
- Engineering
- English
- Modern Languages
  - Spanish
  - French
- History
- Mathematics
  - Computer Science
- Music
- Physical Science
- Philosophy
- Political Science
- Psychology
- Sociology

### Summary of Baccalaureate of General Studies Requirements:

University College/General Education	60 semester hours
College of Arts and Sciences Discipline #1	18 semester hours
College of Arts and Sciences Discipline #2	18 semester hours
College of Arts and Sciences Discipline #3	18 semester hours
Electives	<u>10 semester hours</u>
Total	124 semester hours

Advanced course requirement: 45 semester hours

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# The School of Business Administration

*Dr. Jerry Prock, Interim Dean*

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The School of Business Administration at The University of Texas-Pan American was established in 1965 to offer professional training in business. The number of students enrolled in the School has grown to approximately 2,800.

The undergraduate and masters' degree programs of the School of Business Administration are fully accredited by the American Assembly of Collegiate Schools of Business.

## Statement of Objectives

The primary purpose of the School of Business Administration is to offer professional academic training which prepares its graduates for administration of private and public institutions and organizations both nationally and internationally. In addition, the school exists and is organized to provide for the research and service needs of the various publics it serves.

The University of Texas-Pan American is a regional university located in the center of diverse cultures and economies that directly influence the programs of the School of Business Administration. The primary service area of the institution is a region of South Texas known as the Lower Rio Grande Valley. This region, covering an area of more than 4,000 square miles, is populated by more than 700,000 people, primarily of Hispanic origin, and is economically and culturally distinct from the remainder of the state and nation. The local economy depends primarily upon agriculture, tourism, trade and government activities. Significant growth is occurring in the manufacturing sector as a result of continued growth in industrial activity along the Texas-Mexico border and greater access to Mexican markets. Although business establishments are typically small and concentrated in the retail and service sectors, gradual diversification in the area economy and growth in the number of intermediate size manufacturing firms is occurring.

These factors have caused the School of Business Administration to develop programs and curricula which recognize this unique situation, capitalizing upon its strengths and compensating for its limitations.

The basic purpose of this University is to help perpetuate the best of American cultural heritage and to blend with it the outstanding features of Latin American culture. The academic program of the School of Business Administration supports this philosophy by offering its students a broad foundation in the liberal arts and sciences and specialized professional business curricula. This training offers students the opportunity to acquire skills to cope with the demands of business and society while recognizing the unique characteristics of the institution and its constituents. As a professional school, several additional goals are recognized as necessary in the development of graduates from this area to fulfill their role in society.

They include:

- The development of a critical thinking ability coupled with a logical problem-solving approach.
- The development of a professional attitude and an appreciation of the role of business and business-persons in a free enterprise economy.
- The development of basic quantitative skills and the expansion of analytical abilities.
- The development of basic written and oral communications skills.

The regional nature of the University and its obligation to serve the needs of the Lower Rio Grande Valley are recognized and emphasized in the research and service functions of the School of Business Administration.

Student and faculty research are focused on regional concerns. Programs, short courses and seminars are conducted for the area business community and governmental agencies as needs are recognized.

In 1975, the Master of Business Administration degree program was established and a new Business Administration Building was completed. The School conducts research for state, county and city agencies and private firms and holds short courses, seminars and workshops for business and governmental agencies. These non-credit programs have served thousands of persons in the Valley and have provided opportunities for students to work for and with the business world.

Under the umbrella of the Center for Entrepreneurship and Economic Development (CEED), such programs as the Small Business Development Center, the Small Business Institute and the Bureau of Business and Economic Research provide faculty, staff and students the opportunity to participate with business and government entities in the development of the region. The CEED, along with its counterpart entities at The University of Texas-El Paso and Texas A&M International University in Laredo, form the Texas Centers for Border Economic and Enterprise Development. The consortium coordinates its activities with those of state agencies and Mexican entities to foster Texas-Mexico border development.

Chapters of Alpha Kappa Psi, a professional fraternity, and Beta Gamma Sigma, a national honor fraternity, are



open to all business administration majors. A chapter of Data Process Management Association (DPMA) is open to business and computer information services majors. The American Society of Personnel Administrators student chapter is also available, as are the Financial Managers Association, American Marketing Association, Accounting Society, MBA Association and the Forum for International Relations and Business.

A Business Advisory Council, composed of business leaders, provides assistance and advice for the school, serves as a liaison with the business community and helps provide job opportunities for graduates and a foundation for financial support for the School.

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## The School of Education

*Dr. Ernesto Bernal, Dean*

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### Statement of Mission

The School of Education, recognizing its unique multi-cultural setting, supports the written purposes of The University of Texas-Pan American and maintains the following goals:

- Offering professional educators the opportunity to prepare for positions at local, state and national levels.
- Engaging in basic and practice-sensitive research designed to improve the quality of education.
- Providing continuing education activities, both credit and non-credit, for educational practitioners.
- Fostering cooperation with local schools by implementing the concepts of teacher centering.
- Assisting local schools by engaging in approved consultative activities.
- Demonstrating program quality by continuing accreditation through state, regional and national bodies.
- Encouraging faculty to serve as officers and participants in local, state and national professional organizations.
- Providing students with academic and career advisement, and sponsoring pre-professional student educational organizations.
- Cooperating with other schools of The University of Texas-Pan American in the achievement of institutional goals.

The School of Education includes the Department of Curriculum and Instruction — Elementary and Secondary, the Department of Educational Psychology, the Department of School Administration and Supervision, and the Department of Health and Kinesiology.

At the undergraduate level, the School offers a Bachelor of Science degree with majors in Kinesiology and Health. The School of Education offers undergraduate certification in Elementary and Secondary education with options for specialized endorsements. Students are encouraged to see the Departments early in their program for specific degree requirements and development of degree plans.

At the graduate level the School of Education also offers a Master of Education degree with specializations in Elementary and Secondary Education, Early Childhood Education, Reading, Educational Diagnostician, Bilingual Education, Counseling and Guidance, Educational Administration, Gifted Education, Supervision and Physical Education. The School of Education also offers a Master of Arts degree in School Psychology.

Although the graduate programs in education are intended primarily for personnel in public/private schools, the knowledge and skills taught are applicable to other agencies. Although a student may complete some MEd programs at The University of Texas-Pan American without meeting all the specific certification requirements, the 18 semester hours of undergraduate education requirements may not be waived. Please consult with the director of each program for more specific guidelines and information.

Credit for a 5000 level course is not given to a student with previous undergraduate credit in a similar course.

All programs in the School of Education are fully accredited by the Texas Education Agency.

### Certificate Requirements for Teachers

Teachers in Texas elementary (grades 1-6) and secondary (grades 7-12) schools are required by law to hold a valid Texas teacher's certificate at the level in the teaching field and delivery system to which they are assigned.

Students pursuing teacher certification must enter under the new standards for teacher education. Prospective teacher education students should consult with the undergraduate adviser and the appropriate department in the School of Education. Individuals seeking an emergency teaching credential should consult the credentialing officer in the Certification Office of the School of Education.

## **General Requirements for Texas Teaching Credentials**

State Board of Education rules require an individual to have the following qualifications in order to receive a certificate:

- a. Be a citizen of the United States or indicate intent to become a naturalized citizen as evidenced by filing a Statement of Intention to Become a United States Citizen (TCER-023) with the Division of Teacher Certification;
- b. Be at least 18 years of age;
- c. Be of good moral character as evidenced by statement of three individuals or be recommended by a Texas senior college, and be clear of a felony or misdemeanor conviction for a crime which directly relates to the duties and responsibilities of the teaching profession;
- d. Be willing to support and defend the constitutions of the United States and Texas;
- e. Have college credit or examination credit in knowledge of the Texas and federal constitutions and United States history; and
- f. Be able to speak and understand the English language sufficiently to use it easily and readily in conversation and teaching.

## **Texas Testing Requirements**

### **Certification**

To be approved for the provisional or professional teacher's certificate, the superintendent's certificate or other administrative or professional certificates, persons, including those holding a valid out-of-state certificate, shall be required to achieve a satisfactory level of performance on an examination prescribed by the State Board of Education.

The test is called ExCET — Examination for the Certification of Educators in Texas. The ExCET must be taken and passed for the appropriate level, specialization, delivery system, certificate and endorsement to be recommended for certification.

Furthermore, students who enroll only in a certification program are expected to meet or exceed the admission requirements of students in the regular program that corresponds to that certificate.

### **Criminal Records**

In accordance with Article 6252-13c, Texas Civil Statutes, the Texas Commissioner of Education may suspend or revoke a teaching certificate, or refuse to issue a teaching certificate for a person who has been convicted of a felony or misdemeanor for a crime which directly relates to the duties and responsibilities of the teaching profession. All potential certificate applicants with felony or misdemeanor criminal convictions should contact the Certification Officer immediately to seek clarification of their certification status.

### **Admission to Teacher Education Program: Regular Undergraduates**

The School of Education is a professional school whose students must work closely with minors in the public schools. Consequently, admission into the school and continued enrollment in its programs is subject not only to meeting the formal requirements listed above but also to obtaining the endorsement of the undergraduate adviser or the credentialing officer, as appropriate, and meeting the faculty's expectations for effective and professional behavior. Students who enroll in education courses without being formally admitted to teacher education will be dropped from these courses; in the event these courses have been completed, no course credit toward the teaching credential will be awarded.

A student must apply for admission to the Teacher Education Program during the semester in which the student will have earned 60 semester credit hours. A formal application for admission must be filed with the undergraduate adviser of the School of Education and must address the following requirements, which must be met prior to admission into the Teacher Education Program.

1. Passing scores on all three subtest areas of the Texas Academic Skills Program (TASP) test with the following minimal scores in each area:
  - a. Reading 220
  - b. Mathematics 220
  - c. Writing 220
2. Completion of a minimum of 60 earned semester credit hours, which must include the following:
  - a. English 1301 with a "C" or better  
English 1302 with a "C" or better
  - b. Math 1340 or higher with a "C" or better
  - c. 6 semester hours of a foreign language (same language)
  - d. 8 semester hours of a laboratory science (same science)
3. Achieve a 2.25 grade point average (GPA) for the 60 earned semester credit hours in general education, the support area, and academic specialization.
4. No course may be substituted for another unless a grade of "C" or better has been earned in that course.
5. Meet all of the common physical and speech requirements of teaching.
6. File an official degree plan for those seeking elementary or secondary certification.
7. Transfer students must delay application until successful completion of above requirements.

**Admission to Student Teaching: Regular Undergraduates**

Students in the undergraduate teacher education program must make a separate application to be admitted to student teaching as they near the completion of their professional coursework. Applicants must have achieved a grade-point average of 2.5 overall and in their support area (major) and academic specialization. This requirement goes into effect for all students as of the Spring 1996 term.

**Admission to Teacher Education: Emergency Permit Deficiency Plan**

School districts sometimes hire individuals who have not yet completed all of the requirements to receive a teaching certificate in order to meet their staffing needs on an emergency basis.

A student must request that a Deficiency Plan be developed by the Certification Office and must also apply for admission to the Teacher Education Program. All requirements as described above by the regular Teacher Education Program must be met along with all requirements indicated on the Deficiency Plan. (An appropriate fee will be charged for the preparation of the Deficiency Plan.)

**To receive a Deficiency Plan, the student must be admitted to Teacher Education and, in addition, meet the following criteria:**

*Total hours completed must add up to 90 or more (instead of the regular 60 semester hours).*

**For Elementary Certification** — 12 semester hours of Elementary Education courses must be completed prior to applying for the Deficiency Plan.

**For Secondary Certification** — 24 semester hours must be completed in the area of teaching placement prior to applying for the Deficiency Plan.

**For Persons on Deficiency Plans:** The University of Texas-Pan American's School of Education will not recommend persons on Deficiency Plans for certification without their completing the courses outlined in their plans, passing the ExCET tests AND submitting a signed and certified statement from a designated school district official (personnel director or building principal) which attests to their success in working with students in a setting that corresponds to the area of certification sought.

**Alternative Certification Program (ACP)**

The ACP is designed for prospective public school teachers with degrees in disciplines other than education. The program offers a fast, efficient path to the classroom as the teacher of record. While employment is not guaranteed, success in placement is considered high.

Certification is offered in six tracks: elementary, elementary/bilingual, elementary/ESL, secondary, ESL, and special education. Preassignment courses provide the academic foundation to enter the classroom in a specific track. The assignment (internship) phase consists of two six-hour courses (one fall, one spring). Internship courses require a special course fee. A criminal records check will be conducted by employing districts; a felony conviction may be disqualifying.

Program prerequisites include: admission to teacher education, a baccalaureate degree from an accredited institution, overall GPA of 2.5, passing score on TASP, FAST, or PPST, and credit for college algebra (or higher) with a "C" or better.

**The University Teacher Education Committee**

All departments that offer certificate programs at The University of Texas-Pan American maintain membership on the University Teacher Education Committee. The basic functions of the committee are as follows:

1. Approve any teacher education program changes originating in the School of Education or in departments offering certification programs.
2. Approve any changes in courses that are part of any university certification program.
3. Approve candidates for elementary, secondary and all-level student teaching.
4. Approve appeals made by prospective student teachers who had previously been denied or dropped or who failed student teaching.

It shall be understood that approval of an application does not constitute subsequent recommendation on the part of the University for a certificate to teach. Such recommendation is contingent upon continued demonstration of promise as a prospective teacher and completion of the certification requirements both in professional education and in the major or minor teaching fields.

**The University of Texas-Pan American  
Local Cooperative Teacher Center Advisory Board**

The Advisory Board is composed of faculty members and administrators from both the University and public school districts. Typical membership is as follows:

- 3 University representatives
- 3 Public school district administrators
- 3 Public school teachers representing 3 different professional organizations of
- 1 Region I Education Service Center representative.

The purpose of the Advisory Board is to advise the University on matters regarding admission and certification requirements, course offerings, program changes, field experience and student teaching.

#### **Graduate School Requirements by the School of Education**

In addition to the general admission requirements set out elsewhere in this bulletin, the following specific requirements must be met:

1. Applicants for admission will be required to have completed 18 semester hours undergraduate work in their proposed graduate major field. These 18 hours will include a minimum of 12 hours of advanced work. Each minor graduate field presented will require evidence of completion of 12 hours of undergraduate work, of which 6 must be advanced hours.
2. The choice of courses in the major and minor fields, as well as the nature of the supporting work, will be determined through consultation between the student and his or her graduate adviser.
3. Satisfactory completion of an oral examination following the completion of 12-18 semester hours of graduate work.
4. Satisfactory completion of a written comprehensive examination during the last semester of graduate work.
5. The student must also complete any specific admission, program and exit requirements by the program he or she wishes to pursue. Requirements for admission to certification programs in Educational Administration, Special Education, School Psychology and Gifted Education are specifically outlined in their respective sections of this catalog.

## **School of Health Sciences**

*Dr. Judy E. Perkin, Dean*

Recognizing the need for the University to take a leading role in the education of health care professionals, the School, with the assistance and the cooperation of the Valley's health care delivery systems, is dedicated to providing educational programs necessary to meet the needs for competent health workers in the Rio Grande Valley and Texas.

The School of Health Sciences offers an Associate of Applied Science degree in Nursing and Bachelor of Science degrees in Dietetics, Medical Technology, Nursing and Rehabilitative Services. A Master of Science degree in Nursing is offered at the graduate level. General Admission requirements conform to those of the University. Specific variations of requirements are stated within each program description. Interdisciplinary courses in health science are offered to:

1. promote and provide understanding of the role of personnel involved in the delivery of health care,
2. focus on the team approach to client/patient care,
3. introduce the student to the wide range of available health careers, and
4. provide the student with a working knowledge of medical terminology.

Another interdisciplinary course is offered to teach basic clinical nutrition concepts.

The faculty and staff of the School provide academic advisement and assistance to students pursuing health careers. Curricula for all health-related programs are structured to provide theory as well as clinical learning experiences. In order to provide the proposed clinical practicum, the University has negotiated affiliation agreements with a number of health service facilities in the South Texas area as well as statewide.

### **Interdisciplinary Courses**

#### **Course Descriptions**

#### **School of Health Sciences**

#### **HRP 1401 INTRODUCTION TO HEALTH-RELATED PROFESSIONS**

Fall, Spring

A survey of careers within the health service industry, their educational and clinical practice requirements and employment opportunities. Correlated health service organization, history and trends, terminology, ethics, legal aspects, professional

affiliations, team roles and relationships. Lecture/discussions will be designed to provide the student with specific information concerning the health-related professions' roles in providing health care services. 3 hours lecture and 4 hours lab per week. No prerequisite.

### **DIET 2351 INTRODUCTION TO CLINICAL NUTRITION**

Fall, Spring, Summer

Basic principles of human nutrition with emphasis on the nutrients and factors that affect their utilization in the human body. Nutritional requirements of the body at all age levels. Modern concept of an adequate diet. Cultural influences on food selection. Principles of diet modification and its importance in the treatment of disease. 3 hours lecture per week.

### **HRP 2402 MEDICAL TERMINOLOGY**

Fall, Spring

This course is designed to introduce the student to analysis techniques, correct spelling and pronunciation of medical terms. The student will have the opportunity to learn a medical vocabulary, develop skills in recognizing medical terms by analyzing their elements and relating them to the corresponding anatomical site. 3 hours of lecture and 4 hours of lab per week.

### **HRP 3310 SPECIAL TOPICS IN PATIENT CARE ISSUES**

On Demand

The topics will vary according to current issues in the provisions of health care and prevention. Offering of course will be contingent on student demand. May be repeated once for credit, as topics vary. *Prerequisite: Approval of department.*

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## **Department of Accounting and Economics**

*Dr. Charles J. Ellard, Chair*

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### **Accounting**

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#### **Full-time Faculty**

Atamian, Rubik (PhD, University of Texas at Austin, 1984), Assistant Professor, Accounting.

Degnan, Theodore E. (PhD, University of South Carolina, 1983), Associate Professor, Accounting.

DeMerville, Wiggins (PhD, Texas Tech University, 1978), CPA, Professor, Accounting.

Ganguli, Gouranga (PhD, University of Mississippi, 1983,) Professor, Accounting.

Petrie, A. George (PhD, Louisiana State University, 1970), CPA, Associate Professor, Accounting.

The Department of Accounting and Economics offers the BBA degree with a major in Accounting or Economics. In addition, the Department offers a BA degree and a minor in Economics. A major in Accounting is designed to prepare graduates for entry-level positions in both private and public accounting. The degree entitles a graduate to take each of the accounting certification examinations: CPA, CMA and CIA, depending on the graduate's interest. Since each examination is structured to test the candidates over a broad range of accounting topics, students should seek advice from the accounting faculty to select elective courses that will aid their satisfactory completion of certification requirements. Students majoring or minoring in economics may seek careers in government or business.

The coursework leading to the BBA degree in Accounting or Economics is classified as follows:

A. University College/General Education and Business Foundation Courses	76	hours
B. Business Core Courses	33	hours
C. Specialization (Major) Courses	24-30	hours
Total	133-136	hours

Degree applicability of coursework from business programs that are not accredited by the American Assembly of Collegiate Schools of Business (AACSB) must be determined through appropriate validation procedures and/or examination. Final approval of non-AACSB accredited coursework will be by the Department Chair or Dean of the Business School.

#### **University College/General Education & Business Foundation Courses**

*Course*

English 1301, 1302 plus 6 hours of sophomore literature

GENB 1331 (Not required of student scoring 19 or more on

*Hours*

12

ACT composite) or upper division business electives	3
CIS 1301	3
ECO 2353, 2354	6
ACC 2421, 2329	7
Foreign Language — 6 hours in same language	6
COMM 1303	3
MATH 1321, 1322	6
Natural Science — 8 hours in same discipline	8
History 2313 or 2333 plus 2314	6
Political Science - POLS 2313, 2314	6
KIN – 4 hours – any 2 activity courses	4
3 hours from: ANTH 1323, 1324, 2323, 2353	
PSY 1313, 1323, SOC 1313, 1323, 2333	3
3 hours from: ART 1301, 3381, COMM 2312	
MUS 1301, 1302, 2307, 2308, 3311, PHIL 1310, 1320, 2330	3
Total	76

### Business Core

<i>Course</i>	<i>Hours</i>
FINA 3383	3
GENB 3335, 3337, 3330	12
MANA 2341, 3342, 3361, 3390, 4363, 4369	15
MARK 3371	3
Total	33

NOTE: Before being allowed to enroll in 3000 or 4000 level business courses, a student must complete the following: CIS 1301, ECO 2353, ECO 2354, ACC 2421, ACC 2329 and either

1. attain a "C" grade in each course, or
2. a GPA of 2.25 or higher on the five courses.

## Degree Requirements

### Major in Accounting

The admission and graduation requirements for an accounting major involve two steps: First, all students desiring an accounting degree must initially specify "Pre-Accounting" as their major. This designation would be effective for all students changing major, transfer students, special students and entering freshmen. Second, the student then applies to the Accounting Admission Committee for a change to "Accounting" major status when the following guidelines are met:

1. Applicants must be in good academic standing (non-probationary status).
2. Applicants must have completed at time of application at least 10 semester hours of accounting, including ACC 2421, 2329 and 3321, with an accounting grade point average of 2.2 for all accounting courses taken at the time of application.
3. Admission of the applicant to the accounting concentration will be determined by the Accounting Admission Committee or their designated representative(s).
4. Students who have been denied admission to the accounting program may appeal to the Dean of the School of Business Administration according to his appeal requirements.

In addition to the General Education and Business Foundation courses and the Business Core requirements, accounting majors must have an average grade point of at least 2.5 in all accounting courses taken in order to graduate.

General Education and Business Foundation, and  
Business Core Courses

109 hours

#### *Accounting Specialization Courses*

ACC 3321 Intermediate Accounting I  
ACC 3322 Intermediate Accounting II  
ACC 3329 Intermediate Accounting III  
ACC 3323 Income Tax Procedure  
ACC 3324 Cost Accounting  
ACC 4330 Advanced Accounting I  
ACC 4324 Auditing

21 hours

**Accounting Electives\* — Select 9 hours from:**

ACC 3325 Fund Accounting	
ACC 3326 Accounting Information Systems	
ACC 3328 Advanced Cost Accounting	
ACC 4331 Advanced Accounting II	
ACC 4323 Contemporary Accounting Theory	
ACC 4327 Auditing II	
ACC 4329 Advanced Income Tax Procedure	9 hours

Total Requirements

30 hours  
139 hours

\*Selection of accounting elective courses should be made by the student in accordance with his or her interest in either public practice or industry/government practice. All 4000-level accounting courses are limited to students who have been admitted to the Accounting Major or to special students who are in conformity with Accounting Major admission standards.

## Course Descriptions

### Accounting

#### ACC 2329 FUNDAMENTALS OF MANAGERIAL ACCOUNTING

(Texas Common Course Number is ACCT 2301.)

Fall, Spring, Summer

Introduction to Financial Statements and product costing for manufacturing concerns, organizational planning and budgeting, cost control and responsibility accounting. *Prerequisite: ACC 2421 with grade of "C" or better.*

#### ACC 2421 INTRODUCTION TO FINANCIAL ACCOUNTING

(Texas Common Course Number is ACCT 2401.)

Fall, Spring, Summer

The course discusses the accounting environment; the accounting model; business transaction analysis and financial statement preparation; financial statement analysis; accounting for assets, liabilities and owners' equity in proprietorships and corporations; mandatory lab, two hours per week. *Prerequisite: MATH 1340 or 1321 with a grade of "C" or better.*

#### ACC 3321 INTERMEDIATE ACCOUNTING I

Fall, Spring

A study of the accounting process and financial statements, including a thorough examination of the procedures involved in financial statement presentation as well as the underlying theory; a detailed study of current assets and current liabilities.

*Prerequisite: ACC 2329 with a grade of "C" or better.*

#### ACC 3322 INTERMEDIATE ACCOUNTING II

Fall, Spring

Continuation of the examination of the accounting process with emphasis on non-current assets and liabilities including pensions and leases. *Prerequisite: ACC 3321 with a grade of "C" or better.*

#### ACC 3323 INCOME TAX PROCEDURE

Fall, Spring, Summer

Analysis of federal tax laws, emphasis being placed on the determination of net taxable income and the preparation of income tax returns for individuals. *Prerequisite: ACC 2329 with a grade of "C" or better.*

#### ACC 3324 COST ACCOUNTING

Fall, Spring, Summer

Basic cost accounting concepts and techniques, with an emphasis on providing information for management decision-making. Topics include job and process costing, cost-volume-profit analysis, budgeting, standard costs and variance analysis, direct costing, cost behavior, discretionary costs and relevant costs. *Prerequisite: ACC 2329 with a grade of "C" or better.*

#### ACC 3325 FUND ACCOUNTING

On Demand

The special features of fund accounting as applied to not-for-profit entities, municipalities, school districts and other governmental units. *Prerequisite: ACC 2421 with a grade of "C" or better.*

### **ACC 3326 ACCOUNTING INFORMATION SYSTEMS**

On Demand

Basic concepts and techniques associated with the analysis, design and installation of manual and computerized accounting information systems. *Prerequisite: ACC 3321 and CIS 1301.*

### **ACC 3328 ADVANCED COST ACCOUNTING**

On Demand

A continuation of ACC 3324. Topics include cost allocations, process costing with spoilage and scrap losses, decentralization, inventory control, mix-and-yield variance analysis and quantitative subject areas such as linear programming and regression analysis. *Prerequisite: ACC 3324 with a grade of "C" or better.*

### **ACC 3329 INTERMEDIATE ACCOUNTING III**

Fall, Spring

Continuation of the examination of the accounting process with emphasis upon equity accounts of corporations and partnerships; introduction to corporate taxation, nonprofit accounting and other special topics. *Prerequisite: ACC 3322 with a grade of "C" or better.*

### **ACC 3350 INTRODUCTION TO INTERNATIONAL ACCOUNTING**

Examines similarities and differences between accounting in the United States and those of other countries. Considers accounting for foreign currency translation, inflation, consolidation of foreign subsidiaries and taxation. Considers the impact of the local environment on accounting-related activities and the analysis of financial statements. *Prerequisites: ACC 2329, GENB 3330.*

*All 4000 level Accounting courses are limited primarily to students who are in conformity with Accounting Major admission standards and receive permission of department chair.*

### **ACC 4323 CONTEMPORARY ACCOUNTING THEORY**

On Demand

Contemporary advanced accounting and auditing theory, including controversial issues, with emphasis on income determination and asset valuation; particular attention is given to current publications of the professional and governmental agencies. *Prerequisite: ACC 3322 with grade of "C" or better; credit for ACC 4324 (or concurrent enrollment therein with the permission of the instructor).*

### **ACC 4324 AUDITING I**

Fall, Spring

A survey of auditing standards and procedures applied by public accountants and internal auditors in examining financial statements and verifying underlying data. The scope of this course includes elements of operational auditing. *Prerequisite: ACC 3322 with a grade of "C" or better and credit or concurrent enrollment in MANA 3342.*

### **ACC 4327 AUDITING II**

On Demand

An advanced study of selected standards of auditing. The course will emphasize: new topics in auditing, cases, readings and problems used to illustrate applications of auditing. Included are such topics as statistical sampling, auditing effects of EDP, internal auditing functions, operational auditing and work paper techniques. *Prerequisite: ACC 4324 with a grade of "C" or better.*

### **ACC 4329 ADVANCED INCOME TAX PROCEDURE**

On Demand

Tax regulations applicable to partnership and corporations, together with the preparation of federal tax returns for such businesses. Federal gift, estate and inheritance taxes are considered. *Prerequisite: ACC 3323 with a grade of "C" or better with permission of the instructor.*

### **ACC 4330 ADVANCED ACCOUNTING I**

Fall, Spring

A study of the theory and techniques of accounting for partnerships and consolidated financial statements. *Prerequisite: ACC 3322 with grade of "C" or better.*

### **ACC 4331 ADVANCED ACCOUNTING II**

Spring

A study of selected accounting topics. This course will have variable content and may be repeated for credit with consent of instructor. *Prerequisite: ACC 3322 with a grade of "C" or better.*



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## Economics

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### Full-time Faculty

Cardenas, Gilbert (PhD, University of Illinois, 1977), Professor, Economics.  
Ellard, Charles J. (PhD, University of Houston, 1974), Professor, Economics.  
Taube, Paul M. (PhD, State University of New York, 1986), Associate Professor, Economics.  
Vento, Edward (PhD, Texas A&M University, 1972), Associate Professor, Economics.

### Major in Economics — BBA

University, College, General Education, Business Foundation  
and Business Core Courses

109 hours

#### ECONOMICS SPECIALIZATION COURSES

ECO 3351 Macroeconomic Theory

ECO 3352 Microeconomic Theory

ECO 4359 History of Economic Thought

9 hours

ECONOMICS ELECTIVES (UPPER DIVISION)

15 hours

24 hours

Total Requirements

133 hours

### Economics Major — BA (Minor Required)

General Education and Economics BA Foundation\*

70 hours

MANA 2341

3 hours

#### ECONOMICS SPECIALIZATION COURSES

ECO 3351 Macroeconomic Theory

ECO 3352 Microeconomic Theory

ECO 4359 History of Economic Thought

9 hours

ECONOMICS ELECTIVES (UPPER DIVISION)

15 hours

24 hours

Electives (including minor hours)

36 hours

Total Requirements

133 hours

\*The General Education and Economics BA Foundation includes all requirements as stated in the General Education and Business Foundation except GENB 1331 and ACC 2329 are not required.

### Minor in Economics

A minor in Economics is available to students from all areas within the University and requires 18 hours of Economics that include 6 hours of economics electives.

ECO 2353 Principles of Economics I

ECO 2354 Principles of Economics II

ECO 3351 Macroeconomic Theory

ECO 3352 Microeconomic Theory

ECO Electives

(6 hours)

Total minor requirements

18 hours

## Course Descriptions

### Economics

#### ECO 1301 INTRODUCTION TO ECONOMICS

(Texas Common Course Number is ECON 1301.)

Fall, Spring, Summer

Economics for students who have active interests in fields other than business administration or economics. Primary emphasis is given to developing an understanding of man in relation to his economic environment. Students will have the opportunity to gain knowledge of the purpose, functions and results of a capitalistic system and understanding of current economic problems.

### **ECO 1387 INTRODUCTION TO ECONOMICS – HONORS**

On Demand

An introduction to the Principles of Economics with primary emphasis on man in relation to his economic environment. Students will have the opportunity to gain knowledge of the purpose, functions and results of a market system and understanding of current economic problems. *Prerequisites: MATH 1334 or satisfactory ACT placement, admission to Honors Studies or by invitation. Credit may be received in only one of Economics 1301 or 1387.*

### **ECO 2353 PRINCIPLES OF ECONOMICS I**

(Texas Common Course Number is 2302.)

Fall, Spring, Summer

An introduction to basic microeconomic concepts and methods. The competitive market system. Problems of resource allocation and economic efficiency in the market economy. Government regulation and the public sector. (Formerly ECO 2352; may not be repeated for credit.) *Prerequisite: MATH 1334 with a grade of "C" or better. Satisfactory score on Math or ACT Placement Exam.*

### **ECO 2354 PRINCIPLES OF ECONOMICS II**

(Texas Common Course Number is ECON 2301.)

Fall, Spring, Summer

An introduction to basic macroeconomic concepts of aggregate supply and demand and income determination. Money and banking. Unemployment, inflation and economic policy. International economics and comparative economic systems. (Formerly ECO 2351; may not be repeated for credit.) *Prerequisite: ECO 2353.*

### **ECO 3336 THE POLITICAL ECONOMY OF MEXICO**

On Demand

Surveys the growth of the Mexican economy, its institutions and problems. Emphasis is placed on the relative roles of government and private enterprise in the development process. *Prerequisite: ECO 2353 and 2354.*

### **ECO 3351 MACROECONOMIC THEORY**

Fall, Spring

An analysis of the construction, character and operational uses of macro-economic models of classical, Keynesian and monetarist origin. Applications of the foregoing models to problems of inflation, unemployment, interest rates and investment in the United States economy. *Prerequisite: ECO 2353 and 2354.*

### **ECO 3352 MICROECONOMIC THEORY**

Fall, Spring

The theory of consumer demand and the theory of the firm. Supply and demand analysis, distribution theory and imperfect competition. *Prerequisite: ECO 2353 and 2354.*

### **ECO 3353 INTERNATIONAL TRADE**

On Demand

The mechanism of international trade and its effects on a national economy. Foreign investments, cartels, international output and price controls. *Prerequisite: ECO 2353 and 2354.*

### **ECO 3355 ECONOMIC DEVELOPMENT**

On Demand

A study of the multidimensional factors/forces influencing material development and the eradication of poverty. Topics include: theories of economic growth and development, investment and capital development, market efficiency and growth, technology and technological transfers, international trade and development. *Prerequisite: ECO 2353 and 2354.*

### **ECO 3357 ECONOMICS OF POVERTY**

On Demand

Causes and social consequences of poverty, natures and effectiveness of income transfer programs; includes topics such as welfare reform, social security, pension plans, medicare, national health and negative income tax programs. *Prerequisite: ECO 2353 and 2354.*

### **ECO 3358 LABOR ECONOMICS**

On Demand

Labor market structures and processes; patterns and determinants of work and wages; labor force participation, unemployment, discrimination and human capital. Public policy on manpower development and utilization. *Prerequisite: ECO 2353 and 2354.*

### **ECO 3359 MEXICAN-AMERICAN LABOR**

On Demand

This course is designed to analyze the role and contribution of Mexican Americans in the U.S. labor market. Employment

patterns of Mexican Americans will be studied. Special emphasis will be given to such issues as the relationship between education, work and poverty; discrimination; human resources development; and the labor market along the United States-Mexico Border. *Prerequisite: ECO 2353 and 2354.*

#### **ECO 4357 REGIONAL-URBAN ECONOMICS**

On Demand

Introduction to economic theories and policies associated with regional and urban development. The role of the policy-making government agencies and firms in regional urban development. Includes topics such as industrial development, poverty, housing and transportation. *Prerequisite: ECO 2353 and 2354.*

#### **ECO 4359 HISTORY OF ECONOMIC THOUGHT**

On Demand

A survey of the entire field of economics. Pre-scientific, classical and contemporary works will be studied to offer knowledge of the development of economic theory and view of current direction and scope. *Prerequisite: ECO 2353 and 2354.*

#### **ECO 4361 STUDIES IN ECONOMICS**

On Demand

A special topic selected by the instructor will be assigned. Total course content will be established a priori. This course will have variable content and may be repeated for credit with consent of instructor. *Prerequisite: ECO 3351 and 3352.*

#### **ECO 6353 LATIN AMERICAN ECONOMIC DEVELOPMENT**

On Demand

Economic development principles as applied for the Latin American experience; growth and development strategies including trades, borrowing, aid, education, infrastructure development and entrepreneurial activities. *Prerequisites: ECO 6301 or ECO 2353 and 2354.*

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## **Anthropology**

See Department of Psychology and Anthropology

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## **Allied Health Programs**

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### **Clinical Laboratory Sciences (Medical Technology)**

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#### **Faculty**

Chandler, Karen (MA, Central Michigan University, 1983; MT, Purdue University, 1971), Assistant Professor.

Felkner, Marilyn (MPH, University of Texas Health Science Center, 1982), Assistant Professor.

Tijerina, Sandra L., (MS, Corpus Christi State University, 1992), Assistant Professor.

Clinical Laboratory Sciences (Medical Technology) is a profession in which theoretical knowledge in the fields of Biology and Chemistry are applied in the analysis of various cells, tissues and body fluids from patients for diagnostic purposes. Medical Technologists assist in diagnosis, treatment, and prognosis of disease conditions through laboratory procedures in hematology, microbiology, immunology, blood banking, clinical chemistry and Urinalysis.

The pre-professional curriculum is composed of 88 semester hours of general education requirements, biology and chemistry courses. Admission to the professional portion (senior year) of the Clinical Laboratory Sciences program is limited; therefore, students are urged to keep high standards of performance during their pre-professional years.

In order to be accepted into the senior-year professional Clinical Laboratory Sciences curriculum, the student must make application to the Medical Technology Program upon completion of 70 semester hours of pre-professional course work, but no later than May 31 of each year. The Admissions Committee meets twice a year, in April and June. In its April meeting, the committee will consider all applications received before March 31. Applications received after March 31 are considered on a space available basis. A completed application must contain official transcripts and three letters of reference. A minimum GPA of 2.4 or better is normally required for admission to the program. Those UT Pan American students not accepted into the program may satisfy their degree requirements by completing a one-year training program in a CAHEA-accredited hospital-based Clinical Laboratory Sciences program.

A student who does not wish to receive a degree from The University of Texas-Pan American but who wishes to attend the professional portion of the curriculum must either:

1. hold a baccalaureate degree from an accredited institution and have completed 16 semester hours of Biology, including a course in Microbiology and Immunology, 16 semester hours of Chemistry including organic, and 3 semester hours of college-level Mathematics, or
2. have at least 90 semester hours of college credits completed, with 16 semester hours of Biology, including a course in Microbiology and Immunology; 16 semester hours of Chemistry, including a course in Biochemistry or Organic Chemistry; 3 semester hours of college level Mathematics; and a notarized letter from the registrar of his or her parent university stating that, upon satisfactory completion of the Clinical Laboratory Sciences curriculum offered at The University of Texas-Pan American, the student will be awarded a baccalaureate degree.

### **Degree Requirements**

A total of 138 semester hours including 16 semester hours in Biology, 16 semester hours in Chemistry and 50 semester hours of Clinical Laboratory Sciences. All professional courses must be completed with a "C" or better. Required courses are outlined in the curriculum below.

### **Certification Requirements**

Baccalaureate degree including 16 semester hours of Biological Sciences, 16 semester hours of Chemistry, 3 semester hours of College Algebra, and completion of the accredited Clinical Laboratory Sciences program. Microbiology, Immunology and Organic Chemistry courses should be part of the curriculum. All professional courses must be completed with a "C" or better.

### **University College/General Education Requirements**

English (Freshman) ENG 1301 and 1302

(or ENG 1387 and 1388)

6 hours

English Literature — ENG 2300, 2303,  
2305, 2307, 2308, 2313

6 hours

Biology 1401 and 1402

8 hours

Math 1340 or higher level

3 hours

Political Science — POLS 2313, 2314

6 hours

History — HIST 2313, 2314

6 hours

Kinesiology Activities

4 hours

CS 1300, 1380, 2325 or CIS 1301

3 hours

COMM 1303 or COMM 1313

3 hours

Foreign Languages — 6 hours of the same Language

6 hours

3 hours from one of the following Areas

3 hours

Area 1: The Arts

ART 1301, 3381

COMM 2312

MUS 1301, 1302, 2307, 2308 or 3311

Area 3: Philosophy

PHIL 1310, 1320, 2330, 2340, 2350, 2370

Area 4: Honors

Honors Studies 2387 or Honors Studies 2388

6 hours from two of the following areas:

6 hours

a. Anthropology

ANTH 1323, 1324, 2323, 2342, 2352

b. Economics

ECO 1301, 2353

c. Psychology

PSY 1313, 1323

d. Sociology

SOC 1313, 1323 or 2333

### **Departmental Requirements**

HRP 1401 or 2402

4 hours

BIOL 3401 and BIOL 3403

8 hours

CHEM 1401 and 1402

8 hours

CHEM 3401 and 3404 or CHEM 3403

8 hours

### **Program Requirements**

CSLC 3401, 4214, 4222, 4301, 4302, 4303, 4304, 4313, 4332, 4410, 4412, 4420, 4421, 4430, 4431

## Special Notes

- May attend an accredited hospital-based MT program in senior year.
- Senior year courses include clinical practicum.  
Incomplete grades will be carried until completion of rotation in the appropriate clinical department.
- Upper level immunology may be substituted for BIOL 3403.
- Students must complete all professional courses with a grade of "C" or better. Students who receive a "D" or below in the on-campus professional courses will not be allowed to proceed to clinical rotations until a satisfactory grade of "C" or better is attained.
- Readmission to the program is not automatic and is on a space-available basis.

## Course Descriptions

### Clinical Laboratory Sciences

#### CLSC 3401 CLINICAL LABORATORY INSTRUMENTATION I

Spring

Basic clinical chemistry instrumentation such as colorimeters, spectrophotometers, flame photometers, atomic absorption photometers, fluorometers, gamma counters, centrifuges, incubators, gas analyzers and electrophoretic equipment will be dealt with. Basic laboratory mathematics, statistics and electronics for general understanding, operation and quality control of these instruments also will be presented. Students of biology, biochemistry, and health-related professions will find this course extremely useful. 3 hours of lecture and 4 hours of laboratory per week. Lab fee \$4. *Prerequisite: MATH 1340, CHEM 1401, 1402, and BIOL 1401, 1402, or Special Approval.*

#### CLSC 4214 IMMUNOHEMATOLOGY II

Fall

Continuation of Immunohematology I to include clinical application. 1 hour lecture and 3 hours laboratory. *Prerequisite: Admission into Medical Technology Program, or Special Approval.*

#### CLSC 4222 CLINICAL CHEMISTRY III

Spring

Continuation of Clinical Chemistry II to include special chemistries. 1 hour lecture and 3 hours laboratory. *Prerequisite: Admission into Medical Technology Program, or Special Approval.*

#### CLSC 4301 METHODS OF ANALYSIS I

Fall

Specimen collection and processing, basic microscopic techniques in Urinalysis, Microbiology and Hematology. 2 hours of lecture and 3 hours of laboratory. *Prerequisite: Admission into Medical Technology Program, or Special Approval. Lab fee \$4.*

#### CLSC 4302 SEROLOGY

Fall

Serodiagnostic tests for syphilis and febrile diseases; identification of antistreptococcal, antinuclear and antithyroid antibodies; serologic procedures for C reactive proteins, rheumatoid arthritis and parasitic and fungal infections. 2 hours lecture and 3 hours laboratory. *Prerequisite: Admission into Medical Technology Program, or Special Approval. Lab fee \$4.*

#### CLSC 4303 MEDICAL LABORATORY LEADERSHIP

SS II

General principles of management, supervision, education, research, record keeping and legal aspects of laboratory medicine will be presented. Overall review of all professional techniques and procedures and a comprehensive final examination will be administered. *Prerequisite: Admission into Medical Technology Program, or Special Approval.*

#### CLSC 4304 URINALYSIS

SS I

Lectures present the physiology of urine formation and the relationship of abnormalities in the urine of renal and systemic disease. Chemical tests and microscopic examination are utilized in the laboratory. 1 hour lecture and 6 hours laboratory. *Prerequisite: Admission into Medical Technology Program, or Special Approval.*

#### CLSC 4313 IMMUNOHEMATOLOGY I

Spring

Theoretical aspects of the immune response, its relation to the diagnosis of disease and to blood banking are presented.

Detection, identification and characterization of antibodies, blood grouping and typing and compatibility testing are presented by laboratory experiments. 2 hours lecture and 3 hours laboratory. *Prerequisite: Admission into Medical Technology Program, or Special Approval.*

#### **CLSC 4332 CLINICAL PARASITOLOGY**

SS I

Lecture and laboratory study on animal parasites producing disease in the human with emphasis on life cycle, identifying characteristics and the pathology these parasites provoke in man. 2 hours lecture and 3 hours laboratory.

*Prerequisite: Admission into Medical Technology Program, or Special Approval.*

#### **CLSC 4410 HEMATOLOGY I**

Fall

Studies on the formation, function and identifying characteristics of the cellular elements of blood in health. Lecture and laboratory emphasize the enumeration, morphology and staining characteristics of normal blood cells. 2 hours of lecture and six hours laboratory. *Prerequisite: Admission into Medical Technology Program, or Special Approval.*

#### **CLSC 4412 HEMATOLOGY II**

Fall

Continuation of Hematology I to include disease states and abnormal cells. Lecture and laboratory studies in blood coagulation physiology and methods of detecting defects are presented. 2 hours lecture and 6 hours laboratory. *Prerequisite:*

*Admission to Medical Technology Program, or Special Approval.*

#### **CLSC 4420 CLINICAL CHEMISTRY I**

Fall

Studies in clinical chemistry with emphasis on the physiology of normal and abnormal metabolism. Manual and automated laboratory procedures for the quantitation of body constituents employing gravimetric, volumetric, gasometric, titrametric and spectrophotometric techniques. 2 hours lecture and 6 hours laboratory. *Prerequisite: Admission into Medical Technology Program, or Special Approval.*

#### **CLSC 4421 CLINICAL CHEMISTRY II**

Spring

Continuation of Clinical Chemistry I. 2 hours lecture and 6 hours laboratory.

*Prerequisite: Admission into Medical Technology Program, or Special Approval.*

#### **CLSC 4430 CLINICAL MICROBIOLOGY I**

Spring

Lecture and laboratory studies of human pathogenic bacteria. Emphasis on staining, cultural and differential biochemical characteristics, methods of isolation from body fluids and susceptibility to therapeutic agents. 2 hours lecture and 6 hours laboratory. *Prerequisite: Admission into Medical Technology Program, or Special Approval.*

#### **CLSC 4431 CLINICAL MICROBIOLOGY II**

Fall

Continuation of Clinical Microbiology I including fungi, viruses and rickettsia. 2 hours lecture and 6 hours laboratory.

*Prerequisite: Admission into Medical Technology Program, or Special Approval.*

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## **Coordinated Program (CP) In Dietetics**

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#### **Full-time Faculty**

Frydrychowicz, Lenore (MS, University of Northern Illinois, 1993), Registered/Licensed Dietitian, Assistant Professor.

Perkin, Judy (DPH, University of Texas Health Science Center at Houston, 1981), Registered Dietitian, Professor.

Sanchez, Mary (MS, Incarnate Word College, 1989), Registered Dietitian, Assistant Professor.

#### **General Description**

Dietetics is a profession concerned with the science and art of human nutritional care, an essential component of health science. It includes the extending and imparting of knowledge concerning foods which will provide nutrients sufficient for health and during disease throughout the life cycle and the management of group feeding. Dietitians, by their education,

training and knowledge of the interrelationships of food, nutrition and health are uniquely qualified to help individuals and society to meet these needs.

The Coordinated Program in Dietetics is accredited by the American Dietetic Association. The "generalist" program allows the student to gain knowledge and experience required for a dietetics profession in food service management, clinical nutrition or community nutrition.

"Traditional" dietetic programs require students to complete a one-year internship after graduation with a bachelor's degree in foods and nutrition or institutional management. The University of Texas-Pan American's dietetic program is unique in that it combines the two into a four-year program. Completion of the dietetics program leads to a Bachelor of Science degree with a major in Dietetics, membership eligibility in the American Dietetic Association and eligibility to take the national registration examination.

### Requirements for Admissions into the Dietetics Program

#### A. Submission of the following:

1. Completed application for admission to the Dietetics program. (Call 381-2291 for information.)
2. Unofficial transcript revealing completion of at least 60 credit hours with a minimum of 2.20 grade point average to include (or to include at start of the program):  
ENG 1301, 1302  
MATH 1340 (or equivalent)  
BIO 2403, 2404, 3401  
CHEM 1401, 1402, 3401  
HRP 1401 or 2402\*, DIET 2351, 2352  
\*Preferred for CPD (Coordinated Program in Dietetics) students
3. Three letters of recommendation.
4. Handwritten letter from the applicant stating reason for interest in the Dietetics program.
5. Results of the Nelson-Denny Reading Test (test administered through the Learning Assistance Center).

#### B. Selection by the Admissions Committee is based upon the following:

1. Completion and submission of the required material by the first Monday in April.
2. Grade point average overall and in science courses.
3. Evaluation of selected references and criteria.
4. Score on the Nelson-Denny Reading Test.
5. Responses to the student interview with the admissions committee.

### Readmission

Readmission is not automatic. Students desiring readmission must notify the Dietetics Program in writing at least *one* semester (or two Summer sessions) in advance. Complete information regarding readmission can be obtained in the current Dietetics program *Student Guide and Expectations* available in the department.

### Degree Requirements

#### Bachelor of Science\*\*

Major in Dietetics — Total credit hours for graduation: 143

#### General Education Requirements to include:\*

6 hours Freshman English  
6 hours Literature  
6 hours foreign language  
3 hours computer literacy  
4 hours Kinesiology  
6 hours History  
6 hours Political Science  
3 hours MATH 1340 or higher

#### Science Support Courses:

CHEM 1401, 1402, 3401, 3403  
BIOL 2403, 2404, 3401

#### Interdisciplinary Support Courses:

COMM 1303 or 1313  
PHIL 1320 or 2330  
ECO 1301 or 2353  
SOC 1313 or 1323  
MANA 3361  
EDCI 4302

**Dietetic Core Course:**

DIET 2351

DIET 2352

HRP 2402

**Dietetic Professional Course (Enrollment Eligibility based on acceptance into the Dietetics Program)**

**First year (Junior)**

DIET 3452

DIET 3453

DIET 3354

DIET 3655

**Summer II prior to second year (Senior)**

DIET 3451

**Second year (Senior):**

DIET 4351

DIET 4652

DIET 4353

DIET 4254

DIET 4655

DIET 4456

DIET 4257

\* Please refer to the University College/General Education Requirements for specific courses that meet these requirements.

\*\* The minimum grade of "C" is required for CHEM 3403 and all DIET courses (lecture, labs and clinicals).

**Course Descriptions**

**Dietetics**

**DIET 2352 FOOD PREPARATION**

Fall, Spring

Application of scientific principles in food selection and preparation (conventional and microwave cooking). Consideration is given to the composition and properties of food, nutritional value, desirability standards, simple meal service and food economics. Three hours lecture and three hours laboratory per week.

**DIET 3451 GENERAL DIETETICS PRACTICUM I**

Summer II Prior to Senior Year

Introduction to the practice of all aspects of dietetics through weekly observation and experience in health care facilities and food institutions. Introduction to history, philosophy, organization and practice in the American Dietetic Association. 2 hours lecture and 6 hours clinical experience per week. *Prerequisite: Admission to the Coordinated Program in Dietetics.*

**DIET 3452 QUANTITY FOODS PRODUCTION**

Fall

Principles and methods of buying, preparing and serving foods for various types of quantity food facilities are considered. Standardization of recipes and cost controls. Use and care of institutional equipment. Safety and sanitation. 3 hours lecture and 6 hours clinical experience per week. *Prerequisites: HRP 2352, BIOL 3401 and admission to the Coordinated Program in Dietetics.*

**DIET 3453 ADVANCED NUTRITION**

Fall

Study of biological, physiological, sociological and environmental aspects of nutrition science. Includes an in-depth study of maternal and child nutrition. Controversial issues in nutrition are examined. Medical terminology is stressed. Clinical includes learning and practice of skills related to interviewing, dietary assessment, exchange lists, the problem-oriented medical record and case studies. 3 hours lecture and 3 hours clinical experience per week. *Prerequisites: CHEM 3403 or concurrent enrollment, HRP 2351, BIOL 2403 and admission to the Coordinated Program in Dietetics.*

**DIET 3354 FOOD SYSTEMS MANAGEMENT**

Spring

Organization and management of a food service system and basic operational subsystems (procurement, inventory, produc-



tion, distribution, sanitation and fiscal control). 3 hours lecture per week. *Prerequisite: DIET 3452, admission to the Coordinated Program in Dietetics.*

#### **DIET 3655 FOOD SYSTEMS MANAGEMENT PRACTICUM**

Spring

Selected problems and clinical experiences directly correlated to DIET 3354. 18 hours clinical experience per week. *Prerequisite: Admission to Coordinated Program in Dietetics, concurrent enrollment in DIET 3354.*

#### **DIET 4351 DIET AND DISEASE**

Fall

Pathophysiological effect of disease on humans and rationale for diet therapy. Development of ability to translate dietary prescription into meal plans that will satisfy nutritional, emotional and cultural needs of people. 3 hours lecture. *Prerequisites: DIET 3453, CHEM 3403, admission to the Coordinated Program in Dietetics.*

#### **DIET 4652 CLINICAL NUTRITION PRACTICUM**

Fall

An introduction to the role of the clinical dietitian in the health care environment. Selected problems and clinical experiences directly correlated to DIET 4351. 18 hours clinical experience per week. *Prerequisites: Senior status in Coordinated Program in Dietetics, concurrent enrollment in Diet 4351.*

#### **DIET 4353 EXPERIMENTAL FOODS**

Fall

Investigation of chemical, physical and nutritional properties of foods and additives during food preparation. Study of food modifications necessary for diet therapy; consideration of cultural preferences. 2 hours lecture and 3 hours laboratory experience per week. *Prerequisites: HRP 2352, CHEM 3401, admission to the Coordinated Program in Dietetics.*

#### **DIET 4655 COMMUNITY NUTRITION PRACTICUM**

Spring

Survey of major problems arising from food habits of population groups including the study of the Mexican-American culture. Techniques for teaching effective nutrition to groups. Clinical experience includes observation and participation with selected community agencies and schools. 2 hours lecture and 12 hours clinical experience per week. *Prerequisites: DIET 4351, SOC 1313, senior in Coordinated Program in Dietetics.*

#### **DIET 4254 FOOD SYSTEMS DESIGN**

Fall

Layout planning of a quantity food production system and its basic operational subsystems, including work flow, planning, selection and placement of equipment. 2 hours lecture per week. *Prerequisites: Senior status in Coordinated Program in Dietetics, DIET 3354 and DIET 3655.*

#### **DIET 4257 SEMINAR IN DIETETICS**

Spring

Introduction to interpretation and evaluation of nutrition literature. Study of planning techniques and instructional strategies essential for nutrition education. Students to present seminars focusing on trends and issues in professional dietetics to include management, clinical nutrition and community nutrition. 2 hours lecture per week. *Prerequisite: Senior status in Coordinated Program in Dietetics.*

#### **DIET 4456 GENERAL DIETETICS PRACTICUM II**

Spring

Integration of nutritional care and dietetic service into various systems of health-care, food systems management or clinical nutrition. Under close supervision, students will assume the role of the generalist dietitian. 32 hours clinical experience per week for four weeks. *Prerequisite: Senior status in Coordinated Program in Dietetics.*

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## **Rehabilitative Services Program**

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#### **Full-time Faculty**

Peterson, Glen (MS, University of Wisconsin-Stout, 1976), Lecturer.

Reed, Bruce J. (PhD, University of Northern Colorado, 1993), Certified Rehabilitation Counselor, Certified Vocational Evaluator, Assistant Professor.

Shefcik, Thomas (MS, Oklahoma State University, 1983), Certified Insurance Rehabilitation Specialist, Certified Rehabilitation Counselor, Program Coordinator/Assistant Professor.

Rehabilitation assists people with physically, mentally, emotionally or socially handicapping conditions to become or remain self-sufficient, productive citizens. Total rehabilitation includes physical, mental, economic, familial, social, environmental, personal and vocational goals in life as part of the comprehensive process that is rehabilitation. The objectives of rehabilitation may involve employment, transition services, medical/disability management, employee assistance, mental health/personal adjustment, environmental modification through technology and independent living.

The rehabilitation process generally involves three identifiable stages:

1. Medical;
2. Physical or technical aid and adjustive services;
3. Vocational, social and independent living.

The Rehabilitative Services Program at The University of Texas-Pan American focuses primarily on preparing students to assist individuals during the third phase of the process — vocational, social and independent living — although a basic understanding of the first two phases, and their interrelationships, is essential.

The rehabilitation specialist, working with individuals who have disabilities, determines and coordinates services for them throughout the rehabilitation process. The specialist may also work with individuals, professional employers and advocacy groups to address the social and environmental barriers that create obstacles for people with disabilities. The rehabilitation specialist is the primary professional who manages components important in the rehabilitation process and helps prevent fragmentation and gaps in services. A major goal for the rehabilitation specialist is to assist a person with a disability to move from a position of psychological and economic dependence to one of greater independence. The rehabilitation specialist believes and supports the concept that "It's ability, not disability, that counts."

The Rehabilitative Services Curriculum at The University of Texas-Pan American is designed to provide the student with a general understanding of human behavior in relation to the medical, psychological, social, economic, educational and vocational circumstances disability can generate in life. To help a person with a disability, rehabilitation draws on knowledge from several fields — psychology, medicine, psychiatry, sociology, social work, education, law and the world of work. A specific curriculum will address the competencies listed below.

1. Informational: knowledge of the content of rehabilitative services work including history, philosophy, legislation, theories, principles, terminology, developmental processes, culture;
2. Intellectual: creative thinking, problem-solving, decision-making, reasoning, analyzing, comparing and integrating information;
3. Interpersonal: relating to others, communication skills, working with and through others, giving and getting supervision;
4. Intrapersonal: values clarification, attitudes, motivations, personality style, reaction patterns, etc.;
5. Interventional: interviewing techniques, helping skills, ethics, evaluation, consulting, utilizing resources, case management.

This is a professional program designed to provide students with opportunities for community involvement through applied assignments. The program is complemented by an interviewing and evaluation laboratory, where students will practice applying classroom knowledge. Rehabilitation organizations and other community resources are utilized for field experiences. Within the other laboratories and programs of the School of Health Sciences, a student has the opportunity to examine various health and allied health professions, and to observe the importance of an interdisciplinary approach to the provision of rehabilitation services. A supervised practicum in a rehabilitation setting is required during the last semester of study.

This curriculum prepares the student to enter directly into the work force as a Rehabilitation Specialist or to pursue graduate studies in numerous fields (*i.e.*: Rehabilitation Counseling, Psychology, Mental Health Counseling, Social Work, etc.).

## **Degree Requirements (Bachelor of Science Degree)**

### **Major in Rehabilitative Services**

#### **General Education Requirements to include:**

6 hours of Spanish

At least 4 hours of Anatomy and Physiology

PSY 1313

ANTH 2323

COMM 1313

PHIL 1320 or 1330

### **Designated Electives (21 hours)**

COMM 1307	Fundamentals of Interpersonal Communication
PSY 1323	General Psychology
PSY 2301	Statistics for Behavioral Sciences
PSY 3325	Psychology of Adjustment
PSY 4313	Abnormal Psychology
COMM 3315	Communication in Human Relations OR
COMM 3316	Intercultural Communication
MANA 3361	Principles of Management and Organizational Behavior OR
MANA 3332	Human Relations in Management

### **Rehabilitative Services Concentration Courses (36 hours)**

REHS 2301	Introduction to Rehabilitation
REHS 2302	Employment and Disability
REHS 2331	Psychology of Disability (PSY 2331)
REHS 3330	Medical Aspects of Rehabilitation
REHS 3331	Reaction and Adjustment to Disability
REHS 4401	Vocational Evaluation
REHS 4402	Work Adjustment and Job Placement
REHS 4403	Rehabilitation Case Management
REHS 4330	Clinical Topics in Rehabilitation
REHS 4602	Clinical Practicum

### **Electives (10 hours)**

#### **Minor in Rehabilitative Services**

18 hours are required to earn a minor in Rehabilitative Services.

12 hours are specified (REHS 2301, 2302, 2331, 3330) and 6 hours are to be chosen from the remaining Rehabilitative Services concentration courses, except for REHS 4602.

### **Rehabilitative Services Program**

#### **Admission Requirements**

Admission to the Rehabilitative Services Program is competitive and based on the following criteria.

1. Completed application;
2. Two letters of recommendation (form letter available from department);
3. 2.5 GPA
4. A personal interview with Admissions Committee.

Admission dates may vary. Check with program coordinator for additional information. Paperwork should be submitted by March 15 of the student's sophomore year of study.

*Admission to program is not required for a minor or to take elective courses.*

### **Course Descriptions**

#### **Rehabilitative Services**

##### **REHS 2301 INTRODUCTION TO REHABILITATION**

Introduction to the field of rehabilitation and rehabilitation professions and specialties (*i.e.*, Rehabilitation Counseling, Vocational Evaluation, Work Adjustment, Job Placement). The course addresses theory and practice of rehabilitation as well as the history, philosophy and legislative basis for the programs and professions. Includes an overview of the needs of individuals with disabilities and the effects disabilities have upon personal, social and vocational adjustment. The independent living rehabilitation movement and the vocational rehabilitation process are discussed, along with the impact individuals with disabilities have upon the nation's economy. Community resources and agencies which provide services to people who have handicaps are explored. May include field trips, guest lectures and community-oriented assignments.

##### **REHS 2302 EMPLOYMENT AND DISABILITY**

Focuses on the implications of disability on employment. It is designed to offer the student the opportunity to assist the person who has a disability in making realistic and informed vocational decisions. The course explores facts and myths regarding the employment of disabled individuals, current legislation on the hiring of disabled individuals (AA/EEO guidelines), and the identification and utilization of occupational/vocational resources. The student will learn about such things as the world of work and work classification systems; why and how to conduct labor market surveys, job analyses and job modifications; and the identification and removal of architectural barriers.

### **REHS 2331 (PSY 2331) PSYCHOLOGY OF DISABILITY**

Provides a survey of psychological aspects of disability, with emphasis on physical disability. Includes an overview of research areas and findings. Describes major disability groups, and the general psychological processes that are observed in consumers and their families as they react and adjust to their disabilities.

### **REHS 3330 MEDICAL ASPECTS OF REHABILITATION**

Spring

Provides essential medical information to prepare students for working with disabled individuals, physicians and employers. Information on etiology, prognosis and treatment procedures and vocational and independent living implications will be covered for each disability group. Also included in the course is information on medical specialties, therapeutic services, restorative techniques and medical terminology. This course offers the student the opportunity to learn how to assess the total impact of the disability more perceptively and accurately, and to assist the consumer in making more realistic vocational/independent living plans. *Prerequisite: BIOL 2403 or 2404, REHS 2301, REHS 2302, and completion or concurrent enrollment in REHS 3331.*

### **REHS 3331 REACTION AND ADJUSTMENT TO DISABILITY**

Spring

A phenomenological look at how people with disabilities react to and are influenced by the world and how they live within the particular circumstances disability can generate. The course offers the opportunity to develop in the student a sensitive awareness of specific disabilities and the impact disability can have on one's personal, social, cultural and vocational adjustment. Rehabilitation interventions and strategies and their applications will be addressed, as well as ways of preventing disablement caused by behavioral or psychological processes and current research in the field. *Prerequisite: PSY 1313 or 1323, and REHS 2301 or consent of instructor.*

### **REHS 4401 VOCATIONAL EVALUATION**

Spring

Focus is on the assessment and appraisal of individuals involved in the rehabilitation process. It provides an orientation to vocational, psychometric and independent living assessment instruments and processes, along with modifications and adaptations necessary for use with persons who have various disabilities (*i.e.* visual, hearing, neuromuscular) and ethnic backgrounds, particularly the Spanish-speaking individual. It introduces the student to practical ways of exploring the physical, emotional and intellectual capacities of individuals, and the interpretation of this information for rehabilitation planning. Within the Rehabilitation Laboratory, the student is instructed in the administration and adaptation of specific vocational evaluation instruments. 3 hours lecture and 3 hours lab. *Prerequisite: PSY 2302, REHS 2301, REHS 2302, REHS 3330 and REHS 3331 or consent of instructor.*

### **REHS 4402 WORK ADJUSTMENT AND JOB PLACEMENT**

Fall

A study of work adjustment and job placement theories, approaches and techniques. Within a community rehabilitation setting, when possible, students utilize rehabilitation techniques in a case study approach, to develop placement plans with disabled individuals. The student will be required to carry out such placement activities as employer development, labor market surveys, job analyses, resume development, transferable skills analyses. Other topics include utilization of similar benefits, supported employment, on-the-job training, projects with industry, job coaching, job-seeking skills training and job development. 3 hours lecture, 3 hours lab. *Prerequisite: REHS 2301, REHS 2302, REHS 3330, and REHS 3331.*

### **REHS 4403 REHABILITATION CASE MANAGEMENT**

Fall

Focuses on interviewing, intervention, case recording and caseload management skills critical for case history development, program planning and goal accomplishment within the rehabilitation process, and applied through supervised laboratory experiences within the Rehabilitation Laboratory. Analysis of the Individualized Written Rehabilitation Plan and review of client case records will be treated with particular emphasis on those variables identified to be important to ethnicity and culture — specifically the Mexican American. Legal and ethical issues in service delivery will be addressed. 3 hours lecture, 3 hours lab. *Prerequisites: REHS 2301, REHS 2302, REHS 3330, REHS 3331 or consent of instructor.*

### **REHS 4330 CLINICAL TOPICS IN REHABILITATION**

This course will focus on priority clinical issues and provide concentrated study in specific areas in rehabilitative services which appear timely. The focus will be placed on independent projects, presentation of papers, and group discussion. A field-based clinical study project will be required. *Prerequisites: REHS 2331, REHS 3330, REHS 4401, REHS 4402 or concurrent enrollment.*

### **REHS 4602 CLINICAL PRACTICUM IN REHABILITATION**

Spring

Supervised, field-based clinical experience in a public or private setting serving the disabled. The practicum setting must

meet specific Program requirements and be approved by the University Practicum Supervisor. Weekly assignments will focus on daily components within the rehabilitation process, and will be treated in a weekly group session. 320 clock hours, 20 field hours weekly plus 2 hours of regularly scheduled group supervision per week. *Prerequisite: Completion of or concurrent enrollment in REHS 4330, and approval of Program Coordinator.*

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## Department of Art

*Richard P. Hyslin, Chair*

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### Full-time Faculty

Browne, Norman A. (EdD, Indiana University, 1968), Professor, Biological Illustration, Painting, Design, Elementary and Middle School Art Education, Drawing.

Field, Philip S. (MFA, Rhode Island School of Design, 1965), Associate Professor, Printmaking, Painting, Aesthetics.

Hyslin, Richard P. (MA, University of New Mexico, 1968), Associate Professor and Chair, Ceramics, Sculpture, Drawing.

Manuella, Frank R. (MS, Pratt Institute, 1982), Associate Professor, Advertising Art, Design.

Martin, Wilbert R. (MFA, Ohio State University, 1971), Assistant Professor, Printmaking, Photography, and Drawing.

Moyer, Nancy J. (PhD, Southern Illinois University, 1970), Professor, Drawing, Metal/Jewelry Design, Art Education.

Nichols, Edward E. (MFA, University of Kansas, 1959), Associate Professor, Drawing, Painting and Watercolor.

Swenson, Sandra (MA, University of Northern Colorado, 1964), Assistant Professor, History of Western Art, Pre-Columbian Art.

The Department of Art includes courses in advertising art, art education, art history, ceramics, jewelry, painting, drawing, printmaking, sculpture and biological illustration.

A major and a minor in art are available. The Bachelor of Arts Degree is offered in Art (All-level Option I). The Bachelor of Fine Arts Degree is offered in Studio Art and Secondary Art Education. Specializations in Advertising Art and Biological Illustration are available.

After graduation, an undergraduate who chooses the studio major may continue his or her studies in graduate school or work as an artist. The art major will be afforded the opportunity to gain the knowledge to be certified to teach art in the secondary or elementary schools. The Bachelor of Fine Arts (BFA) major with specialization in advertising art may freelance or work for an advertising agency. Art courses also are offered for students seeking certification in a second teaching field at the elementary or secondary levels.

Although all art majors are required to take courses in drawing, design and art history, studio courses and education courses are chosen in compliance with the student's interest and goals.

### Degree Requirements

#### BA in Art

48 semester hours in art, of which 24 semester hours must be advanced; including ART 1311, 1331, 2303, 2312, 2321 or 2322, 2351, 2352, and 2371; 12 hours advanced art, ART 3381, 3382, 3383, 4383; 3 additional hours in advanced art history, and 9 advanced semester hours in studio courses.

#### Major in Art

*(BFA, Studio)*

67 semester hours in art, of which 37 semester hours must be advanced; including ART 1311, 1312, 1331, 2312, 2332, 2351, and 2352; 9 semester hours from ART 2321 or 2322, 2341, 2361, 2303, and 2371; 12 semester hours of advanced studio; 12 semester hours from Art History; 12 semester hours of advanced art electives; ART 4193.

*(BFA, Studio — 18-hour Specialization in Advertising Design)*

61 semester hours in art, of which 31 semester hours must be advanced; including ART 1311, 1331, 1332, 2312, 2321 or 2322, 2331, 2332, 2334, 2351 and 2352, 3331, 3333, 4333, 4334, 4391 and 4392; 6 semester hours of advanced art history and 6 hours of advanced art electives; ART 4193.

14 semester hours in communications are required, of which 7 semester hours must be advanced, including COMM 1408, 2404, 4321 and 4417.

**(BFA, Studio — 15-hour Specialization in Biological Illustration)**

61 hours of Studio Art, of which 31 semester hours must be advanced including ART 1311, 1331, 1332, 2312, 2321 or 2332, 2351, 2352, 3331, 3332, 4333, 4334; 6 advanced hours of Art History; 12 semester hours of Biological Illustration as offered in ART 4311 - Advanced Drawing; ART 4391 will be taken for a minimum of 3 hours as Biological Illustration. Additionally 19 or 20 hours of Biological Sciences would be required and chosen as follows: 8 hours of the general lower-division natural science general education requirements to come from either Biology 1401 and 1402 (General Biology) or 2403 and 2404 (Anatomy and Physiology).

The remaining 11 or 12 hours to come from the following: 4 hours from Biology 2401 (Vertebrate Zoology) or 3414 (Invertebrate Zoology); 4 hours Biology 3408 (Plant Morphology); 3 or 4 hours, depending on course chosen from the following: Biology 4303, 4304, 4309, 4402, 4410, 4412, 4415. Any substitution for the chosen Biology course must be approved by the Art Department.

**Majors with Teaching Certification**

**(BFA, Secondary Certification Option III)**

58 semester hours in art, of which 25 semester hours must be advanced, including ART 1311, 1331, 2312, 2332, 2351 and 2352; ART 2303, 2321 or 2322, 2341, 2361, 2371; 3383, 4383; 6 semester hours of advanced studio; and 6 semester hours of advanced art history, 6 semester hours of advanced art electives; ART 4193; 18 semester hours in education are required, including EDCI 4301, 4302, 4307, 4308, 4641.

**(BA, All-level Certification)**

48 semester hours in art, of which 24 semester hours must be advanced; including ART 1311, 1331, 2303, 2312, 2321, or 2322, 2351, 2352, and 2371; ART 3381, 3382, 3383, 4383; 3 additional hours in advanced art history, and 9 advanced semester hours in studio courses; 18 hours in education are required, including EDCI 4301, 4302, 4307, 4308, 4699.

**Minor in Art**

18 semester hours in art, of which 9 semester hours must be advanced, including ART 1311, 1331, 2332, 4353, and 6 semester hours of advanced art history or studio.

**Specialization for Elementary Certification in Art**

Elementary Certification Option I: 15 semester hours in Art, of which 6 semester hours must be advanced; must include Art 1311, 1331, 2332 or 2371, 3381 or 3382, 4311 or 3321.

Elementary Certification Option II: 24 semester hours in Art, of which 12 semester hours must be advanced; must include Art 1311, 1331, 2332 or 2371, 3381, 3382, 4353 or 3352 and 4311 or 3321.

Secondary Certification Option II: 24 semester hours in Art, of which 12 semester hours must be advanced; must include Art 1311, 1331, 2371 or 2332, Art 2352, 3383, 4383, 3321, and 3 advanced semester hours from 3361, 3371, 4311, 3321.

**Departmental Requirements**

**Transfers:** Students wishing to transfer into Art at the junior level or above must submit a portfolio of their work and meet with the Art faculty for program planning.

**Majors:** Students majoring in Art are required to have an interview with the Art faculty at the end of their junior year.

**Exhibitions:** Senior Art majors are required to exhibit examples of their work during their senior year. BFA studio majors will be included in a 1- or 2-person show during their senior year. A grade of "C" or better in Art 4193, as determined by a faculty studio panel, is required for the B.F.A. degree.

The letter grade "C" will be the minimum prerequisite grade for continuing Studio courses in sequence.

**Course Descriptions**

**ART 1301 ART APPRECIATION**

(Texas Common Course Number is ARTS 1301.)

Fall, Spring, Summer

Values and meanings in the visual arts. This is a general art lecture course concentrating on development and differences in artistic style.

**ART 1311 DRAWING I**

(Texas Common Course Number is ARTS 1316.)

Fall, Spring, Summer

Introduction to drawing, including work in a variety of drawing media. Basic concepts are explored. A minimum of 3 hours of outside assignments per week is required. *\$4 laboratory fee.*

**ART 1312 DRAWING II**

(Texas Common Course Number is ARTS 1317.)

Spring

Continuation of ART 1311 with problems in illumination, foreshortening, perspective and chiaroscuro as expressive concepts. A minimum of 3 hours of outside assignments per week is required. *Prerequisite: ART 1311. \$4 laboratory fee.*

**ART 1331 DESIGN I**

(Texas Common Course Number is ARTS 1311.)

Fall, Spring

Principles of design and development of design structures on two-dimensional surfaces. A minimum of 3 hours of outside assignments per week is required. *\$4 laboratory fee.*

**ART 1332 LETTERING**

Fall, Spring

Introduction to lettering for reproduction. Basic serif, sans serif and formal script typefaces are practiced and studied. Emphasis is placed upon built-up letters, as used for signage and contemporary printing reproduction. A minimum of 3 hours of outside assignments per week is required. *\$4 laboratory fee.*

**ART 1387 ART APPRECIATION, HONORS PLAN**

Values and meaning in the visual arts. A general art lecture course concentrating on development and differences in artistic style with exposure to media and technology unique to various art forms. *Prerequisite: Admission to Honors Program or by permission.* Credit may be received in only one of ART 1301 or 1387.

**ART 2303 JEWELRY/METALWORKING I**

(Texas Common Course Number is ARTS 2341.)

Fall, Spring

Instruction is given in the use of hand tools, metals handling and creative use of shop equipment. Emphasis is on creative artistic expression focusing on jewelry as a portable art form. Other materials are considered. A minimum of 3 hours of outside assignments per week is required. *\$4 laboratory fee.*

**ART 2304 JEWELRY/METALWORKING II**

(Texas Common Course Number is ARTS 2342.)

Fall, Spring

The continuance of portable art includes techniques such as stone setting, plastics, fabrication and casting. A minimum of 3 hours of outside assignments per week is required. *Prerequisite: ART 2303. \$4 laboratory fee.*

**ART 2312 DRAWING III**

(Texas Common Course Number is ARTS 2323.)

Spring and on demand

The human figure as expressive subject matter in drawing. A minimum of 3 hours of outside assignments per week is required. *Prerequisite: ART 1311. \$4 laboratory fee.*

**ART 2321 PAINTING I**

(Texas Common Course Number is ARTS 2316.)

Fall, Spring, Summer

Introduction to water painting media involving individual development and invention. A minimum of 3 hours of outside assignments per week is required. *Prerequisites: ART 1311, 1331. \$4 laboratory fee.*

**ART 2322 PAINTING II**

(Texas Common Course Number is ARTS 2317.)

Spring and On Demand

An introduction to oil and/or acrylic painting techniques working from nature and the living model. Observation and interpretation are stressed. A minimum of 3 hours of outside assignments per week is required. *Prerequisite: ART 1331. \$4 laboratory fee.*

### **ART 2331 ILLUSTRATION**

Spring

Introduction to creative illustration for mass duplication. This course emphasizes individual solutions to illustration problems on a broad scale. Development of concept, content and execution is stressed. A minimum of 3 hours of outside assignments per week is required. *Prerequisite: ART 1311, 1331, 2312. \$4 laboratory fee.*

### **ART 2332 DESIGN II**

(Texas Common Course Number is ARTS 1312.)

Spring and on demand

Three-dimensional design includes investigation into the phenomena existing in the three-dimensional arts. A variety of materials handling and creative methods for the purposes of creating a three-dimensional form are considered. A minimum of 3 hours of outside assignments per week is required. *Prerequisite: ART 1331. \$4 laboratory fee.*

### **ART 2334 PHOTOGRAPHY AS AN ART FORM**

(Texas Common Course Number is ARTS 2356.)

On Demand

Introduction to photography as a means of personal expression. The history of photography as an art form is included. Emphasis is on black and white processes. Students must furnish their own cameras. A minimum of 3 hours of outside assignments per week is required. *Prerequisite: ART 1331. \$4 laboratory fee.*

### **ART 2341 SCULPTURE I**

(Texas Common Course Number is ARTS 2326.)

Fall

Introductory course in sculptural concepts through basic sculptural media. A minimum of 3 hours of outside assignments per week is required. *Prerequisite: ART 2332. \$4 laboratory fee.*

### **ART 2342 SCULPTURE II**

(Texas Common Course Number is ARTS 2327.)

Fall

Continuation of ART 2341 with emphasis on individual development. A minimum of 3 hours of outside assignments per week is required. *Prerequisite: ART 2341. \$4 laboratory fee.*

### **ART 2351 ART SURVEY I**

(Texas Common Course Number is ARTS 1303.)

Fall

Historical survey of art from Paleolithic through the Middle Ages.

### **ART 2352 ART SURVEY II**

(Texas Common Course Number is ARTS 1304.)

Spring

Historical survey of art from the Renaissance through modern times.

### **ART 2361 PRINTMAKING I**

(Texas Common Course Number is ARTS 2333.)

Fall, Spring

Introduction to printmaking with concentration on intaglio processes. A minimum of 3 hours of outside assignments per week is required. *Prerequisites: ART 1311, 1331. \$4 laboratory fee.*

### **ART 2362 PRINTMAKING II**

(Texas Common Course Number is ARTS 2334.)

Fall, Spring

Introduction to color with continuation of intaglio and relief printing systems. A minimum of 3 hours of outside assignments per week is required. *Prerequisite: ART 2361. \$4 laboratory fee.*

### **ART 2371 CERAMICS I**

(Texas Common Course Number is ARTS 2346.)

Fall, Spring

Introduction to ceramic design concentrating on handbuilding. Some work with potter's wheel, glazing and firing. A minimum of 3 hours of outside assignments per week is required. *\$4 laboratory fee.*



**ART 2373 CERAMICS II**

(Texas Common Course Number is ARTS 2347.)

Fall, Spring

Emphasis on basic wheel-thrown shapes and introduction to glaze calculation. A minimum of 3 hours of outside assignments per week is required. *Prerequisite: ART 2371. \$4 laboratory fee.*

**ART 3303 JEWELRY/METALWORKING III**

Fall, Spring

Introduction of techniques in silversmithing such as raising, fabricating, smithing and casting. These are pursued in the production of expressive holloware. Additional materials are considered. A minimum of 3 hours of outside assignments per week is required. (May be repeated for a total of 12 hours' credit.) *Prerequisite: ART 2304. \$4 laboratory fee.*

**ART 3304 JEWELRY/METALWORKING IV**

Fall, Spring

Continued exploration of metalsmithing techniques, die forming, electroforming and machining. A minimum of 3 hours of outside assignments per week is required. *Prerequisite: ART 3303. \$4 laboratory fee.*

**ART 3321 ADVANCED PAINTING**

Fall, Spring

Advanced studio problems in painting. (May be repeated for a total of 12 hours' credit.) A minimum of 3 hours of outside assignments per week is required. *Prerequisite: ART 1331 and 1331. \$4 laboratory fee.*

**ART 3331 VISUAL COMMUNICATIONS I**

Fall

The translation of verbal language into visual language through a variety of media. A minimum of 3 hours of outside assignments per week is required. *Prerequisite: ART 3333. \$4 laboratory fee.*

**ART 3333 DESIGN AND PRODUCTION**

Fall

Introduction to graphic design and production. This course offers the opportunity to develop the awareness of graphic images and teaches the tools and techniques of preparing camera-ready duplication. A minimum of 3 hours of outside assignments per week is required. *Prerequisites: ART 1331, 1332. \$4 laboratory fee.*

**ART 3341 ADVANCED SCULPTURE**

Fall

Advanced studio problems in sculpture. (May be repeated for a total of 12 hours' credit.) A minimum of 3 hours of outside assignments per week is required. *Prerequisite: ART 2342. \$4 laboratory fee.*

**ART 3351 MEDIEVAL AND RENAISSANCE ART**

Alternate years

Art history beginning with the Christian era after the fall of Rome through the Byzantine, Romanesque, Gothic, Renaissance, Baroque and Rococo styles. *Prerequisites: ART 2351 and 2352.*

**ART 3352 CONTEMPORARY ART**

Alternate years

Art history from the 19th century in Europe until modern times. Development and growth of today's arts and aesthetics. *Prerequisites: ART 2351 and 2352.*

**ART 3353 ART OF THE ANCIENT WORLD**

Alternate years

An in-depth historical study of art styles from 5000 B.C. to 325 A.D. *Prerequisites: ART 2351 and 2352.*

**ART 3361 ADVANCED PRINTMAKING**

Fall, Spring

Advanced studio problems in printmaking. (May be repeated for a total of 12 hours' credit.) A minimum of 3 hours of outside assignments per week is required. *Prerequisite: ART 2362. \$4 laboratory fee.*

**ART 3371 ADVANCED CERAMICS**

Fall, Spring

Advanced studio problems in ceramics. (May be repeated for a total of 12 hours' credit.) A minimum of 3 hours of outside assignments per week is required. *Prerequisite: ART 2373. \$4 laboratory fee.*

**ART 3381 PERCEPTION AND EXPRESSION IN ART I**

Fall, Spring, Summer

A course designed to strengthen visual perception and divergent thinking through visual and conceptual stimuli with primary emphasis on studio activities. *Prerequisite: Junior standing.*

**ART 3382 PERCEPTION AND EXPRESSION IN ART II**

Spring and On Demand

Emphasis on further studio development in depth. *Prerequisite: ART 3381 or permission of instructor*

**ART 3383 FUNDAMENTALS OF CREATIVE AND CRITICAL THINKING**

Fall

The course offers discussion and exercises in synectics, brainstorming and analytical thinking. A topology of creative behavior development is presented along with spatial exercises. Mini-workshops dealing with studio areas not regularly taught at this campus are offered. This may include serigraphy, fiber, textiles, photography and collograph. *Prerequisites: Junior standing; prerequisite for student teaching.*

**ART 4193 SENIOR EXHIBIT**

Fall, Spring

A one- or two-person studio show. *Prerequisite: Senior standing*

**ART 4301 PHILOSOPHIES OF ART**

On Demand

A study of the relationship of art to philosophy. A study of the various theories of art and of the philosophical presuppositions regarding being, knowledge and value inherent in these theories.

**ART 4311 ADVANCED DRAWING**

On Demand

Topics covered include biological illustration, pastel portraiture, advanced figure drawing and other advanced drawing problems. (May be repeated for a total of 12 hours' credit.) A minimum of 3 hours of outside assignments per week is required. *Prerequisite: Consent of instructor. \$4 laboratory fee.*

**ART 4333 GRAPHIC DESIGN I**

Spring

A systematic approach to design problem-solving, with a series of studio assignments and critiques relating directly to two- and three-dimensional graphic design. The course offers the opportunity to develop creative and technical ability by the production of professional assignments. A minimum of 3 hours of outside assignments per week is required.

*Prerequisite: ART 3333. \$4 laboratory fee.*

**ART 4334 GRAPHIC DESIGN II**

Fall

A series of advanced problems and intensive critiques relating to graphic design to condition students to think in terms of "client-designer" relationships in simulated working conditions. Assignments criticized by professional standards will ideally result in portfolio pieces. A minimum of 3 hours of outside assignments per week is required. *Prerequisite: Art 4333. \$4 laboratory fee.*

**ART 4335 COMPUTER GRAPHICS**

Fall, Spring

A study of the basic technology necessary for the use of the graphic computer for processing visual elements. Students will produce hands-on computer graphics in an interactive creative environment. A minimum of 3 hours of outside assignments per week is required. *Prerequisite: ART1331. \$4 laboratory fee.*

**ART 4351 LATIN AMERICAN ART: PRE-CONQUEST**

Fall

An in depth historical study of the arts of Mexico, Central and South America prior to the Spanish Conquest.

**ART 4352 LATIN AMERICAN ART: POST-CONQUEST**

Spring

Mexican art under the Spanish influence is discussed from the Colonial period to the present.

### **ART 4353 AMERICAN ART**

Fall and On Demand

History of the visual arts in the United States, 17th century to the present, including the art of the American Indian.

*Prerequisites: ART 2351 and 2352.*

### **ART 4383 CAREER ASPECTS OF THE VISUAL ARTS**

Spring

This course offers information about earning a living in the studio art field. Preparation of contracts regarding gallery agreements, studio administration and the acceptance of terms of sale for art goods are explained. Procedure involved in gallery exhibitions, teaching institutions and private businesses are discussed, along with wholesaling vs. retaining art work, and tax laws relating to artists. *Prerequisite: Junior standing.*

### **ART 4391 INDIVIDUAL PROBLEMS/INTERNSHIP/CO-OP**

Fall, Spring, Summer

Advanced problems in an art area of the student's choice and/or internship with an art professional in the field of interest.

(May be repeated for a total of 12 hours of credit.) *Prerequisite: ART 1332, 3333 (for Internship/Co-Op); all courses in the area of choice.*

### **ART 4392 INDIVIDUAL PROBLEMS**

Fall, Spring, Summer

Advanced problems in the area of student's choice. *Prerequisite: ART 4391.*

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## **Astronomy**

See Department of Physics and Geology

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## **Department of Biology**

*Dr. Robert I. Lonard, Chair*

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### **Full-time Faculty**

Allison, Terry C. (PhD, Texas A&M University, 1967), Professor, Parasitology, Marine Zoology.

Brush, Timothy (PhD, Rutgers University, 1985), Assistant Professor, Zoology.

de la Peña, Antonio M. (MS, Texas A&I University, 1969), Assistant Professor, Physiology, Curriculum Development.

Edwards, Robert J. (PhD, University of Texas at Austin, 1980), Professor, Ichthyology, Ecology, Population Biology.

Egle, Ardath L. (MS, University of Texas-Pan American, 1988), Lecturer, Anatomy and Physiology, Vertebrate Biology.

Farooqui, Mohammed Y. H. (PhD, University of Illinois, 1979), Associate Professor, Physiology, Toxicology, Entomology, Cell Biology.

Gunn, Scott J. (PhD, Texas A&M University, 1986), Assistant Professor, Genetics, Vertebrate Zoology.

Henry, Brad (PhD, Texas A&M University, 1989), Assistant Professor, Aquatic Entomology, Ecology.

Judd, Frank W. (PhD, Texas Tech University, 1973), Professor, Ecology, Ecological Physiology, Herpetology, Mammalogy.

Lonard, Robert I. (PhD, Texas A&M University, 1970), Professor and Chair, Plant Taxonomy, Grass Systematics.

Ortega, Jacobo (PhD, University of Minnesota, 1960), Professor, Plant Pathology, Mycology.

Savage, Norman L. (PhD, University of Oklahoma, 1966), Professor, General and Medical Microbiology.

Sides, Sammie L. (PhD, North Carolina State University, 1972), Professor, Plant Anatomy, Phycology.

Wedig, Cindy M. (PhD, University of Illinois, 1987), Lecturer, Dairy Science, Nutritional Biochemistry.

The Department offers a major and a minor in Biology. Biology students may elect a curriculum for a major in Biology or a Biology elementary or secondary teaching plan.

(Students are expected to furnish their own transportation for laboratory sessions and field work.)

The Department of Biology also offers study beyond the Bachelor's Degree leading to a Master of Science in

Biology. A limited number of Teaching Assistantships are usually available. Interested persons should consult the Graduate portion of the catalog or the Chair of the Biology Department.

## Degree Requirements

### Major in Biology

30 semester hours in Biology, of which 15 semester hours must be advanced: must include Biology 1401, 1402, 4100, and at least 3 semester hours from each of the following areas: Cellular Biology or Microbiology 3401, 3412; Genetics or Evolutionary Biology 2306, 3413; Developmental or Morphological Biology 2401, 2402, 3405, 3407, 3408; Organismal or Environmental Biology 2305, 3403, 3409, 3414, 4303, 4304, 4309, 4314, 4402, 4406, 4407, 4408, 4410, 4412, 4414, 4415, 4416; Physiology 2403, 2404, 3411, 4305, 4311.

Additional requirements include 6 semester hours of Mathematics 1340 and 2330 or 6 semester hours from 1340, 1356, 1360, 1370, 2330; Chemistry 1401, 1402, and 3401; and 3 semester hours of undergraduate statistics. Physics or Geology 1401 and 1402 are recommended.

Biology majors who are pre-dental or pre-medical students should include Biology 2402 in their major, should minor in Chemistry and should include in their programs: Chemistry 3401, 3403, 3404; Physics 1401, 1402; Psychology 1313; and Calculus I (MATH 1360) required for the University of Texas Medical Schools. (MATH 1360 not required for admission to Baylor College of Medicine or to dental schools.) Pre-medical, Dental and Optometry students who have completed a minimum of 90 semester hours and the general education requirements at UT Pan American may apply for the BS degree after completion of two years in an accredited college of medicine, dentistry or optometry, with grades acceptable for transfer to UT Pan American. The hours accepted will be credited toward the major and minor in Biology or Chemistry.

### Major in Biology with Teacher Certification:

36 semester hours in Biology, of which 21 semester hours must be advanced; must include Biology 1401, 1402, 4100 and one course from each of the following areas: Cellular Biology or Microbiology 3401, 3412; Genetics or Evolutionary Biology 2306, 3413; Vertebrate Morphology or Physiology 2401, 2402, 2403, 2404, 3411; Environmental Biology 2305, 3409, 4402, 4410; Advanced Zoology 3414, 4407, 4412, 4414, 3405, 3407, 4303, 4304; Advanced Botany 3403, 3408, 4305, 4309, 4314, 4406, 4408.

### Minor in Biology

18 semester hours in Biology, of which 6 semester hours must be advanced.

### Teacher Certification in Biology:

*Elementary Plan II:* 20 semester hours, at least 9 of which are advanced to include: Biology 1401 and 1402; one course from Biology 2305, 2306, 2401, 2402, 2403; Biology 3414, 4314 or 3408; Biology 3409; plus additional advanced hours to complete requirements.

*Secondary Plan II:* 24 semester hours, at least 12 of which are advanced to include: Biology 1401 and 1402; one course from Biology 2305, 2306, 2401, 2402, 2403; Biology 3414, 4314 or 3408; Biology 3409; plus additional advanced hours to complete requirements.

## The Department of Biology Graduate Program

The Department of Biology offers courses leading to a Master of Science in Biology and providing minor and support areas for degrees in other fields.

Undergraduate requirements for a minor or specialization area: 12 semester hours of Biology, 6 hours of which must be advanced.

Credit for a 5000 level course is not given to a student with previous undergraduate credit in a similar course. Only 15 hours of 5000 level courses may count toward a graduate degree.

Students pursuing a Master's degree in related fields can include 12 to 18 hours of work in Biology for a minor.

Students pursuing the Master of Science degree with a major in Biology can include 6 to 9 hours of work in an approved minor or support area.

### Requirements by the Department of Biology

1. Acceptance by the Graduate School of The University of Texas-Pan American.
2. Admission to the graduate program with a major in Biology requires a minimum of 24 hours of undergraduate Biology with at least 12 hours at the advanced level. As undergraduate preparation, each student should have completed 3 to 4 hours in each of the following categories: Evolution or Genetics, Cell Biology or General Microbiology, Organismal or Environment Biology, and Mammalian or Plant Physiology. Entering graduate students who have deficiencies in one or more areas must remove them the first time that the course(s) is offered.

3. Full-time graduate students, who must meet the above requirements, may take up to 9 semester hours of leveling work while taking a limited number of graduate hours. (Refer to Item 5.)
4. A minimum grade point average of 2.75 in upper level undergraduate Biology courses (based upon a 4.0 system) is required.
5. Special requirements:
  - a. Biology 6365
  - b. Biology 6305
  - c. 3 hours of Biology 6101
6. For those enrolled in the thesis program:
  - a. Graduate students selecting the thesis option must complete 30 semester hours with a thesis. The choice of courses will be determined through consultation between the student and his/her graduate adviser and have the approval of the Chair of the Department.
  - b. During the first semester of study following admission to graduate study, the student should choose from the Graduate Faculty a major professor who will serve as chairman of his/her Graduate Committee and two other faculty members chosen in conference with the major professor and the Chair of the Department. This Committee will approve a plan of study for the student which must be approved by, and a copy filed with, the Department Chair and the Dean of the School. The major professor and student should each retain a copy.
  - c. A thesis topic and plan for research will be chosen by the student and his/her major professor, subject to approval by the Committee.
  - d. The research will culminate in a thesis written in the style approved by the Graduate Committee and should be worthy of submission, in whole or in part, for publication in a reputable journal. Approval must be affirmed by the Chair of the Department and the Dean of the School.
  - e. Following acceptance of the thesis, evidenced by the signatures of the committee members and by the administrators indicated above, four copies should be presented for binding, and a fee to cover the cost of binding should be paid to The University of Texas-Pan American. The four bound copies will be distributed as follows: the first (original) and second copy in the library, the third copy with the Department of Biology and the fourth copy with the student.
7. A non-thesis student must complete 27 or 30 hours of Biological Sciences and may include in his/her program a maximum of 6 to 9 hours in a related field for a total of 36 hours.

Students choose a member of the Graduate Faculty as a major professor. In conference, the student, the major professor and the Chair of the Department will choose two other members of the Graduate Faculty to form a committee of three to plan the student's program, oversee progress and supervise the required comprehensive examination.

**Master of Science Degree — Thesis**

(30 hour minimum)

*Required Courses*

(15 hours)

BIOL 6101

(3 hours)

BIOL 6105 Biometry

(3 hours)

BIOL 6365 Graduate Biological Research Problems

(3 hours)

BIOL 7300 Thesis

(3 hours)

BIOL 7301 Thesis

(3 hours)

*Electives*

(15 hours)

BIOL 5304 Advanced Ichthyology

BIOL 5307 Host-Parasite Relationships

BIOL 5309 Advanced Herpetology

BIOL 5311 Advanced Ecological Physiology

BIOL 5312 Advanced Ornithology

BIOL 5314 Advanced Plant Systematics

BIOL 5315 Advanced Entomology

BIOL 5316 Advanced Toxicology

BIOL 5344 Advanced Mammalogy

BIOL 5345 Advanced Plant Physiology

BIOL 5408 Advanced Plant Pathology

BIOL 5410 Marine Plant Science

BIOL 5446 Advanced Mycology

BIOL 5452 Advanced Marine Zoology

BIOL 6302 Special Topics in Biology-Marine Ecology

BIOL 6303 Advanced Ecology

BIOL 6308 Special Topics in Biology-Freshwater Phycology

BIOL 6309 Special Topics in Biology-Marine Phycology  
 BIOL 6310 Special Topics in Biology-Immunology  
 BIOL 6313 Advanced Cell Biology & Physiology  
 BIOL 6316 Advanced Genetics  
 BIOL 6319 Scientism

**Master of Science Degree — Non-Thesis** (36 hours minimum)

Required courses: (9 hours)  
 BIOL 6101 Biology Graduate Seminar (3 hours)

BIOL 6305 Biometry (3 hours)  
 BIOL 6365 Graduate Biological Research Problems (3 hours)

*Electives in major areas:* (18-21 hours)

BIOL 5304 Advanced Ichthyology  
 BIOL 5344 Advanced Mammalogy  
 BIOL 5307 Host-Parasite Relationships  
 BIOL 5309 Advanced Herpetology  
 BIOL 5408 Advanced Plant Pathology  
 BIOL 5410 Marine Plant Science  
 BIOL 5311 Advanced Ecological Physiology  
 BIOL 5312 Advanced Ornithology  
 BIOL 5314 Advanced Plant Systematics  
 BIOL 5315 Advanced Entomology  
 BIOL 5316 Advanced Toxicology  
 BIOL 5445 Advanced Plant Physiology  
 BIOL 5446 Advanced Mycology  
 BIOL 5452 Advanced Marine Zoology  
 BIOL 6302 Special Topics in Biology-Marine Ecology  
 BIOL 6303 Advanced Ecology  
 BIOL 6304 Systematic Zoology  
 BIOL 6308 Special Topics in Biology—Freshwater Phycology  
 BIOL 6309 Special Topics in Biology—Marine Phycology  
 BIOL 6310 Special Topics in Biology—Immunology  
 BIOL 6313 Advanced Cell Biology and Physiology  
 BIOL 6316 Advanced Genetics  
 BIOL 6319 Scientism  
 Approved minor or support area (6-9 hours)

## Course Descriptions

### Biology

#### BIOL 1401 GENERAL BIOLOGY

(Texas Common Course Number is BIOL 1411.)

A study of the basic principles of Biology. Topics will include biological chemistry, cell structure and function, photosynthesis and respiration, DNA structure and function, mitosis, meiosis, Mendelian genetics, evolution and the structure and function of bacteria, viruses, protozoan, algae, fungi and plants. 3 hours lecture and 3 hours laboratory. \$3 laboratory fee.

#### BIOL 1402 GENERAL BIOLOGY

(Texas Common Course Number is BIOL 2401.)

A continuation of Biology 1401. Topics include evolution and diversity of invertebrate and vertebrate animals; mechanisms of support and movement, digestion and nutrition, respiration, circulation homeostasis, hormonal control, nervous control, sexual reproduction, development, behavior and ecology. 3 hours lecture and 3 hours laboratory. *Prerequisite: BIOL 1401.* \$3 laboratory fee.

#### BIOL 1487 HONORS BIOLOGY

An accelerated study of the basic principles of Biology. Topics covered include cellular biology, photosynthesis, respiration, protein synthesis, cellular reproduction, genetics, microbial genetics and a survey of the diversity of organisms. Open to students enrolled in the Honors Program or by permission of the instructor. \$3 laboratory fee.

**BIOL 1488 HONORS BIOLOGY**

An accelerated study of the basic concepts of Biology. Topics covered include reproduction and development, digestion and nutrition, transport, homeostasis, the nervous system, ecology and evolution. Open to students enrolled in the Honors Program or by permission of the instructor. \$3 laboratory fee.

**BIOL 2305 ENVIRONMENTAL BIOLOGY**

A consideration of the biological problems of population expansion, environmental destruction and resource conservation as they relate to man's past, present and future. 3 hours lecture and 3 hours laboratory. \$3 laboratory fee.

**BIOL 2306 BIOLOGICAL EVOLUTION**

Genetic, ecological and paleontological aspects of evolution, including that of man. 3 hours lecture. *Prerequisite: BIOL 1401-1402 or permission of the instructor.*

**BIOL 2401 VERTEBRATE ZOOLOGY**

A basic introductory course dealing with the fundamental biological principles and concepts. Designed to acquaint the student with structure, physiology and life histories of representative vertebrate types. 3 hours lecture and 3 hours laboratory. *Prerequisite: BIOL 1401. \$4 laboratory fee.*

**BIOL 2402 COMPARATIVE VERTEBRATE ANATOMY**

(Texas Common Course Number is BIOL 2428.)

Comparative studies of the morphological, embryological and physiological relationships among vertebrates, with inclusion of histological and paleontological data. 3 hours lecture and 3 hours laboratory. *Prerequisite: Consent of instructor. \$5 laboratory fee.*

**BIOL 2403 ANATOMY AND PHYSIOLOGY**

(Texas Common Course Number is BIOL 2401.)

A study of the structure and function of the human body includes cells, tissues, and organs of the following systems: Integumentary, skeletal, muscular, nervous system and special senses. 3 hours lecture and 3 hours laboratory. *Prerequisite: Consent of instructor. \$4 laboratory fee.*

**BIOL 2404 ANATOMY AND PHYSIOLOGY**

(Texas Common Course Number is 2402.)

A continuation of BIOL 2403 includes endocrine, circulatory, respiratory, digestive, urinary and reproductive systems. Other topics include metabolism, acid-base balance, development and heredity. 3 hours lecture and 3 hours laboratory. *Prerequisite: BIOL 2403. \$4 laboratory fee.*

**BIOL 2408 A SURVEY OF LIFE**

A one-semester survey course designed to introduce the basic biologic concepts in the following areas: the chemistry of life, cell structure, function and reproduction, the kingdoms of life, interactions within ecosystems and basic anatomy and physiology of the major systems of the human body. 3 hours lecture and 3 hours lab per week. Will not count toward a major or minor in Biology. *Prerequisite: Must have taken PSCI 1421 and 1422. \$4 laboratory fee.*

**BIOL 3401 GENERAL MICROBIOLOGY**

A general survey of the field of microbiology with emphasis on bacteria. Topics will include structure, growth, reproduction, metabolism, genetics, and taxonomy of bacteria; a general survey of fungi, algae, protozoa and viruses and microbiology of soil, water, foods and industry. Laboratory work will include staining, growing, biochemistry, characterization and control of bacteria with a general survey of other microorganisms. *Prerequisites: BIOL 1401 and 1402; CHEM 1401 and 1402. \$4 laboratory fee.*

**BIOL 3403 MEDICAL MICROBIOLOGY AND IMMUNOLOGY**

A study of microorganisms that cause disease and immune response of the host to these pathogens. Emphasis will be on principles of immunology and selected infectious disease processes. Laboratory exercises will include a study of basic serologic procedures and cultural characteristics of related pathogenic microorganisms. 3 hours lecture and 3 hours lab. *Prerequisite: BIOL 3401. \$4 laboratory fee.*

**BIOL 3405 HISTOLOGY**

Lectures in this offering will place major emphasis on the structure and function of major tissue types and their cellular components. The laboratory will provide an opportunity for first-hand experience in examining the microscopic structure of the major tissue types and their relationships in organ structure. 3 hours lecture and 3 hours laboratory. *Prerequisites: 12 semester hours of Biology including 4 hours from 2401, 2402 or 2403. \$4 laboratory fee.*

**BIOL 3407 COMPARATIVE EMBRYOLOGY**

Developmental studies from the zygote through embryological stages (chiefly concerned with amphibians, birds and mammals). 3 hours lecture and 3 hours laboratory. BIOL 3413 recommended. *Prerequisites: 9 semester hours of Biology, including four hours from 2401, 2402 or 2403. \$4 laboratory fee.*

**BIOL 3408 PLANT MORPHOLOGY**

A study of the morphology, development and relationships of fungi, algae, liverworts, mosses, ferns, gymnosperms and angiosperms. Particular attention is given to the evolution of these groups. 3 hours lecture and 3 hours laboratory. *Prerequisites: 9 semester hours of biology, including BIOL 1402. \$4 laboratory fee.*

**BIOL 3409 ECOLOGY**

A study of the basic environmental factors affecting plants and animals, and their relation to economic and conservation problems. 3 hours lecture and 3 hours laboratory and field work. *Prerequisite: 12 semester hours of Biology. \$4 laboratory fee.*

**BIOL 3411 MAMMALIAN PHYSIOLOGY**

A survey of the physiological mechanisms of the organs and organ systems of mammals with emphasis on man. The laboratory will provide experiences with modern techniques. Topics will include muscle, nerve, digestive, urinary, respiratory, circulatory and reproductive systems. 3 hours lecture and 3 hours lab. *Prerequisites: 12 semester hours of Biology including 4 hours from 2401, 2402 or 2403 and 6 hours chemistry. \$5 laboratory fee.*

**BIOL 3412 CELL BIOLOGY**

A study of cell structure and function with emphasis on bio-energetics, membranes, genes and genetic control, cell division and its regulation, and cellular differentiation. 3 hours lecture and 3 hours lab. (Formerly BIOL 4403; may not be repeated for credit.) *Prerequisites: Biol 1401 and 1402; one semester of organic chemistry. \$4 laboratory fee.*

**BIOL 3413 GENETICS**

Introductory lectures and laboratories in classical genetics. Topics will include Mendelian genetics, cell mechanics, sex determination, sex linkage, DNA structure and function, genetic linkage, crossing over, gene mapping, mutation, regulation of gene expression, chromosomal variations, population genetics and evolution. *Prerequisites: BIOL 1401 and 1402, CHEM 1401 and 1402. \$5 laboratory fee.*

**BIOL 3414 INVERTEBRATE ZOOLOGY**

Study of the comparative morphology, evolution, systematics and natural history of the invertebrates. Recommended as a preparatory course for BIOL 4402, 4407, 4415, and 5316. *Prerequisite: 6 to 8 hours of Biology. At least junior standing. \$4 laboratory fee.*

**BIOL 4100 BIOLOGY SEMINAR**

A study of current biological literature and the discussion of research in progress. Required of all Biology majors in their senior year; open only to non-majors by permission.

**BIOL 4201 BIOLOGY PROBLEMS**

A course adapted to the study of special topics in Biology. For advanced students capable of developing a problem independently through conference and activities directed by the instructor. Problem is chosen by the student with the approval of the instructor prior to registration. The class meets each week equivalent to 1 hour lecture and 2 hours laboratory. *Prerequisite: Major in Biology with at least junior standing. \$4 laboratory fee.*

**BIOL 4202 BIOLOGY PROBLEMS**

A continuation of Biology 4201. *Prerequisite: BIOL 4201. \$4 laboratory fee.*

**BIOL 4303 MAMMALOLOGY**

A study of anatomy, evolution, distribution, systematics, ecology and physiology of mammals of North America, with special emphasis on local forms. 2 hours lecture and 3 hours laboratory. *Prerequisite: 9 semester hours of Biology. \$4 laboratory fee.*

**BIOL 4304 ICHTHYOLOGY**

A study of ecology, distribution, adaptations, physiology, systematics and evolution of freshwater and marine fishes, with an emphasis on local forms. Laboratories will stress identification and other practical applications of modern ichthyological techniques. 2 hours lecture and 3 hours laboratory. *Prerequisite: 9 semester hours of Biology. \$4 laboratory fee.*

**BIOL 4305 PLANT PHYSIOLOGY**

An introduction of the basic principles of the physiology, growth and development of plants. 3 hours lecture and 3 hours laboratory. *Prerequisites: 6 semester hours of Biology. \$5 laboratory fee.*



**BIOL 4309 HERPETOLOGY**

A study of the anatomy, evolution, distribution, systematics, ecology and physiology of amphibians and reptiles; primarily of North American species, with special emphasis on local forms. 2 hours lecture and 3 hours laboratory. *Prerequisites: 8 hours of introductory biology (1400 level) and BIOL 2401 or 2402. \$4 laboratory fee.*

**BIOL 4311 ECOLOGICAL PHYSIOLOGY**

A comparative study of the physiological adaptations of vertebrate animals to their environments. Emphasis is placed on the physiological basis of animal distribution and evolution. *Prerequisite: 12 semester hours of Biology including BIOL 2401 or 2402. \$4 laboratory fee.*

**BIOL 4314 PLANT TAXONOMY**

Identification of vascular plants, with emphasis on native flowering plants. 2 hours lecture and 3 hours laboratory. (Formerly BIOL 3309; may not be repeated for credit.) *Prerequisites: 9 semester hours of Biology, including BIOL 1402. \$4 laboratory fee.*

**BIOL 4402 MARINE ZOOLOGY**

A study of the common marine animals, especially invertebrates in coastal waters. Particular attention is given to structural and physiological relationships. 3 hours lecture and 3 hours laboratory and field work. *Prerequisite: 9 semester hours of Biology; BIOL 3414 recommended. At least junior standing. \$4 laboratory fee.*

**BIOL 4406 MYCOLOGY**

Morphology, physiology, taxonomy and culture of selected fungi. Emphasis will be given to those having economic significance. 3 hours lecture and 3 hours laboratory. *Prerequisite: 6 hours of Biology. \$4 laboratory fee.*

**BIOL 4407 ANIMAL PARASITOLOGY**

Introduction to study of parasitic protozoa and worms (especially trematodes, cestodes, nematodes and acanthocephala). 3 hours lecture and 3 hours laboratory. (Formerly Biol 3402, may not be repeated for credit.) *Prerequisite: 9 semester hours of Biology including four hours from 2401, 2402, 2403, 2407 or 3414. At least junior standing. \$4 laboratory fee.*

**BIOL 4408 PLANT PATHOLOGY**

An introductory course on the causes, nature and control of plant diseases. Emphasis will be given to diseases of plants of economic importance. 3 hours lecture and 3 hours laboratory. *Prerequisite: 6 hours of Biology. \$4 laboratory fee.*

**BIOL 4410 MARINE BOTANY**

A study of the common local marine flora with emphasis on macroscopic algae, seagrasses and terrestrial angiosperms. Three hours lecture and three hours laboratory. Students are expected to furnish their own transportation to field laboratory sessions at South Padre Island. *Prerequisites: 9 semester hours of Biology, including BIOL 1402. \$4 laboratory fee.*

**BIOL 4412 ORNITHOLOGY**

Principles of avian classification, morphology and ecology, including migration, distribution and relationships to man. Three hours lecture and three hours laboratory and field work. (Formerly BIOL 3404; may not be repeated for credit.) *Prerequisites: 9 semester hours Biology, including four hours from 2401, 2402, or 2403. \$4 laboratory fee.*

**BIOL 4414 FRESHWATER MACROINVERTEBRATES**

A study of the systematics, evolution, and ecology of freshwater insects, crustaceans, and mollusks. Emphasis will be on local aquatic habitats. Laboratories will consist of field trips and identification of specimen. 3 hours lecture and 3 hours laboratory. *Prerequisite: 9 hours of Biology. \$4 laboratory fee.*

**BIOL 4415 ENTOMOLOGY**

An introduction to the study of insects and other arthropods of agricultural, medical and veterinary importance. Includes basic insect morphology, physiology, classification and pest management. Laboratory consists of insect identification supported by field trips. 3 hours lecture and 3 hours laboratory. *Prerequisite: BIOL 3414. \$5 laboratory fee.*

**BIOL 4416 ENVIRONMENTAL TOXICOLOGY**

A survey of interaction of environmental pollutants with living systems. Laboratory consists of toxicological evaluation of selected environmental chemicals. 3 hours lecture and 3 hours laboratory. *Prerequisite: BIOL 3412 and 6 hours of organic chemistry or biochemistry. \$5 laboratory fee.*

**BIOL 5304 ADVANCED ICHTHYOLOGY**

A study of ecology, distribution, adaptations, physiology, systematics and evolution of freshwater and marine fishes, with an emphasis on local forms. Laboratories will stress identification and other practical applications of modern ichthyological techniques. 2 hours lecture and 3 hours laboratory. *\$4 laboratory fee.*

**BIOL 5307 HOST-PARASITE RELATIONSHIPS**

A comprehensive analysis of the interrelationships between host and parasite. Modern laboratory techniques essential to understanding these interrelationships will be considered. 3 hours lecture and 3 hours laboratory. (Formerly BIOL 6304; may not be repeated for credit.) Credit cannot be given if BIOL 3402 or 4407 has been taken. *Prerequisite: Must have Graduate standing in Biology. \$4 laboratory fee.*

**BIOL 5309 ADVANCED HERPETOLOGY**

A study of the anatomy, evolution, distribution, systematics, ecology and physiology of amphibians and reptiles; primarily of North American species with special emphasis on local forms. 2 hours lecture and 3 hours laboratory. *Prerequisites: 8 hours of introductory biology (1400 level) and BIOL 2401 or 2402. Graduate standing in Biology. \$4 laboratory fee.*

**BIOL 5311 ADVANCED ECOLOGICAL PHYSIOLOGY**

A comparative study of the physiological adaptations of animals to their environments. Emphasis will be placed on physiological basis of animal distribution and evolution. *\$4 laboratory fee. (Formerly BIOL 6311, may not be repeated for credit.) Must have graduate standing in Biology.*

**BIOL 5312 ADVANCED ORNITHOLOGY**

Studies in avian biology with emphasis on concepts of speciation, behavior, and ecology. 3 hours lecture and 3 hours laboratory. (Formerly BIOL 6312, may not be repeated for credit.) *Must have graduate standing in Biology. \$4 laboratory fee.*

**BIOL 5314 ADVANCED PLANT SYSTEMATICS**

A study of literature and methods of experimental plant systematics, phylogenetic considerations, procedures in monograph preparation, field and herbarium techniques and modern biosystematic approaches applied to selected taxa will be emphasized. (Formerly BIOL 6314, may not be repeated for credit.) *Must have graduate standing in Biology. \$4 laboratory fee.*

**BIOL 5315 ADVANCED ENTOMOLOGY**

An advanced treatment of the science of entomology. Includes applied aspects of insect morphology, physiology, classification and pest management. Laboratory consists of insect identification supported by field trips. 3 hours lecture and 3 hours laboratory. *Prerequisite: Biology 3414. \$5 laboratory fee.*

**BIOL 5316 ADVANCED TOXICOLOGY**

An advanced treatment of physiological and systematic interactions of environmental pollutants with biological systems. Laboratory consists of toxicological evaluations of selected chemicals. 3 hours lecture and 3 hours laboratory. *Prerequisite: BIOL 3412 and 6 hours of organic chemistry or biochemistry. \$5 laboratory fee.*

**BIOL 5344 ADVANCED MAMMALOLOGY**

A study of anatomy, evolution, distribution, systematics, ecology and physiology of mammals of North America. A research project is required. Critical review of current literature and studies of recent advances in Mammalogy are emphasized. *Graduate standing in Biology. \$4 laboratory fee.*

**BIOL 5345 ADVANCED PLANT PHYSIOLOGY**

Physiology of plants; cell structure and function, nutrition, metabolism, and factors influencing growth and development. *Prerequisite: Graduate standing. \$5 laboratory fee.*

**BIOL 5408 ADVANCED PLANT PATHOLOGY**

The causes, nature and control of plant diseases. Principles of plant disease development. 3 hours lecture and 3 hours of laboratory. *Prerequisite: Graduate standing in Biology. \$4 laboratory fee.*

**BIOL 5410 MARINE PLANT SCIENCE**

The common local marine flora with emphasis on the macroscopic algal forms and terrestrial angiosperms. 3 hours lecture and 3 hours laboratory. *Graduate standing in Biology. \$4 laboratory fee.*

**BIOL 5446 ADVANCED MYCOLOGY**

Detailed studies of the fungi, including biological aspects of selected genera, culturing techniques and laboratory methods. Not open to students with previous credit for BIOL 4406. *Prerequisite: Graduate standing in Biology. \$4 laboratory fee.*

**BIOL 5452 ADVANCED MARINE ZOOLOGY**

Structural, physiological and ecological relationships of common marine animals, stressing invertebrates of coastal waters. 3 hours lecture and 3 hours laboratory. BIOL 3414 recommended. *Graduate standing in Biology. Credit cannot be given if Biology 4402 has been taken. \$4 laboratory fee.*

**BIOL 6101 BIOLOGY GRADUATE SEMINAR**

All graduate students will be required to enroll for credit in Biology Graduate Seminar three separate semesters. All Biology graduate students are strongly encouraged to attend seminar each semester they are enrolled in graduate school. Each student, when enrolled for credit will, with the approval of the seminar director, select some particular aspect of current biological research and present a scholarly review of it before seminar participants, other graduate students and the Biology faculty.

**BIOL 6302 SPECIAL TOPICS IN BIOLOGY — MARINE ECOLOGY**

A study of current topics in Biology, may be repeated for credit as topics change. *Prerequisite: Graduate status. \$4 laboratory fee.*

**BIOL 6303 ADVANCED ECOLOGY**

Utilization of modern techniques to analyze interrelationships between plants, animals and the environment. Terrestrial and freshwater environments will be considered. 3 hours lecture and 3 hours laboratory. *Graduate standing. \$4 laboratory fee.*

**BIOL 6304 SYSTEMATIC ZOOLOGY**

Theory and methods of taxonomy, classification, phylogeny, and biogeography as applied to animals. 3 hours lecture. *Prerequisite: Graduate standing in Biology. \$4 laboratory fee.*

**BIOL 6305 BIOMETRY**

Statistical analysis and principles as applied to biological problems. 3 hours lecture and 3 hours laboratory. *Recommended: undergraduate statistics course. \$4 laboratory fee.*

**BIOL 6308 SPECIAL TOPICS IN BIOLOGY — FRESHWATER PHYCOLOGY**

A study of current topics in Biology, may be repeated for credit as topics change. *Prerequisite: Consent of Instructor. \$4 laboratory fee.*

**BIOL 6309 SPECIAL TOPICS IN BIOLOGY — MARINE PHYCOLOGY**

A study of current topics in Biology, may be repeated for credit as topics change. *Prerequisite: Consent of Instructor. \$4 laboratory fee.*

**BIOL 6310 SPECIAL TOPICS IN BIOLOGY — IMMUNOLOGY**

A study of current topics in Biology, may be repeated for credit as topics change. *Prerequisite: Consent of Instructor. \$4 laboratory fee.*

**BIOL 6313 ADVANCED CELL BIOLOGY AND PHYSIOLOGY**

Detailed lecture and laboratory analysis of typical cellular structure and dynamics with emphasis on the anatomical and physiological mechanisms underlying the functioning of selected specialized cells. 2 hours lecture and 3 hours laboratory. *Prerequisite: BIOL 3412. \$4 laboratory fee.*

**BIOL 6316 MOLECULAR GENETICS**

Lectures dealing with the modern concepts of genetics with emphasis on molecular level investigations of DNA, gene structure, transcription, translation, and regulation as elucidated through gene cloning, recombinant DNA technology, and biochemical genetics. *Recommended: BIOL 3413 and organic chemistry or biochemistry. Prerequisite: Graduate standing in Biology. \$5 laboratory fee.*

**BIOL 6319 SCIENTISM**

A study of the characteristics of science and the relationship between modern science and culture. A student interactive course investigating how science actually proceeds, how it should ideally be carried out, the motivations and roles of the individuals involved, and their interaction with society as a whole. *Prerequisite: Graduate standing.*

**BIOL 6365 GRADUATE BIOLOGICAL RESEARCH PROBLEMS**

The student in conference with a member of the graduate faculty will define an independent research problem. The subject of the research may be in the area of botany, microbiology or zoology. The student's committee or the Department Chair, if the student has not yet formed a committee, will approve the problem prior to enrollment. If undertaken in summer, the student should enroll in no other course that summer term. The student's report will be written in an approved thesis style. One copy will be retained by the faculty member directing the research and one copy will be placed in the student's file in the departmental office. A maximum of 3 credit hours undertaken in graduate biological research problems will count toward a Master of Science degree in Biology. *\$4 laboratory fee.*

**BIOL 7300 THESIS****BIOL 7301 THESIS**

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## **Business Administration, Master's Degree (MBA)**

***Dr. Vern Vincent, Director***

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### **Graduate Faculty**

Atamian, Rubik (PhD, University of Texas at Austin, 1984), Assistant Professor, Accounting.  
Degnan, Theodore (PhD, University of South Carolina, 1983), Associate Professor, Accounting  
de los Santos, Gilberto (PhD, University of Texas at Austin, 1972), Professor, Marketing.  
De Merville, Wig (PhD, Texas Tech University, 1978), Professor, Accounting  
Ellard, Charles J. (PhD, University of Houston, 1974), Professor Economics .  
Ganguli, Gouranga (PhD, University of Mississippi, 1983), Professor, Accounting.  
Greene, Walter E. (PhD, University of Arkansas, 1976), Professor, Management.  
Hwang, Mark (PhD, University of North Texas, 1990), Assistant Professor, Management Information Systems.  
Lee, Daniel (PhD, University of Florida, 1977), Professor, Management Information Systems.  
Maberly, Edwin (PhD, Texas A&M University, 1978), Professor, Finance.  
Minor, Michael, (PhD, Vanderbilt University, 1987), Associate Professor, Marketing, International Business.  
Nasif, Ercan, PhD, North Texas State University, 1988), Assistant Professor, Management.  
Prock, Jerry D. (DBA, University of Arizona, 1970), Professor, Finance.  
Sturges, David L. (PhD, University of North Texas, 1988), Associate Professor, Communications.  
Taube, Paul M. (PhD, State University of New York, 1986), Associate Professor, Economic.  
Thorn, Ronald G. (PhD, Texas Tech University, 1973), Associate Professor, Information Systems, Quantitative Methods.  
Vincent, Vern C. (PhD, University of Northern Colorado, 1972), Professor, Quantitative Methods.

### **Graduate Program**

#### **Purpose**

The graduate studies program of the School of Business Administration provides for advanced study leading to the Master of Business Administration Degree. The program is designed for those who desire to pursue advanced study as a means of enhancing their business and administrative careers. Specifically, the program is designed to aid in meeting the career needs of those:

1. in business, industry, and government;
2. in the service industries as well as those seeking careers in these industries;
3. who are just starting their business careers or who plan to continue their study leading to the Doctor of Philosophy or Doctor of Business Administration Degree;
4. who wish to broaden their knowledge to become more effective as teachers of business subjects.

#### **Scope**

The MBA degree is a broad-based, highly structured program designed to give the student exposure to management and analytical decision-making skills necessary to function in a changing business environment. The UT Pan American MBA program is for those individuals who have a bachelor's degree in either a business or non-business discipline; however, MBA prerequisite courses need to be completed prior to enrolling in the graduate program. The graduate program requires a minimum of 33 semester hours of graduate study and generally is completed within two academic years of study.

A student may enter the program at the beginning of either semester or summer session provided all admission criteria are satisfactorily completed. The MBA courses are scheduled to start in the early evening hours or weekends to accommodate the large number of students with full-time jobs.

#### **Admission to the MBA Program**

In order to be admitted to the MBA program, the student must first meet all requirements for admission to the Graduate School of The University of Texas-Pan American, as well as MBA requirements specified below. Application for admission to the University must be made to the Office of Admissions and Records, The University of Texas-Pan American, Edinburg, Texas 78539.

All students applying for admission to the MBA program are required to provide the Director of Graduate Studies in the School of Business Administration the following:

1. A Graduate Management Admission Test (GMAT) which must be provided before a student is allowed to enroll in the MBA program;
2. Graduate Record Examination (GRE), if necessary (see University Graduate Admission requirements);

3. Official transcripts; and
4. If necessary, catalog(s) for evaluation of transcript(s).

### **Student Classification and Admission Criteria for the MBA Program**

The student should note that classification and admission criteria to the MBA program are different than that for admission to the University's graduate school.

1. **Special Student Admission** — student with an undergraduate or graduate degree from a regionally accredited institution recognized by the Council on Postsecondary Accreditation (COPA) but lacking one or more of the following:
  - a. Official Transcripts of all undergraduate and graduate work
  - b. MBA prerequisite courses
  - c. GMAT score (minimum acceptable score 350); (A GMAT prep course is offered every fall and spring semester to assist in preparing students for the examination.)
  - d. Graduate Record Exam (GRE) score,(required only if overall grade point average is less than 3.0 (4.0 system) or GMAT score is less than 470.

Students with a special student admission classification will *not* be permitted to enroll in the MBA program and take graduate courses.

2. **Graduate Student Admission Classification** — students who in addition to meeting the Special Student admission criteria must be evaluated for admission to the MBA program according to one of the following admission categories:

#### **Unconditional Admission to MBA Program**

Students should have 1000 points or more based on the following formula: 200 times their Grade Point Average (4.00 system) + GMAT score. Grade point average is calculated on the last 60 hours of undergraduate coursework. The number of semester hours on which the grade point average is calculated varies slightly depending on the number of hours taken during the semester that produced a minimum of 60 semester hours. The minimum acceptable GMAT score for entrance in the MBA program is a score that corresponds to the 20th percentile.

#### **Conditional Admission**

A limited number of students who do not satisfy the Unconditional Admission requirements to the MBA program but who have been granted clear admission by the University Admissions Office can be considered for conditional admission status in the MBA program provided they meet one of the following:

*Priority No. 1:* Satisfying the Unconditional Admission formula based on unofficial documents, *i.e.*, outdated or unofficial GMAT score or unofficial transcripts.

*Priority No. 2:* A grade-point average of 3.0 on MBA foundation courses of which at least 24 semester hours are taken from an AACSB-accredited undergraduate program.

*Priority No. 3:* Admission points totaling 950 points based on the formula: 200 X Overall GPA for undergraduate coursework + GMAT score.

*Priority No. 4:* Supporting documentation of potential success through letters of recommendation based on relevant work and leadership experience.

The number of Conditional Admission-classified students cannot exceed 20 percent of the number of newly admitted students per semester. Students enrolled under the Conditional Admission classification can enroll in no more than 6 graduate hours.

Conditional Admission status must be removed at the end of the semester in which a student is initially enrolled by providing all required official documentation and earning at least a 3.0 graduate grade-point average on 6 hours of graduate coursework.

#### **Denied Admission**

A student is denied admission to graduate study in the School of Business Administration for failure to meet the above admission criteria. Denied Admission status can only be changed by improving test scores or undergraduate grade point average.

#### **Tentative Admission**

The University's Tentative Admission category does not apply to students interested in graduate study in the School of Business Administration. Students classified under Tentative Admission in other degree programs will not be allowed to enroll in graduate level courses in the School of Business Administration.

#### **Special Graduate Students**

Students who already have a graduate degree in business and are interested in taking additional graduate business courses for professional improvement purposes are permitted to enroll in graduate business courses. Graduates from non-AACSB accredited MBA programs will be required to meet the unconditional admission criteria.

## Admission of Foreign Students

Foreign students whose native language is not English will be expected to take the Test of English as a Foreign Language (TOEFL). Students scoring below 580 on the TOEFL will be denied admission, while those scoring between 580 and 600, but otherwise meeting MBA admission requirements, will be expected to take prescribed courses in English.

## Graduate Assistants

The School of Business Administration at UT Pan American employs graduate assistants to serve in the capacity of teaching assistants, research assistants, or graduate interns depending upon the needs and budget of the school. Normally, the term of appointment is on a semester by semester basis with renewal based on successful academic and graduate assistant performance. Full-time graduate assistants are required to devote approximately 18 hours per week per semester to their assignment while maintaining an enrollment in a minimum of 6 semester hours of graduate coursework or 9 semester hours of undergraduate coursework leading to the completion of the MBA degree. Full-time graduate assistants are expected to devote their time and services solely to their graduate studies and graduate assistantship assignment. Graduate assistants employed during a summer session are expected to enroll in at least one 3-hour graduate course or 6 hours of undergraduate coursework leading to the MBA degree. Reappointment of a graduate assistant shall be limited to a maximum of three years.

Only those applicants having *Clear Admission* status to the University Graduate School and *Unconditional Admission* status to the MBA program in the School of Business Administration shall be considered for selection as a graduate assistant. Graduate students placed on academic probation or suspension are ineligible to serve as graduate assistants.

## MBA Degree Requirements

The number of semester hours required for an MBA degree will vary depending upon a student's prior academic coursework and how the student elects to fulfill the MBA foundation course requirements.

In addition to fulfilling general requirements for a master's degree specified by The University of Texas-Pan American Graduate School, candidates for the MBA will be required to successfully complete the MBA foundation courses plus 30 semester hours of graduate courses of which 24 semester hours are required core courses.

## MBA Foundation Courses

	<i>Undergraduate Semester Hours</i>	<i>Graduate Semester Hours</i>
GENB 3337 Business Law	3	
MANA 3361 Principles of Management	3	
MARK 3371 Principles of Marketing	3	
FINA 3383 Managerial Finance	3	
GENB 3330 International Business	3	
ACC 6301 Accounting Foundations or ACC 2421 Introduction to Financial Accounting and ACC 2329 Fundamentals of Managerial Accounting	7	3
ECO 6301 Economic Foundations or ECO 2353 Principles of Economics, I and ECO 2354 Principles of Economics, II	6	3
MANA 6303 Statistical Foundations or MANA 2341 Elementary Business and Economic Statistics and MANA 3342 (Intermediate Business & Economic Statistics	6	3
GENB 6310 Business Research Foundations		3

*Foundation coursework semester hours:* minimum 27 hours; maximum 37 hours. MBA prerequisites must be completed prior to admission as a graduate student in the MBA program unless granted approval from the Director of Graduate Studies in the School of Business Administration.

*Additionally, students must provide evidence of proficiency in the following areas:*

**Mathematics:** Successful completion of a differential calculus course is required. Students lacking this course proficiency will be required to complete Math 1322.

**Computer Literacy:** Students are required to be knowledgeable about computer terminology and applications. Students without this background must enroll in CIS 1301.

Degree applicability of coursework from business programs which are not accredited by the American Assembly of Collegiate Schools of Business (AACSB) must be determined through appropriate validation procedures and/or examination. Final approval of non-AACSB accredited coursework will be by the Graduate Studies Director or Dean of the Business School.

## MBA Core Courses

A graduate student must meet all graduate admission criteria prior to enrollment in any graduate course, either the foundation coursework or coursework in the MBA program.

<i>MBA Core Courses</i>	<i>Semester Hours</i>
ACC 6320 Financial and Managerial Accounting	3
MANA 6330 Management Theory & Organizational Behavior	3
FINA 6340 Financial Administration	3
ECO 6350 Managerial Economics	3
MANA 6360 Operations Management	3
MARK 6370 Marketing Policy and Management	3
MIS 6380 Computer Decision Support Systems	3
GENB 6390 Administrative Policy and Strategy	3
Subtotal	24
Graduate Electives	6
TOTAL	30

Total MBA semester hours: minimum 57 hours; maximum 67 hours.

The student will select the remaining 6 semester hours from approved graduate offerings of the University. Six hours may be taken from offerings outside the School of Business Administration with the approval of the Director of Graduate Studies. However, 3 of the 6 hours must be in 6000 or 7000 level courses. A student may elect to write a thesis in lieu of the 6 hours of graduate elective course work. Each MBA candidate, regardless of the option selected, must successfully pass a written comprehensive examination over the MBA core curriculum.

### Comprehensive Written Examination

Each candidate for the Masters of Business Administration (MBA) degree is required to satisfactorily pass a comprehensive written examination. The purpose of the examination is to evaluate the ability of the student to articulate the application and integration of the MBA core courses through a comprehensive written examination. In order for a student to be eligible to take the examination, the student must be in good standing in accordance with the Three "C" Rule.

### Three "C" Rule

A master's candidate is ineligible to continue in the program or to take the comprehensive written examination whenever a grade of "C" or lower is received in three or more of the following core courses, even if the course is repeated and an "A" or "B" grade is attained:

1. Financial and Managerial Accounting
2. Management Theory and Organizational Behavior
3. Financial Administration
4. Managerial Economics
5. Operations Management
6. Marketing Policy and Management
7. Decision Support Systems

If the possibility exists that a student could have three "C" grades in core courses based on a combination of previously earned "C" grades, current enrollment or future required core courses, then the student will be denied permission to take the comprehensive written examination until such time core course grades are determined.

## MBA Degree Program

### Recommended Schedule

#### *1st Term—Fall*

GENB 6310 Business Research Foundations  
ACC 6320 Financial and Managerial Accounting  
MANA 6330 Management Theory and Organizational Behavior

#### *2nd Term—Spring*

FINA 6340 Financial Administration  
ECO 6350 Managerial Economics  
MANA 6360 Operations Management

#### *3rd Term—Fall*

MARK 6370 Marketing Policy and Management

MIS 6380 Decision Support Systems  
Graduate Business Elective

4th Term— Spring

GENB 6390 Administrative Policy and Strategy  
Graduate Business Elective  
Graduate Business Elective

## Course Descriptions

### MBA Graduate Foundation Courses

#### ACC 6301 PRINCIPLES OF ACCOUNTING

An intensive examination of financial and managerial accounting theory and procedures and their application in the generation of data for integrated financial and managerial accounting information systems. Topics include an overview of the accounting cycle, analysis of financial statements, income determination and inventory valuation cost allocation, and interpretation of financial information for managerial decision-making and control purposes. *Prerequisite: Admission to the MBA Program.*

#### ECO 6301 PRINCIPLES OF ECONOMICS

An introduction to basic economic concepts and methods. The competitive market system, problems in resource allocation and economic efficiency, government regulation and the public sector, money and banking, unemployment and inflation in economic policy-making and internal economics. *Prerequisite: Admission to the MBA Program.*

#### MANA 6303 STATISTICAL FOUNDATIONS

An introduction to statistical methodology to include: probability concepts, inference techniques, analysis of variance, regression analysis, chi square, and other non-parametric analyses. This course focuses on the use of the computer in performing statistical analysis. *Prerequisite: Admission to the MBA Program.*

#### GENB 6310 BUSINESS RESEARCH FOUNDATIONS

Fall

Business research techniques and methodologies. Topics include scientific method, business information sources, research proposal development and evaluation, research design, scaling and instrument design, sampling design, statistical packages and applications, research reporting and writing, and ethical considerations in business research. *Prerequisite: Admission to the MBA Program.*

### MBA Core Courses

#### ACC 6320 FINANCIAL AND MANAGERIAL ACCOUNTING

Fall

A study of the principles, conventions and concepts underlying internal and external reporting of accounting information by business organization, and the application of these principles in evaluation, interpretation and utilization of accounting data for managerial decisions. *Prerequisite: ACC 2322 or 2339, FINA 3383.*

#### MANA 6330 MANAGEMENT THEORY AND ORGANIZATIONAL BEHAVIOR

Fall

An analysis of formal organizational theory and the interrelationship of individuals in organizations. A study of the organization as a system of authority, status, leadership, direction, culture, ethics, communication and influence, includes readings, cases and special reports. *Prerequisite: MANA 3361.*

#### MIS 6380 DECISION SUPPORT SYSTEMS

The purpose of this course is to study how computers can be used to enhance the decision-making process in organizations and current implementation of decision support systems in U.S. business. Students studying decision support systems will be exposed to models, databases, expert systems, fourth generation languages, data communication, and organizational management. The main emphasis of this course is to increase the productivity of the decision makers with the assistance of computers.

#### FINA 6340 FINANCIAL ADMINISTRATION

Spring

Management of the flow of funds in the firm. Analysis for obtaining the optimum utilization of funds, behavior of financial institutions and markets. *Prerequisites: FINA 3383.*



**ECO 6350 MANAGERIAL ECONOMICS**

Spring

The application of economic analysis to management in the business firm. Considers demand analysis, production costs, pricing policies and investment planning. Extensive use is made of case problem analysis. *Prerequisite: ECO 2353, 2354.*

**MANA 6360 OPERATIONS MANAGEMENT**

Spring

This course focuses on the role of the production function in business systems and the study of production system operations. Emphasis is placed on production system design, integration of system inputs, outputs, and transformations, and computer applications to decision processes utilized in managing operations and achieving optimal production. *Prerequisite: MATH 1322 or the equivalent.*

**MARK 6370 MARKETING POLICY AND MANAGEMENT**

Fall

A study of marketing policy and decision-making based upon a consumer orientation; innovation and creative adaptation to change; cultural implication of marketing action; and the role of theory in marketing. *Prerequisite: MARK 3371.*

**GENB 6390 ADMINISTRATIVE POLICY AND STRATEGY**

Spring

A study of management problems under dynamic conditions, including culture and ethics. Comprehensive, integrative cases will be studied and analyzed. Decision making and involvement in the management process could be provided through a computerized management simulation. *Prerequisite: 15 semester hours of MBA core courses.*

**MBA Elective Courses****GENB 6111 ORAL COMMUNICATION SKILLS**

Course focuses on developing skill in presenting information orally for the purpose of persuading, informing, or making recommendations resulting from problem-solving, fact-finding or other decision-making tasks. Included will be introduction to the use of audio-visuals to support presentation effectiveness and efficiency.

**GENB 6112 WRITTEN COMMUNICATION SKILLS**

Course focuses on developing skill in presenting information in written form through position papers, reports (recommendations), memos, and letters as required in managerial situations.

**GENB 6113 SOCIAL SKILLS FOR MANAGERS**

Course focuses on communication skills needed by managers to interact with colleagues, clients, subordinates and superiors in business and social settings. Included are discussions and practical sessions to apply developing skills in tact, diplomacy, conversation, and questioning. Students are expected to plan, execute and conduct business social activity such as a luncheon with a speaker, a reception, or an awards dinner.

**GENB 6114 INTERNATIONAL COMMERCIAL LAW**

Course serves as an introduction to resources available to students and managers to guide them through the intricacies of cross-border legal relationships. The objective is to make students aware of the diversity of legal systems and that analyzing and using different legal systems are essential in international business.

**GENB 6115 BUSINESS ETHICS**

Course looks at pragmatic ethical decision-making models for students to use as additional decision criteria in planning and executing business activities. Ethic structure in each individual, ethos of associated groups and interpretation of formalized definitions of "good" and "bad" behavior are examined.

**ACC 6121 INTERNATIONAL TAXATION OF BUSINESS ENTITIES**

A survey of incentives and restrictions contained mainly in United States tax law related to transnational commerce.

**ACC 6122 SPECIAL TOPICS IN ACCOUNTING**

A survey of recent accounting issues.

**ACC 6323 ACCOUNTING SEMINAR**

On Demand

A study of current and special topics concerning accounting. Emphasis will be toward literature from the professional public accounting societies and governmental agencies. This course has variable content and course may be repeated for credit. *Prerequisite: Recommend 15 hours of accounting, including ACC 3321, 3323, 3324 or its equivalent.*

**MANA 6131 MANAGEMENT — CURRENT ISSUES**

The development of management thought and practice with emphasis on current trends and problems in management, both domestic and international. Course may be repeated for credit.

**MANA 6132 INTERNATIONAL BUSINESS MANAGEMENT**

This course is an examination of forces in the international environment which affect the conduct of business across the border.

**MANA 6133 SELF-MANAGEMENT**

Develops skills for coping with day-to-day pressures of the business environment. Includes time management, stress management, and small group or team work management.

**MANA 6331 PERSONNEL ADMINISTRATION AND INDUSTRIAL RELATIONS**

On Demand

An analysis of the functions of personnel administration and of the relationship between the personnel-industrial relations system and the total organization system. Contemporary industrial relations, philosophies and practices. *Prerequisite: MANA 6330.*

**MIS 6131 MICROCOMPUTER CONCEPTS**

An introduction to the use of micro and mainframe computers as productivity tools. Emphasis will be placed on the use of wordprocessing, spreadsheet, and communication packages.

**MIS 6132 DECISION SUPPORT SYSTEMS**

A coverage of how information technology can enhance the quality and timeliness of decisions in an organizational context. The emphasis will be on increasing productivity of decision-makers through the use of computers.

**MIS 6133 EXPERT SYSTEMS**

The study and design of systems that simulate the behavior of some expert as he or she attempts to solve a complex problem in some specific domain. The emphasis will be on designing expert systems utilizing Expert System Shells.

**MIS 6335 SEMINAR IN MANAGEMENT INFORMATION SYSTEMS**

On Demand

Latest development and theory in information technologies. *Prerequisite: CIS 3335, 3336.*

**FINA 6141 FINANCIAL MANAGEMENT SEMINAR**

Topics will vary but will deal with some aspect of Corporate Financial Management.

**FINA 6142 INVESTMENTS SEMINAR**

Topics will vary but will deal with some aspect of security, firm evaluation, investment markets, or portfolio management.

**FINA 6341 FINANCE SEMINAR**

On Demand

Readings, reports and discussion of selected topics in finance. This course has variable content and course may be repeated for credit. *Prerequisite: 12 semester hours of graduate business courses.*

**ECO 6151 TIME SERIES FORECASTING TECHNIQUES**

Concepts and practice of forecasting techniques for business and economics.

**ECO 6152 INTERNATIONAL ECONOMICS**

Development of theoretical and analytical problems in the economic relations between nations.

**ECO 6153 SEMINAR IN ECONOMIC POLICY MAKING**

Identification of micro or macroeconomic problems and evaluation of policy choices and effects.

**ECO 6351 ECONOMICS SEMINAR**

On Demand

Readings and discussion of selected topics in economics. This course has variable content and course may be repeated for credit.

**ECO 6353 LATIN AMERICAN ECONOMIC DEVELOPMENT**

On Demand

Economic development principles as applied for the Latin American experience; growth and development strategies includ-

ing trade, borrowing, aid, education, infrastructure development and entrepreneurial activity. *Prerequisites: ECO 6301 or ECO 2353 and 2354.*

#### **MARK 6171 CONSUMER BEHAVIOR**

The course will provide a research-oriented overview of consumer behavior. It will focus on psychological factors influencing individual consumption behavior. Textbook chapters will be reinforced and amplified by readings from the original literature.

#### **MARK 6172 INTERNATIONAL MARKETING STRATEGY**

The purpose of this course is to provide participants with an understanding of the issues, problems, and opportunities in global marketing. Particular emphasis will be placed on the significance of international marketing in corporate strategy and in the contemporary world economy.

#### **MARK 6173 SERVICES MARKETING**

Services play an increasingly important role in the national and international economy. The objectives of this course are to understand services as a distinct sector of marketing; to understand service management; and to demonstrate the ability to perform services marketing research.

#### **MARK 6371 MARKETING SEMINAR**

On Demand

A study of historical and current thought in marketing theory and practice. This course has variable content and course may be repeated for credit.

#### **GENB 7600 THESIS**

On Demand

Research and writing of the thesis.

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## **Business Administration, Doctor of Philosophy (Ph.D.)**

*Dr. David L. Sturges, Director*

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#### **Faculty**

Atamian, Rubik (PhD, University of Texas at Austin, 1984), Assistant Professor, Accounting.  
de los Santos, Gilberto (PhD, University of Texas at Austin, 1972), Professor, Marketing  
De Merville, Wig (PhD, Texas Tech University, 1978), Professor, Accounting.  
Ellard, Charles (PhD, University of Houston, 1974), Professor, Economics.  
Ganguli, Gouranga (PhD, University of Mississippi, 1983), Professor, Accounting.  
Greene, Walter (PhD, University of Arkansas, 1976), Professor, Management.  
Hwang, Mark (PhD, University of North Texas, 1990), Assistant Professor, Management Information Systems.  
Lee, Daniel (PhD, University of Florida, 1977), Professor, Management Information Systems.  
Maberly, Edwin (PhD, Texas A&M University, 1978), Associate Professor, Finance.  
Minor, Michael (PhD, Vanderbilt University, 1987), Associate Professor, Marketing/International Business.  
Nasif, Ercan (PhD, University of North Texas, 1988), Assistant Professor, Management/ International Business.  
Prock, Jerry (PhD, University of Arizona, 1970), Professor, Finance.  
Sturges, David L. (PhD, University of North Texas, 1988), Associate Professor, Management/International Business.  
Taube, Paul (PhD, State University of New York, 1986), Associate Professor, Economics.  
Thorn, Ronald (PhD, Texas Tech University, 1973), Associate Professor, Management Information Systems.  
Vincent, Vern (PhD, University of Northern Colorado, 1972), Professor, Quantitative Methods.

#### **Graduate Program**

##### **Purpose**

The doctoral program in business administration provides students with the intellectual environment to develop skills and competencies in analyzing opportunities and problems, seeking solutions, and reporting findings related to increasing the effectiveness and efficiency of U.S. business in global markets.

## Scope

The PhD in Business Administration with an Emphasis in International Business is a minimum 66-hour, double major degree program. One major is in international business and focuses on trade and business among North, Central and South American trading partners and the global business environment. The second major is selected by the student from specialties in Accounting/Law, Economic/Finance, or Management/Marketing. In addition, the degree requires a support field from outside the School of Business Administration to provide students with a broader understanding of the political, social, or cultural aspects of other parts of the world. A quantitative core of courses is required to provide students with a firm understanding of research methods and procedures to ensure that future research is based on sound methodology with appropriate interpretations. The degree requires a student to perform an internship in the international environment. Lastly, a dissertation that serves to contribute to the knowledge in the student's chosen fields must be produced and defended in a public forum.

## Admission to the PhD Program

Admission to the program is a two-step process. First, a student must apply for and be granted admission to the University of Texas-Pan American. Acceptance to UT Pan American does not guarantee admission to the doctoral program. The second step requires admission to the doctoral program in the School of Business Administration. The following documents must be submitted to the Office of Admissions and Records, The University of Texas-Pan American (No exceptions to these requirements are permitted.):

1. Application for admission to the university.
2. Transcripts from all previous college or university course work.
3. Official scores from the Graduate Management Admission Test (GMAT) resulting from an administration of the exam within five years of the date of application.
4. Official scores from the Test of English as a Foreign Language (TOEFL), if English is not the primary language of the applicant.
5. Official scores from the Test of Spoken English (TSE), if applicable.

The following documents must be submitted to the Graduate Programs Office-PhD Program, School of Business Administration (*No exceptions to these requirements are permitted.*):

1. Application for the doctoral program in business administration.
2. Three letters of recommendation from references who can attest to the applicant's scholarly potential.
3. A brief essay from the applicant describing his or her objectives in pursuing doctoral study.
4. A non-refundable check in the amount of \$35 (U.S.) payable to The University of Texas-Pan American to cover costs of application evaluation.

In general, applications are for entrance to the program in Fall semesters. For Fall admission all documents must be received in the graduate studies office or the Office of Admissions and Records by April 1 preceding the Fall of entrance desired. In rare instances, admission will be considered for Spring entrance. Because of sequencing of courses, Spring entrance is not recommended. However, if Spring entrance is sought, applications for admission must be received by October 1. No summer admission is permitted.

## Unconditional Admission

For an applicant to qualify for unconditional admission consideration, he or she must have a GMAT score in the upper 75 percent of those taking the exam (approximately 570). Applicants for whom English is not the primary language of the country of origin must submit scores from the TOEFL and the TSE with a score of 600 on the TOEFL as the minimum for unconditional admission consideration.

## Probationary Admission

In rare instances, applicants not meeting the above criteria may apply for probationary admission consideration. The Doctoral Program Admission Committee will review all application documents to make a determination of the probability of successful completion of the program by the applicant. The application documents should contain any material or documents that provide testimony to the ability of the applicant to complete doctoral level work.

## Leveling Course Work

All students entering the doctoral program are required to have a foundation of relevant course work. The foundation may be achieved by the student holding an MBA degree, an MS in a business field that includes the AACSB recommended common body of knowledge, or a selection of course work designed to provide the foundation. Any deficiency in the foundation course work must be removed before the student may enroll in any doctoral level work. No exceptions to this are permitted. At a minimum the leveling courses are:

Linear algebra and calculus	minimum 3 hours at the graduate level (ECON 6350 or equivalent)
Accounting	minimum 3 hours at the graduate level (ACCT 6320 or equivalent)
Finance	minimum 3 hours at the graduate level (FINA 6340 or equivalent)
Management	minimum 3 hours at the graduate level (MANA 6330 or equivalent)
Marketing	minimum 3 hours at the graduate level (MARK 6370 or equivalent)
Statistics	minimum 3 hours at the graduate level (MANA 6301 or equivalent)

### Transfer of Course Work

Up to 18 hours may be transferred and applied to the doctoral degree. However, courses transferred to UT Pan American are not automatically accepted for degree credit. The student's Program Advisory Committee (PAC) will review all requests for transfer degree credit for appropriateness of the courses to the degree plan.

### PhD Degree Requirements

The doctoral degree is a minimum 66-hour degree program. The precise number of hours depends on the program customized by the student's Program Advisory Committee and by the length of time required to complete the dissertation. At a minimum the 66 hours comprise:

International Business	15 Hours
Business Specialty	15 Hours
Quantitative Core	12 Hours
Support field	9 Hours
International Internship	3 Hours
Dissertation	<u>12 Hours</u>
	66 Hours

In addition, each student must show a high degree of fluency in Spanish or Portuguese before graduating. Obtaining the language skills necessary for graduation is the responsibility of the student and must be secured in addition to the hours required for the degree. Students may provide evidence of proficiency in one of three ways: (a) providing scores on standardized tests in the language to the 70th percentile or greater, (b) providing transcripts showing a minimum of 18 hours of college course work in the language, (c) showing evidence of completing intensive language institutes to the intermediate level.

All students are required to take written and oral comprehensive examinations on the major fields and the support field at the close of the course work stage of study. Successful completion of the exams is required before the student may enroll in dissertation hours and begin working solely on the dissertation.

### Course Scheduling and Residency Requirement

Courses in fulfillment of the degree requirements are generally scheduled in the afternoons on a two-day-a-week schedule. In some instances, some courses may be scheduled one-day-a-week. This schedule permits students on assistantships to teach courses in the mornings or in the evenings.

Each student must complete a residency as a full-time student consisting of a minimum of two consecutive long sessions with a minimum of 9 semester hours in each semester. Hours of dissertation credit may not be used to fulfill this requirement.

Each student is required to take 12 hours of dissertation work at the university. This provides the opportunity for students to maintain close working relationships with the supervisory committee to ensure that a significant amount of the dissertation is completed before the student leaves the campus. Enrollment in 6 hours of dissertation in a semester qualifies as full-time status for a student.

### Financial Aid

In addition to financial aid in the form of loans and grants available through the financial aid office of the university, the doctoral program offers three types of financial aid. In general, all financial aid will be reviewed each semester to ensure students are making satisfactory progress on degree programs, are maintaining a minimum of 3.0 GPA on all graduate course work, and are meeting the full-time student requirement. Students not meeting these criteria will be discontinued for financial support.

*Graduate Assistantship:* This assistantship carries a \$10,000 per year stipend and an 18-hour per week work responsibility. The work responsibility may be fulfilled by the assistant teaching undergraduate courses, assisting a faculty member as a teaching assistant, or a combination. To qualify for an assistantship, a student must be enrolled full time (minimum 9 semesters hours per semester).

*Research Assistantship:* This assistantship carries a \$10,000 per year stipend and an 18-hour per week work responsibility. Fulfillment may be by the student assisting a faculty member or group of faculty members with research projects or serving as a research assistant in the Institute for International Business Research. To qualify a student must be enrolled as a full time student and have a minimum of 18 hours of doctoral work completed including the first two required

courses in the student's quantitative sequence (ISQM 7310 Applied Multivariate Statistics and ISQM 7312 Sem. in Behavioral Science Research or ISQM 7313 Econometrics I).

**Graduate Fellowship:** This fellowship carries up to \$10,000 per year stipend and no work requirement. Fellowships are limited and highly competitive. They typically will be awarded to highly recruited students who are perceived to represent major contribution potential to the business fields. The fellowships may be awarded in combination with other types of assistantships.

**Financial Aid for Leveling Work:** The doctoral program offers no financial aid for students taking courses to fulfill deficiencies in required background work. Students requiring assistance for such study are encouraged to contact the Office of Financial Aid, University of Texas-Pan American to investigate the options that are available.

## Course Descriptions

### Business Foundation (Leveling) Course Work (See MBA degree listing)

ACCT 6320 Financial and Managerial Accounting  
ECO 6350 Managerial Economics  
FINA 6340 Financial Administration  
MANA 6303 Statistics Foundation  
MANA 6330 Management Theory and Organizational Behavior  
MARK 6370 Marketing Policy and Management

## International Business Courses

### INTB 7330 SEMINAR IN MANAGEMENT OF INTERNATIONAL BUSINESS

Topics include the environment of international business and how it affects the management of multinational enterprises. Planning, organizing, staffing and control in a global setting is discussed. Current issues are emphasized. Decision making and leadership of the international manager and managing global interdependencies are also covered.

### INTB 7340 SEMINAR IN INTERNATIONAL FINANCIAL MANAGEMENT

The study of the theoretical and practical frameworks for the valuation of the firm with international operations. This framework highlights the multicurrency dimensions of firms with foreign assets and liabilities and recognizes that foreign currency cash flows have unique characteristics of risk and return. The underlying assumption of such a course is that financial management concepts need to recognize the additional variables and constraints created by exchange rates; possible imperfect money, capital and exchange markets; host government policies toward the operation of foreign firms; and the manner by which the accounting profession measures results.

### INTB 7350 SEMINAR IN INTERNATIONAL ECONOMICS

The study of the pure theory of trade, exchange rate determination, trade policy and trade agreements, balance of payments problems, and international money and payment systems.

### INTB 7360 SEMINAR IN REGIONAL BUSINESS

Topical courses focusing on specific geographic regions (e.g., Latin America, Asia, Europe, North America, Mid-East, North Africa, Sub-Saharan Africa, Mexico). Each seminar will analyze economic, political and cultural aspects of each region with particular emphasis on the international dimensions. Seminars covering different regions may be taken for credit.

### INTB 7369 SEMINAR IN INTERNATIONAL BUSINESS ISSUES

A research seminar course focuses on a wide range of current international business issues, such as border business development, free trade zones, international trade financing, international patent and trade mark protection. Seminar topics vary with the interests of the profession, doctoral students and doctoral faculty. Course may be repeated for credit with different topics.

### INTB 7370 SEMINAR IN INTERNATIONAL MARKETING STRATEGY

Discusses international marketing concepts and strategies with an emphasis on the influence of the market plan. Issues dealing with standardization versus adaptation strategies, counterfeiting and protection of industrial property, and distribution alliances are analyzed.

### INTB 7399 INTERNATIONAL BUSINESS INTERNSHIP

This is a non credit course required of all doctoral students. It must be taken during the class room phase of study. It may be taken during a long semester or, preferably, during summer semester(s). The internship must be with a company that requires the intern to participate in business activity in Latin American countries. Internship with a maquiladora plant in Mexico meets the basic requirements. Or, the internship may be a teaching, research or service position with a university that requires cross-cultural teaching or research activities. Internships may be paid or unpaid. The school will assist students in

securing internships, but the student is responsible for ensuring that the internship is completed before the end of course work.

## Quantitative Methods Courses

### ISQM 7310 SEMINAR IN APPLIED MULTIVARIATE DATA ANALYSIS

Multivariate statistical topics include: data plotting, outlier detection, multiple regression analysis, discriminate analysis, multivariate analysis of variance, canonical correlation analysis, factor analysis, and cluster analysis. Computer applications using popular software packages will be presented, discussed and analyzed. *Prerequisite: Business Research Foundations Course or equivalent.*

### ISQM 7312 SEMINAR IN BEHAVIORAL SCIENCE RESEARCH METHODS

In-depth study and analysis of the research process, particularly to include measurement, research design methodology, scaling and instrument design, sampling design, data collection techniques, and application of multivariate data analysis techniques. Course focuses on preparing a research proposal for a selected research question. *Prerequisite: ISQM 7310 Applied Multivariate Data Analysis.*

### ISQM 7313 SEMINAR IN ECONOMETRICS I

An introduction to the single equation regression model in a matrix algebra context. Examination of ordinary least squares, generalized least squares and other extensions of the standard framework, such as spline estimators and special transformations. *Prerequisite: ISQM 7310 Applied Multivariate Data Analysis.*

### ISQM 7314 SEMINAR IN CROSS-CULTURAL RESEARCH METHODOLOGY

Methodological problems in cross-cultural research are covered. Topics covered include: criterion problem (definition of culture), methodological simplicity, sampling problems (representativeness, selection of cultures, and Galton's problem), equivalence of instrumentation and data collection, analysis of qualitative data, levels of analysis, and generalizability. Critical analysis of published research will be used throughout the semester. *Prerequisite: ISQM 7312 Behavioral Science Research Methods.*

### ISQM 7315 SEMINAR IN ECONOMETRICS II

Investigation of single and multi-equation systems under special conditions such as errors in variables, simultaneity, lagged dependent variables, latent variables and heteroscedasticity. Coverage of single and multi-equation forecasting techniques such as ARIMA and VAR. Procedures will be applied to the estimation and testing of specific theories in economics and finance. *Prerequisite: Econometrics I.*

### ISQM 7319 SEMINAR IN BUSINESS RESEARCH AND APPLICATIONS

Continued development of research skills that are applicable to the business discipline. Emphasis will be placed on critical evaluation of published research in the business field with the goal that students completing the course will have developed the research skills necessary to successfully develop and publish research in the business field. *Prerequisites: 9 semester hours of the international core courses, plus ISQM 7315 Econometrics II or ISQM 7314 Cross-cultural Research Methodology.*

## Business Specialty Courses

### ACCT 7321 SEMINAR IN ACCOUNTING TOPICS

Selected topics in accounting as they relate to current issues. Various contemporary subjects will be developed by the instructor of this course. Course may be repeated for credit with different topics.

### BLAW 7381 SEMINAR IN LAW AND DIPLOMACY

Study of the legal environments of different countries and regions and how they affect international business. Emphasis will be on current legal issues and solutions. Essentials of international and public diplomacy, international negotiation strategies and bargaining techniques will also be included. May be repeated for credit with different topics.

### ECON 7351 SEMINAR IN ECONOMICS TOPICS

Selected topics in economics as they relate to current issues. Various contemporary subjects will be developed by the instructor of this course. May be repeated for credit with different topics.

### FINA 7341 SEMINAR IN FINANCE TOPICS

Selected topics in finance as they relate to current issues. Various contemporary subjects will be developed by the instructor of this course. May be repeated for credit with different topics.

### **MANA 7331 SEMINAR IN MANAGEMENT TOPICS**

Seminar topics will vary with the interests of the instructor or students. Readings and discussions will carry a research orientation with the goal to produce manuscripts suitable for submissions to academic conferences or journals. Course may be repeated for credit with different topics.

### **MARK 7371 SEMINAR IN MARKETING TOPICS**

Examination of studied topics involved with current literature and current research interests of faculty and students. Course may be repeated for credit with different topics.

## **Dissertation Courses**

### **BADM 9690 DISSERTATION (RESIDENT)**

Students register for this course following completion of all other doctoral course requirements and successfully completing the comprehensive examinations. This course must be registered for a minimum of two consecutive long semesters of six hours each. If the dissertation is not completed following the 12-hour requirement, the student must register in three hours of BADM 9391 each semester in continuous enrollment, exclusive of summer sessions, until successful defense of the dissertation. May be repeated.

### **BADM 9391 DISSERTATION (EXTENSION)**

Students register for this course in each long semester following completion of the 12-hour dissertation residency until the dissertation is defended. May be repeated.

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## **Department of Chemistry**

*Dr. Jose P. Castrillon, Chair*

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### **Full-time Faculty**

Ahmad, Hassan (PhD, Aligarh Muslim University, 1983), Assistant Professor, Biochemistry.

Baca, Ernest J. (PhD, University of New Mexico, 1969), Professor, Physical Chemistry.

Castrillon, Jose P. (PhD, University of Buenos Aires, 1951), Associate Professor and Chair, Organic Chemistry.

Mondal, Jalal U. (PhD, University of New South Wales, 1979), Assistant Professor, Inorganic Chemistry.

Sandoval, Deig N. (PhD, University of Arkansas, 1983), Assistant Professor, Analytical Chemistry.

Villarreal, John R. (PhD, Texas A & M University, 1976), Associate Professor, Physical Chemistry.

The Department of Chemistry offers a major and a minor in chemistry. In addition to a program of study for those students interested in the profession of chemistry, the department also offers a program for pre-dental and pre-medical students which leads to the Bachelor of Science Degree in Chemistry.

The Department of Chemistry also has a plan of study for pre-pharmacy students and for students interested in teacher certification. The departmental course offerings also serve as supporting courses for other majors that require a knowledge of Chemistry.

The laboratories of the Chemistry Department are well equipped for undergraduate chemistry courses. The following major instruments are available: infrared and ultraviolet and visible spectrophotometers, nuclear magnetic resonance and mass spectrometers, gas chromatographs and high pressure liquid chromatograph. In addition to the formal laboratory work offered in the department, the Chemistry major may choose to work on an independent research project under the supervision of a faculty member.

### **Degree Requirements**

Chemistry majors should include 8 semester hours of Physics, 8 semester hours of Biology and MATH 1370 in their programs.

#### **Major in Chemistry:**

31 or 32 semester hours of chemistry; must include Chemistry 2401, 3301, 3401, 3402 or 4488, 3404, 4401, 4402 and one or two from 3403, 4301, 4302, 4488, 4403. NOTE: CHEM 1402 or its equivalent under CEEB or CLEP is a prerequisite for all other courses in Chemistry.



**Major in Chemistry with Biology Minor:***(Pre dental or Pre medical)*

Same as a major in Chemistry (above) and must also include 18 semester hours in biology, 6 hours of which must be advanced and Physics 1401, 1402. Biology 2402 and Psychology 1313 are recommended.

**Minor in Chemistry:**

18 semester hours of which 6 must be advanced.

**Teacher Certification in Chemistry:**

*Secondary Plan I:* 37-38 semester hours in Chemistry of which 25-26 must be advanced.

*Secondary Plan II:* 28 semester hours in Chemistry of which 16 must be advanced.

**Pre-pharmacy:***Freshman Year*

BIOL 1401, 1402

CHEM 1401, 1402

ENG 1301, 1302

MATH 1340, 1356, 1357, 1360, 1370

HIST 2313, 2314

Kinesiology 2 hours

*Sophomore Year*

ENG (Soph. Lit.) 6 hours

CHEM 3401, 3404

MATH 2330

POLS 2313, 2314

BIOL 3401

Kinesiology 2 hours

**NOTE:** A knowledge of typing is expected. The University of Texas at Austin requires only one semester of freshman English and one of sophomore English. BIOL 3401 is required by the University of Houston and UT-Austin. The University of Houston also requires COMM 1303, social science electives, 3 hours, and cultural heritage electives, 6 hours, while UT-Austin requires 9 hours of electives and 4 hours of Physics. See *Chemistry Department* for other specifics, since curricula at other institutions may change.

**Course Descriptions****CHEM 1401 GENERAL CHEMISTRY***(Texas Common Course Number is CHEM 1411.)*

Fundamental principles of pure and applied chemistry. Includes theories of the physical and chemical structure of elements, compounds and mixtures. 3 hours lecture and 3 hours laboratory.

**CHEM 1402 GENERAL CHEMISTRY***(Texas Common Course Number is CHEM 1412.)*

A continuation of Chemistry 1401 including ionic equilibrium, oxidation-reduction, qualitative analysis, inorganic and introductory organic chemistry. 3 hours lecture and 3 hours laboratory. *Prerequisite:* CHEM 1401. \$3 laboratory Fee.

**CHEM 2401 QUANTITATIVE ANALYSIS**

An introductory study of methods, equipment and practices of quantitative inorganic chemistry. Both volumetric gravimetric procedures will be covered in the laboratory work. 2 hours lecture and 6 hours of laboratory. *Prerequisite:* CHEM 1402. \$4 laboratory Fee.

**CHEM 3202 INORGANIC CHEMISTRY LAB**

A study on the preparation, purification and characterization of inorganic compounds involving advanced laboratory techniques. *Prerequisite:* CHEM 3301. Can be taken concurrently with CHEM 3301. \$4 laboratory Fee.

**CHEM 3301 INORGANIC CHEMISTRY**

An introductory study of the elements other than carbon and their compounds based on the periodic classification and certain related theoretical concepts explaining structure and reactivity. 3 hours lecture. *Prerequisite:* 12 hours of Chemistry.

**CHEM 3401 ORGANIC CHEMISTRY**

A study of carbon compounds including an introduction to aromatic compounds. This course is either terminal or continued with Chemistry 3404. Laboratory work is mainly basic techniques and preparation and purification of compounds. 3 hours lecture and 3 hours laboratory. *Prerequisite:* CHEM 1402. \$4 laboratory Fee.

**CHEM 3402 QUANTITATIVE ANALYSIS**

A continuation of Chemistry 2401 covering the more advanced quantitative methods, with special emphasis on separation and analysis of mixtures. 2 hours lecture and 6 hours laboratory. *Prerequisite:* A "C" or better in CHEM 2401. \$4 laboratory fee.

**CHEM 3403 BIOCHEMISTRY**

An elementary course in physiological chemistry or biochemistry. 3 hours lecture and 3 hours laboratory. *Prerequisite:* CHEM 3401. \$4 laboratory Fee.

**CHEM 3404 ORGANIC CHEMISTRY**

A continuation of Chemistry 3401. Coverage of compounds is detailed. 3 hours lecture and 3 hours laboratory. *Prerequisite:* CHEM 3401. \$5 laboratory Fee.

**CHEM 4201 CHEMISTRY PROBLEMS**

A course adapted to the study of special topics in chemistry. For advanced students capable of developing a problem independently through conference and activities directed by the instructor. Problem is chosen by the student with the approval of the instructor prior to registration. *Prerequisite:* Major in Chemistry with at least junior standing. \$4 Laboratory Fee.

**CHEM 4202 CHEMISTRY PROBLEMS**

A continuation of Chemistry 4201. *Prerequisite:* CHEM 4201. \$4 laboratory Fee.

**CHEM 4301 HISTORY AND PHILOSOPHY OF CHEMISTRY**

A study of the historical and philosophical development of chemical concepts. 3 hours lecture. *Prerequisite:* 12 semester hours of Chemistry.

**CHEM 4302 BIOCHEMISTRY**

The reactions of intermediary metabolism. 3 hours lecture. *Prerequisite:* CHEM 3403.

**CHEM 4378 SPECIAL TOPICS IN CHEMISTRY**

A course designed to cover in more detail the more specialized areas in the field of chemistry. *Prerequisite:* 12 hours of Chemistry.

**CHEM 4401 PHYSICAL CHEMISTRY**

Explanation and mathematical development of the theories and principles of chemistry with attention to the subjects of atomic structure, the gas laws, thermodynamics, the phase rule and similar topics. 3 hours lecture and 3 hours laboratory. *Prerequisites:* Six semester hours of Calculus. \$4 laboratory Fee.

**CHEM 4402 PHYSICAL CHEMISTRY**

A continuation of Chemistry 4401. 3 hours lecture and 3 hours laboratory. *Prerequisite:* CHEM 4401. \$4 laboratory fee.

**CHEM 4488 INSTRUMENTAL ANALYSIS**

A study of measurement techniques and methods using instruments to obtain qualitative and quantitative information. Includes a study of instrument modules, transducers, amplifiers, control and readout devices. Will usually include computer application either to instrument control or data reduction. 2 hour lecture and 6 hours laboratory. *Prerequisite:* A knowledge of quantitative analytical technique. Laboratory fee \$5.

**CHEM 5301 BIOCHEMISTRY**

The reactions of intermediary metabolism. 3 hours lecture. *Prerequisites:* CHEM 3403.

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**Clinical Laboratory Sciences**

See Allied Health Programs

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# Department of Communication

*Dr. Jack R. Stanley, Chair*

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## Communication

### Full-time Faculty

Courtney, Janice Ray (MFA, University of Texas at Austin, 1961), Assistant Professor, Speech Communication.  
Cummins, Doug\* (PhD, Texas Tech University, 1980), Professor, Theatre.  
Garcia, Graciela G. (MS, Texas Christian University, 1980), Lecturer, Communication Disorders.  
Grabowski, Thomas E. (MFA, University of Illinois-Urbana, 1982), Lecturer, Theatre.  
Hawley, James A.\* (PhD, Ohio State University, 1967), Associate Professor, Theatre.  
Johnson, Barbara A.\* (PhD, University of Florida, 1982), Associate Professor, Program Director, Communication Disorders.  
Mata-Pistokache, Teri (MS, Texas Christian University, 1983), Assistant Professor, Communication Disorders.  
Mathews, Charles R. (MA, University of Houston, 1968), Lecturer, Speech Communication.  
McLemore, George C.\* (PhD, University of Pittsburgh, 1985), Assistant Professor, Program Coordinator, Speech Communication.  
Meline, Timothy J.\* (PhD, University of Illinois-Urbana, 1976), Assistant Professor, Communication Disorders.  
Monta, Marian F.\* (PhD, Cornell University, 1971), Professor, Program Coordinator, Theatre.  
Parchman-Gonzalez, Keri (MA, University of Texas-Pan American, 1989), Lecturer, Communication Disorders.  
Quinn, Rosemary\* (PhD, Temple University, 1992), Assistant Professor, Communication Disorders.  
Rieke, R. Neal (MS, MPA, North Texas State University, 1976), Assistant Professor, Program Undergraduate Adviser, Speech Communication.  
Rollins, Robert J. (MS, University of Kansas, 1967), Lecturer, Program Undergraduate Adviser, Journalism.  
Saavedra, Dora\* (PhD, University of Kansas, 1993), Assistant Professor, Speech Communication.  
Stanley, Jack R.\* (PhD, University of Michigan, 1971), Associate Professor, Department Chair, Theatre, Television, Film.  
Strong, William\* (PhD, University of Arizona, 1985), Assistant Professor, Program Graduate Adviser, Speech Communication.  
Wakefield, Robert W. (PhD, University of Colorado), Lecturer, Program Coordinator, Journalism.

### \*Graduate Faculty

### Focus of Communication Department

The primary aim of the Communication Department is to advance the discovery and application of humanistic, behavioral, and linguistic knowledge of human symbolic interaction. As such, communication is examined in its various forms, verbal/nonverbal; normal/disordered; in its media occurrences — conference, platform, theatre, print, radio, film, television; in its interpersonal/organizational environments; in its cultural contexts; and in its influence on the course and quality of public policy and societal change.

To satisfy the oral communication skills competency required by the Southern Association of Colleges and Schools (SACS) Criteria for Accreditation, the Communication Department offers two Speech Communication courses (COMM 1303 and COMM 1313) in the University College/General Education curriculum. To help satisfy the fine arts requirement in humanities, the Communication Department offers a Theatre course (COMM 2312) in the University College/General Education curriculum. The Communication Department sponsors a chapter of Alpha Psi Omega, national theatre honorary fraternity, and hosts a university chapter of the National Student Speech-Language-Hearing Association.

The Communication Department offers the following degree programs:

- Bachelor of Arts in Communication
- Bachelor of Arts in Speech and Hearing Therapy
- Master of Arts in Communication Disorders
- Master of Arts in Speech Communication
- Master of Arts in Theatre

*Career Potential:* Broad career areas in communication disciplines include: international communication; personnel/human resource management; sales and marketing; public relations and advertising; training and organizational development; mass communication - broadcast and print journalism, communication education/instruction; electronic educational materials;

government-politics-religious-social services; educational theatre; community theatre; design and directing; acting; arts management; TV direction and production; and, speech-language pathology — public schools, hospitals, community clinics.

## **Bachelor of Arts in Communication**

Communication is a broad-based major totaling a minimum of 51 semester hours of which 36 are advanced hours. (A minor is not required.) The student must complete an “internal core” — COMM 2350 and COMM 3350. The student will select a single *concentration area* from either the Speech Communication, Theatre, or Journalism program areas. (A 1-hour communication practicum course must be taken each fall and spring semester of enrollment.) Within each concentration area are specialized *career tracks*. (The student must work closely with a curriculum adviser in selecting an appropriate career track for the student’s degree plan.)

*Career Tracks* (non-certification) available under each concentration area are as follows:

- Speech Communication concentration
  - Public Address/Rhetorical Communication track
  - Human Resources/Communication Management track
- Theatre concentration
  - Design track
  - Production track
  - Management track
  - Performance track
- Journalism concentration
  - Print Journalism track
  - Broadcast Journalism track
  - Advertising/Public Relations track

## **Public School Teacher Certification**

Career Tracks available under each concentration area are as follows: (*NOTE*: Teacher certification degree plans are structured differently, requiring teaching field(s), a possible minor, and 18 advanced hours of Professional Development/Education coursework. Confer with the undergraduate adviser.)

### *Speech Communication concentration*

Secondary Level, Option 1, 37 semester hours

COMM 1303, 1313, 1307 or 2302, 1310, 2404, 3314, 3315, 3301 or 4308, 3316, 3330, 3350 or 4331, and 4103 (three times)

Secondary Level, Option 2, 24 semester hours

COMM 1303 or 1313, 1307 or 2302, 3314, 3301 or 4308, 2404, 3330, 3350 or 4331 and 4103 (two times)

### *Theatre concentration*

Secondary Level, Option 1, 38 semester hours

COMM 1411, 1305, 1310, 3311 or 3323, 3350, 4301, 4302, 4315, 4316, 4418, 3309, and 4101 (three times)

### *Journalism concentration*

Secondary Level, Option 2, 24 semester hours

COMM 1304, 1306, 3304, 3305, 3306, 4313, 4326, 4321

## **Minor in Communication**

The student, with departmental advisement, will complete 18 semester hours, of which 9 semester hours must be advanced coursework, in a *single* concentration of Communication — either Speech Communication, Theatre, or Journalism.

## **Bachelor of Arts in Speech and Hearing Therapy**

A major in Speech and Hearing Therapy, a pre-professional degree, consists of COMM 1309, 2309, 2310, 2311, 3319, 3321, 3420, 3422, 4410, 4311, and 4312 and ED 4372. In addition, the student must earn 75 hours of clinical practicum supervised by personnel holding the Certificate of Clinical Competence from the American Speech-Language-Hearing Association.

Eligibility for clinical practicum requires a 2.5 GPA in the following courses:

COMM 1309, 2309, 2310, 2311, and 3319. With departmental advisement, the student will complete an 18-semester hour minor in such areas as Psychology, Biology, Spanish, Computer Science, Rehabilitative Services, Communication, Special

Education or English. Students may obtain information on specific certification requirements and proficiencies from the curriculum coordinator and their adviser.

## Master of Arts in Communication Disorders

### Purpose

This program is designed for those students who plan to pursue advanced studies ultimately leading to the Certificate of Clinical Competence from the American Speech-Language-Hearing Association and the Texas License in Speech-Language Pathology. Specifically, the program is designed to meet the career needs of students who wish to:

1. Provide diagnostic and remedial clinical services to children and adults;
2. Specialize in the study of Communication Disorders among Spanish/English bilingual/bicultural populations;
3. Enhance career opportunities for employment in hospital settings, rehabilitation centers, and community clinics;
4. Continue studies leading to the Doctor of Philosophy Degree.

### Scope

The Master of Arts Degree in Communication Disorders is a broad-based, highly specialized program designed to provide training opportunities in analytical decision-making and clinical management skills necessary to function either in private clinical enterprises or public and non-profit organizations. The University of Texas-Pan American Master of Arts degree program readily accommodates those individuals who hold the baccalaureate degree in speech-language-hearing. In addition, the faculty is eager to recruit students from such related disciplines as biology, education, or psychology. Thirty-six semester hours of study and supervised clinical practicum hours are required. Graduate courses are generally scheduled during the early evening hours to accommodate the needs of students who are employed.

### Admission to the Communication Disorders Graduate Program

To enroll in this graduate program, students must first meet the graduate admission requirements for The University of Texas-Pan American. Application for admission to the University may be made by contacting the Office of Admissions and Records, University of Texas-Pan American, Edinburg, Texas 78539. In addition, the Coordinator for Communication Disorders, Department of Communication, must be provided with a letter stating the intention to enroll, and with the following information:

1. A copy of the Graduate Record Examination scores;
2. Official transcripts of all previous undergraduate and graduate academic coursework;
3. Copies of all clinical practicum hours with the signature and credentials of supervisors;
4. Evidence of having completed all requisite undergraduate coursework or its equivalent, to include:
  - a. Voice and Phonetics 3 semester hours
  - b. Anatomy and Physiology of Speech/Hearing Mechanism 3 semester hours
  - c. Introduction to Comm. Disorders 3 semester hours
  - d. Functional Disorders of Speech & Language 3 semester hours
  - e. Language Development 3 semester hours
  - f. Organic Disorders of Speech & Language 3 semester hours
  - g. Diagnostic Procedures 4 semester hours
  - h. Audiology 4 semester hours
  - i. Auditory/Visual Communication 3 semester hours

### Degree Requirements

The Master of Arts Degree in Communication Disorders requires 36 semester hours plus 3 hours of practicum enrollment of which 30 hours must be in courses numbered 6000 or higher. In addition, all candidates will earn the minimum practicum hours as established by the American Speech-Language-Hearing Association for the Certificate of Clinical Competence. Prior to taking graduate courses leading to the Master of Arts degree in Communication Disorders, 24 hours of undergraduate professional core courses must have been completed. Candidates within 12 semester hours of completing the master's degree must satisfactorily pass written and oral examinations administered by the graduate faculty of the department.

The graduate courses for Communication Disorders are listed below.

- COMM 6300 Communication Research
- COMM 6301 Speech Sciences
- COMM 6302 Communication Development of Bilingual/Bicultural Children
- COMM 6303 Language Disorders in Children
- COMM 6304 Orofacial Pathologies
- COMM 6305 Stuttering
- COMM 6306 Behavior Modification in Speech Pathology
- COMM 6307 Articulatory Disorders
- COMM 6308 Language Disorders in Adults

COMM 6309 Assessment of Communication Disorders of Bilingual/Bicultural Populations  
COMM 6310 Voice Disorders  
COMM 6311 Seminar in Communication Disorders  
COMM 6312 Clinical Audiology  
COMM 6313 Augmentative Communication  
COMM 6314 Seminar in Audiology  
COMM 7300-7301 Thesis

Application for admission to the university may be made by contacting the Office of Admissions and Records, The University of Texas-Pan American.

## **Master of Arts in Speech Communication**

### **Purpose**

This program is designed for those who desire to pursue advanced studies in Speech Communication as a means of enhancing their professional and academic careers. Specifically, the objectives of this Master's degree are to:

1. Provide instruction for teachers and educational administrators to upgrade their pedagogical and administrative skills;
2. Provide advanced instruction for communication career training in organizational contexts such as business, industry, public and private agencies, e.g., communication consultant/trainer, corporate relations;
3. Prepare students for advanced graduate study in Speech Communication leading to the terminal Doctor of Philosophy Degree.

### **Scope**

The Master of Arts degree in Speech Communication is a broad-based and individualized degree program that addresses all of the essential dimensions and components of Speech Communication studies including organizational, group, interpersonal, intercultural, mass media and rhetorical and communication theory. The student will acquire a grounding in communication research, both theoretical and applied. Substantial flexibility exists for the student in Speech Communication to design a course and research program that fits his or her unique and specialized professional and educational goals.

### **Admission to Master of Arts Program in Speech Communication**

In order to be admitted to the Master of Arts program in Speech Communication, the student must first meet all requirements for admission to the Graduate School of UT Pan American, as well as other requirements specified below. Application for admission to the University must be made to the Office of Admissions and Records, University of Texas-Pan American, Edinburg, Texas 78539. All students applying for admission to the Master of Arts program in Speech Communication are required to provide the Director of Graduate Studies in the College of Arts and Sciences the following:

1. Graduate Record Examination (GRE) scores (see University Graduate Admission requirements);
2. Official transcripts of all previous academic coursework;
3. Applicable catalog(s) for evaluation of transcript(s).

### **Specific Admission Requirements**

In addition to existing University requirements, the entering student must hold a bachelor's degree or its equivalent from a college or university accredited by the regional accrediting association for the region in which the institution is located. In addition, the entering student must have a 2.5 grade point average in upper-division work, 2.75 grade point average in upper-division work in communication courses, and 3.0 in prior graduate work (if applicable). The bachelor's degree or equivalent must be in communication or a communication-related discipline or student must have 24 hours of undergraduate course work in communication, including 18 hours of upper-division coursework.

### **Degree Requirements**

The Master of Arts in Speech Communication includes a core of 6 semester hours composed of the following:

COMM 6300 Communication Research  
COMM 6328 Applied Research in Communication

All candidates select 18 semester hours of designated electives, taken from coursework in Speech Communication. All candidates select 6 semester hours in non-Speech Communication electives. Finally, an additional 6 semester hours are required and can be met by successfully completing a thesis or by taking 6 semester hours of coursework selected from designated electives or free electives approved by the student's graduate adviser. (In most cases, students will be encouraged to take non-Speech Communication course electives in the fields of Psychology, History, Political Science, English, Sociology and Business.)

*Comprehensive Written Examination* — All candidates for the Master of Arts degree in Speech Communication will be required to pass a comprehensive written, or written and oral, examination encompassing the information and materials in

Speech Communication and related coursework on the completion of at least 24 semester hours, but prior to completion of 30 semester hours, of graduate work toward a degree.

In tabular form, the requirements for a Master's degree in Speech Communication appear as follows:

<i>Category</i>	<i>Sem. Hr. Requirements beyond BA</i>
A. Core Requirements (6300, 6328)	6
B. Designated Electives	18
C. Free (non-Speech Comm.) Electives	6
D. Other	6
(1) Thesis =	6
or	
(2) Free or Designated Electives =	6
TOTAL Semester Credit Hours	36
E. Comprehensive Written Examination	

#### **Courses Available for Speech Communication Graduate Program**

COMM 6300 Communication Research  
COMM 6328 Applied Research in Communication  
COMM 6320 Seminar in Rhetorical and Communication Theory  
COMM 6321 Seminar in Communication Education  
COMM 6322 Seminar in Culture and Communication  
COMM 6323 Seminar in Interpersonal Communication  
COMM 6324 Seminar in Organizational Communication  
COMM 6325 Seminar in Group Communication  
COMM 6326 Seminar in Nonverbal Communication  
COMM 6327 Seminar in Contemporary Rhetorical Theory and Criticism  
COMM 7302-7303 Thesis

#### **Electives in Other Departmental Programs and Support Areas**

COMM 6360 Historical Studies in Mass Media  
COMM 6361 Genre Studies in Film and Video

#### **Communication Courses Within Master's Degree in Theatre**

### **Master of Arts in Theatre**

This program is designed for those who desire to pursue advanced studies in Theatre as a means of enhancing their professional and academic careers. Specifically, the objectives of this Master's degree in Theatre are as follows:

1. Prepare students to teach theatre and theatre arts in the state of Texas and elsewhere;
2. Enable teachers currently employed to upgrade their skills, certifications and endorsements through graduate work;
3. Develop a program which will meet Texas Educational Theatre Association (TETA) and National Association of Schools of Theatre (NAST) standards;
4. Continue studies leading to the Doctor of Philosophy Degree.

#### **Scope**

The Master of Arts degree in Theatre is a broad-based program designed to provide the student exposure to the most up-to-date knowledge available in areas of Theatre studies such as literature, history, performance theory and criticism. The program concentrates primarily on theory and secondarily on performance.

#### **Admission to the Master of Arts Program in Theatre**

All students who wish to enroll in this graduate program must first meet the graduate admission requirements for this university. Application for admission to the university may be made by contacting the Office of Admissions and Records, UT Pan American. In addition, the Coordinator of the Graduate Program in the Communication Department must be supplied with the following information:

1. A copy of the Graduate Record Examination scores;
2. Official transcripts of all previous graduate and undergraduate academic coursework.

Applicants must hold a bachelor's degree or its equivalent from a college or university accredited by the regional accrediting association for the region in which the institution is located; have a 2.5 grade point average in upper-division work; 2.75 grade point average in upper-division work in theatre courses; and a 3.0 in graduate courses (if applicable). A GRE score of 600 or a minimum GMAT score of 350 is required. No special or specific requirements will be necessary for the program,

although some degree candidates may have to "level" (take undergraduate courses to prepare for graduate courses in the areas in which the students' undergraduate training is inadequate).

### Degree Requirements

Students may select 30 hours from among the following, of which 3 hours indicated are required. Only 6 hours of 5000 level courses will be applied to the degree.

- COMM 5304 Scriptwriting
- COMM 5311 Contemporary Drama
- COMM 5323 World Drama
- COMM 5615 Summer Theatre Workshop
- COMM 6300 Communication Research (Required)
- COMM 6340 Special Topics in Theatre History
- COMM 6341 Special Topics in Dramatic Literature
- COMM 6342 Dramatic Criticism
- COMM 6343 Performance Theory
- COMM 6344 Master Class in Theatrical Performance or Production
- COMM 7300 Thesis
- COMM 7301 Thesis

A 6-hour thesis is not required but strongly advised for students anticipating further graduate study. Students not selecting the thesis option may take 6 semester hours from designated or free electives approved by the student's graduate adviser.

A. Students must take COMM 6300.

B. Each student must include 6 hours of work outside the field, selected according to his or her individual needs and interests and with approval of the student's graduate adviser.

Core required for all students	3 sem. hrs.
Designated Electives	21 sem. hrs.
Free (non-Theatre) Electives	6 sem. hrs.
Other	6 sem. hrs.
1. Thesis =	6 sem. hrs.
or	
2. Free or Designated Electives =	6 sem. hrs.
TOTAL Semester Credit Hours	36 sem. hrs.

**Comprehensive Written Examination** — All candidates for the Master of Arts degree in Theatre will be required to pass comprehensive written and oral examinations encompassing the information and materials in Theatre and related coursework on the completion of at least 30 semester hours, but prior to completion of 36 semester hours, of graduate work toward a degree.

### Supporting Fields

Some existing programs and support areas at UT Pan American which would complement this program are as follows:

- a. graduate courses in English Literature, especially those relating to Dramatic Literature;
- b. graduate courses in Speech Communication and mass communication;
- c. graduate courses in Art or Music, if they are added to the curriculum and are courses relevant to the Theatre student.

These courses could be used to complete the requirement that 6 hours of the Master's program in Theatre be taken outside the students' major area of study. For teachers seeking certification, the 6 hours could be taken in their second teaching field. Theatre teachers most frequently have English or Speech Communication as the second teaching field. The 6-hour outside requirement would be met in an area that both the student and the adviser agree would be valid and useful for the student.

### Course Descriptions

Following each entry in the course inventory is a code which lists the concentration to which the course can be applied. If a course has two codes, it is cross-listed between concentration areas. The code is as follows:

- CO = Communication core
- SP = Speech Communication
- TH = Theatre
- JO = Journalism
- CD = Communication Disorders (Speech-Hearing Therapy)
- UC/GE = University College/General Education



Students must seek advisement from the Communication Department on a regular basis to discover when specific courses are to be scheduled and taught.

**COMM 1303 PRESENTATIONAL SPEAKING (SP) (UC/GE)**

Instruction and practice in speech preparation and delivery. Includes audience analysis, selecting and developing the topic, drafting the speech outline, arranging and intensifying the speech, use of visual aids and supporting materials, effective delivery techniques and speech evaluation. Stresses logical thinking as a basis for formulation of the communication message.

**COMM 1304 REPORTING I (JO)**

(Texas Common Course Number is COMM 2311.)

A study of news sources, newswriting and news values, including finding, gathering, evaluating and writing news for print, radio and television. The student newspaper is used as a laboratory for the course, with students submitting material to the newspaper.

**COMM 1305 ACTING I (TH)**

Improvisational acting techniques and the application of these principles to stage, television and film.

**COMM 1306 REPORTING II (JO)**

A continuation of COMM 1304, with increased emphasis on specialized types of news reporting. The student newspaper is used as a laboratory for this course. *Prerequisite: COMM 1304 ("C" average)*

**COMM 1307 INTERPERSONAL COMMUNICATION (SP)**

Instruction and activities in the principles of human communication and interaction. Includes self-concept, self-disclosure and risk, defensiveness, perception, empathy, semantics and abstraction, language, attitudes and behavior, nonverbal communication, listening and feedback, relational communication, assertiveness and conflict resolution.

**COMM 1310 ORAL INTERPRETATION (SP) (TH)**

Introduction and practice in the principles of speech as applied to the oral presentation of various literary forms. Includes prose and poetry, dramatic and duo-dramatic interpretation as well as storytelling.

**COMM 1313 FUNDAMENTALS OF SPEECH COMMUNICATION (SP) (UC/GE)**

Theory and application of the various elements of the speech communication process; through lecture, class discussion and active participation students have the opportunity to develop skills in specific types of communication behavior including listening, interviewing, small group interaction and public speaking.

**COMM 1315 SURVEY OF RADIO/TV BROADCAST/CABLE (JO)**

(Texas Common Course Number is COMM 1335.)

An overview of broadcasting and cablecasting; history, programming, regulations and financial structures. Commercial, educational and public radio and TV, both in the U.S. and around the world, will be covered with an emphasis on helping the student be a better-informed and more critical consumer.

**COMM 1323 SIGN LANGUAGE (DACTYLOLOGY) I**

Basic manual communication skills including the American Manual Alphabet; approximately 550 basic signs, and the history and place of manual communication in society.

**COMM 1333 SIGN LANGUAGE (DACTYLOLOGY) II**

Conventional manual communication introduced in the beginning course. Introduction to the more esoteric ideographic signs reflecting usage among different regional dialects; maximum skills for communicating with severely hearing impaired individuals. *Prerequisite: COMM 1323.*

**COMM 1387 SPEECH COMMUNICATION - HONORS PLAN (SP) (UC/GE)**

Theory and intensive application of various elements of the speech communication process. Through lecture, class discussion and active participation, students have the opportunity to develop skills in communication behavior including listening, interviewing, small group interaction, audio-visual aid use, and public speaking. Course substitutes for UC/GE option in Speech Communication. Credit may not be received for COMM 1387 and COMM 1313.

**COMM 1400 SPEECH IMPROVEMENT**

Analysis of student speech, concentrated drill on English speech sounds, bilingual language interference, language intonation patterns, and body movement. 3 hours lecture and 2 hours lab.

**COMM 1408 PHOTOGRAPHY (JO)**

An introduction to the techniques of taking photographs and the processes of developing, printing, enlarging, cropping and dodging. Journalism students cannot count these hours toward their major.

**COMM 1411 TECHNICAL PRODUCTION I (TH) (JO)**

Instruction and practice in the methods of construction, painting, rigging, shifting stage scenery and properties, as well as the application of these techniques to television production. 3 hours lecture and 3 hours arranged lab.

**COMM 1412 TECHNICAL PRODUCTION II (TH) (JO)**

A continuation of COMM 1411. Instruction and practical experience in production problems, including light and sound. 3 hours lecture and 3 hours arranged lab.

**COMM 1414 CHILDREN'S THEATRE WORKSHOP (TH)**

An intensive workshop course in which students will act as assistants in all aspects of the production of a major dramatic work which will be produced for children and which will embody the principles of dramatic production in form suitable for elementary school audiences.

**COMM 1615 SUMMER THEATRE WORKSHOP (TH)**

Designed to introduce beginning students to basic techniques of theatre staging through practical situations, this workshop requires students to participate in a series of productions for public viewing. Because of the intensive nature of this course, students are not allowed to take other studies or outside employment during their workshop enrollment period without permission of the instructor.

**COMM 1616 SUMMER TELEVISION WORKSHOP (JO)**

An intensive workshop course in which students are responsible for all aspects of the production of a major dramatic work which will be produced for television and which will embody the principles of dramatic production in television form.

**COMM 2101 PRACTICUM - THEATRE (TH)**

Participation in theatre programs sponsored by the department. One hour of credit requires a minimum of 60 hours of satisfactory participation, plus any additional requirements set by the adviser. May be repeated for credit a maximum of four times.

**COMM 2102 STAGE MOVEMENT (TH)**

Work on pantomime, special techniques and exercises designed to improve motor activity for stage purposes. Students are expected to provide practice clothes for the course. The class will meet three hours per week. May be repeated for credit a maximum of four times.

**COMM 2103 PRACTICUM - FORENSICS (SP)**

Participation in forensic programs sponsored by the department. One hour credit requires a minimum of 60 hours of satisfactory participation plus any additional requirements set by the adviser. May be repeated for credit a maximum of four times.

**COMM 2105 PRACTICUM - RADIO-TV-FILM (JO)**

Participation in radio-TV-film programs sponsored by the department. One hour credit requires a minimum of 60 hours of satisfactory participation plus any additional requirements set by the adviser. May be repeated for credit a maximum of four times.

**COMM 2106 PRACTICUM - SPEECH THERAPY (CD)**

Participation in speech therapy programs sponsored by the department. One hour credit requires a minimum of 60 hours of satisfactory participation plus any additional requirements set by the adviser. May be repeated for credit a maximum of four times.

**COMM 2302 COMMUNICATION THROUGH GROUP PROCESS (SP)**

Instruction and practice in group theory and technique. Includes principles and methods of discussion, interpersonal relations in groups, problem-solving and decision-making processes, conflict management in groups, sources and philosophies of group leadership, preparation of agendas, rules of order, and committee procedures and regulations.

**COMM 2306 ACTING II (TH)**

Intensive study of the techniques of building and developing a characterization.

**COMM 2309 INTRODUCTION TO SPEECH CORRECTION (CD)**

An introductory course in speech science designed for communication disorders majors, presenting normative information about the aerodynamic, acoustic, physiological production and perceptual processes underlying human communication.

**COMM 2312 THEATRE APPRECIATION (TH) (UC/GE)**

An introduction to the theatre, how to enjoy and understand plays, an appreciation and understanding of the various factors which make up a live theatre performance. Three hours lecture, one hour lab. Designed for non-majors.

**COMM 2313 READINGS IN DRAMATIC LITERATURE (TH)**

Critical review and analysis of selected classic plays from Greek antiquity to the present time, designed to clarify the nature and major achievements of western dramatic art. Can be counted as English or Communication.

**COMM 2320 RHETORICAL AND COMMUNICATION THEORY (SP)**

Comprehensive overview and analysis of the various significant theories of rhetoric and communication, with an historical grounding but emphasizing modern themes and perspectives. Rhetorical theorists to include I.A. Richards, Richard Weaver, Stephen Toulmin, Chaim Perelman, Kenneth Burke, Marshall McLuhan. Communication theorists to include Erving Goffman, Paul Watzlawick, Charles Osgood, Norbert Wiener, Alfred Korzybski, George Herbert Mead.

**COMM 2350 WRITING FOR THE MASS MEDIA (CO)**

Development of fundamental writing and fast-gathering skills for printing and electronic media. Students must pass skill tests of computer word processing, grammar, spelling and punctuation. Writing projects aid students in their understanding of the requirements of different fields of communication. Successful completion of this course with a grade of a "C" or better is prerequisite to all journalism courses.

**COMM 2387 THEATRE APPRECIATION (HONORS) (TH)**

An introduction to the theatre. Students are offered the opportunity to learn how to enjoy and understand plays, and are given the opportunity to gain an appreciation and understanding of the various factors which make up a live theatre performance. Designed for non-majors. Credit may be received for only one of COMM 2312 or COMM 2387. *Prerequisite: Admission to Honors Program or by permission of instructor.*

**COMM 2404 TELEVISION PRODUCTION (JO)**

Introduction to television studio operation with emphasis on television production. Covers cameras, microphones, lights, setting and performers. 3 hours lecture and 3 hours lab.

**COMM 2409 ACTING III (TH)**

Study of work with partners in scenes. Techniques of working in large and small group scenes, working for specificity of character and developing responsive and responsible rehearsal techniques. 2 hours lecture and 4 hours lab.

**COMM 2410 ACTING IV (TH)**

Working with particular acting problems, such as characterization in the musical, individuation in group scenes, commercials, supporting partners, et cetera. 2 hours lecture and 4 hours lab.

**COMM 2411 MAKE-UP (TH) (JO)**

A study of make-up for stage, film and television camera. Includes the study of make-up design and application and special effects make-up. Students must provide their own make-up for the course. 3 hours lecture and 3 hours lab.

**COMM 2412 COSTUMING (TH) (JO)**

A study of costume design and construction with emphasis on problems encountered in designing clothes for theatre, television and dance. 3 hours lecture and 3 hours lab.

**COMM 3301 RHETORIC OF TELEVISION (SP) (JO)**

A consideration of television and its pervasive influence upon contemporary social, political and cultural institutions. Course explores the forms of persuasion embedded in television and methods by which these rhetorical structures affect human perceptual systems and resulting human behavior.

**COMM 3302 SPEECH FOR STAGE AND SCREEN (TH) (JO)**

An intensive course in high quality diction for those planning to speak professionally on stage, TV, radio or film. Work on diction, foreign accents and dialects. Some voice work included.

**COMM 3304 ADVERTISING (JO)**

Principles of advertising as they are applied and used in radio, television, film, print media and theatre. Practice in writing advertising copy, layout and design.

**COMM 3305 EDITING (JO)**

A study of copy editing, headline writing and graphic designing for newspapers. Layout and design will be included in the course. Much of the coursework will be completed in the computer lab.

**COMM 3306 FEATURE WRITING (JO)**

Interpreting trends in reader appeal; analyzing feature story structure; finding ideas for gathering materials; writing and selling feature articles. *Prerequisite: COMM 1304.*

**COMM 3307 EDITORIAL WRITING AND INVESTIGATIVE REPORTING (JO)**

Determining editorial policies for print and broadcast media; studying the major types of editorial; writing editorials for particular purposes and different audiences; conducting investigations leading to significant news stories; analyzing and interpreting situations and timely events. *Prerequisite: COMM 1304.*

**COMM 3308 CREATIVE DRAMA (TH)**

A study of informal drama in its application to the elementary class room. Development of creativity through original dramatizations by children. Of special interest to the elementary teacher.

**COMM 3309 ADVANCED TECHNICAL PRODUCTION AND DESIGN (TH) (JO)**

Principles of design as applied to modern stage and television production.

**COMM 3310 LIGHTING FOR THE STAGE, FILM AND TV (TH) (JO)**

Problems of lighting design and execution as applied to the various media — stage, screen and television.

**COMM 3311 CONTEMPORARY DRAMA (TH)**

A study of trends and movements in 20th century American, British and European drama with emphasis on works of major playwrights. *Prerequisites: 12 semester hours of English (may be counted as ENG 3311).*

**COMM 3314 PERSUASIVE COMMUNICATION (SP) (JO)**

Persuasive techniques and rhetorical principles as they apply to verbal and nonverbal communication where the goal is social influence. In-class speeches and projects stress practical application of persuasive strategies. Persuasive characteristics of contemporary culture, structure and content of persuasive messages, source credibility, propaganda, ethics and role of attitudes, belief systems and values in persuasive communication.

**COMM 3315 COMMUNICATION IN HUMAN RELATIONS (SP)**

Application of the Speech Communication perspective as a dynamic process of human interaction. Significant issues and topics in interpersonal communication such as family communication, gender communication, social conflict and communication, confronting death through communication.

**COMM 3316 INTERCULTURAL COMMUNICATION (SP) (JO)**

Study of the symbolic and relativistic nature of culture and the resultant problems in attempting to communicate meaning across cultural lines.

**COMM 3317 SPEECH FOR THE ELEMENTARY TEACHER (SP) (CD)**

A study of communication acts in the elementary classroom which will afford the opportunity for the teacher to learn how to diagnose problems, assess communication skills, and teach techniques to enable the child to communicate more effectively. A projects course which includes a study of communication disorders, the phonetic alphabet, the child's self-image, assertiveness in the classroom, language, games to build vocabulary, critical listening, giving factual reports, storytelling, creative dramatics, playmaking and effective self expression.

**COMM 3319 SPEECH PATHOLOGY II (CD)**

Further investigation of communication disorders including aphasia, neurologically related disorders and physical anomalies. Emphasis on the multiple handicapped child. *Prerequisites: COMM 2309 and 2310.*

**COMM 3323 WORLD DRAMA (TH)**

Study of trends and movements in dramatic literature from ancient Greece through World War I. Emphasis on the works of major playwrights. *Prerequisite: 12 semester hours of English. (May be counted as ENG 3323.)*

**COMM 3324 CINEMATOGRAPHY/VIDEOGRAPHY (JO)**

Principles of single camera "film style" location video production. Using video equipment, students will produce short productions based on careful preproduction planning (scripting and storyboarding). Major stress on post-production editing and quality of finished product. 3 hours lecture, 1 hour lab.

**COMM 3325 MOTION PICTURE HISTORY AND SIGNIFICANCE (JO)**

Historical survey of motion pictures from 1890s to the present. Students will view, study, and review major motion pictures from various periods, noting important periods, styles, genres and movements in the dramatic film (including foreign films and TV). Viewing lab arranged.

**COMM 3330 ARGUMENTATION AND DEBATE (SP)**

Instruction and practice in the principles of argumentation and debate. Includes philosophies and concepts, forms of argument, analysis by issues and logical form, evidence and reasoning, positions of advocacy, refutation and rebuttal, cross-examination, ethics of argument and persuasion, and communication strategies in contemporary society. (Formerly COMM 2303.)

**COMM 3331 PRINCIPLES OF INTERVIEWING (SP) (JO)**

Theory, application and selected practice of the interview process in a variety of situations. Students have the opportunity to develop basic skills in selection, appraisal, counseling, discipline, exit, persuasive and focus interviews; interviews in mass-media contexts, in data analysis, and in other important techniques. Ethical guidelines stressed throughout.

**COMM 3332 COMMUNICATION AND ORGANIZATIONAL BEHAVIOR (SP)**

Communication as an aid in the development and maintenance of organizations. Stresses communication, management and organizational structure and theory. Includes interaction, motivation and leadership, developing human resources, managing change, and increasing organizational communication, performance and managerial effectiveness within organizations. (Formerly COMM 4306; may not be repeated for credit.)

**COMM 3340 COMMUNICATION DISORDERS (CD)**

Designed to acquaint the prospective teacher/public services student with various types of communication disorders and their etiologies, identification, basic intervention and remediation procedures. Recommended for individuals seeking teacher certification in social/behavioral sciences and special education.

**COMM 3350 RESEARCH IN COMMUNICATION (CO)**

Major methods of research used in the concentration areas of communication: speech communication, theatre arts and journalism/mass media. Each student is responsible for the successful completion of a research project. Required of all communication majors. (Replaces COMM 4303, 4324 and 4325. May not be repeated for credit.)

**COMM 3403 TELEVISION NEWS PRODUCTION AND REPORTING (JO)**

Methods of gathering facts, words and images, then developing them into professional video newscasts, including audio and video recording, editing, production, delivery and transmission, within the scope of standard electronic journalistic ethics and practices. *Prerequisites: COMM 1315 and 2404.*

**COMM 3412 ARTS MANAGEMENT AND PUBLICITY (TH) (JO)**

Basic principles of managing arts events or arts centers. Practical experience in publicity, release writing, box office management, program and poster production and public relations. 3 hours lecture, 3 hours lab.

**COMM 3420 AUDIOLOGY (CD)**

Basic orientation to audiology including physics of sound, anatomy and physiology of the hearing mechanism, pathology of hearing and evaluation of hearing which includes emphasis on pure tone and impedance audiometry. Three hours lecture and three hours lab. *Prerequisites: COMM 2309 and 2310.*

**COMM 3422 DIAGNOSTIC PROCEDURES (CD)**

Study of diagnostic techniques and specific testing instruments utilized in the evaluation of communication disorders in the bilingual child. *Prerequisites: COMM 2309, 2311 and 3321.*

**COMM 3623 PROFESSIONAL INTERNSHIP COOPERATIVE EDUCATION - THEATRE (TH)**

A planned program of half-time (20 hours per week) work, for a minimum of one semester or two continuous summer sessions, related to the field. Enrollment must be completed prior to the work period. Students should be classified as seniors. Credit will be determined on the basis of satisfactory employer's evaluation and the student's written report.

**COMM 3624 PROFESSIONAL INTERNSHIP - COOPERATIVE EDUCATION - SPEECH COMMUNICATION (SP)**

A planned program of half-time (20 hours per week) work, for a minimum of one semester or two continuous summer sessions, related to the field. Enrollment must be completed prior to the work period. Students should be classified as seniors. Credit will be determined on the basis of satisfactory employer's evaluation and the student's written report.

**COMM 3625 PROFESSIONAL INTERNSHIP - COOPERATIVE EDUCATION - PRINT MEDIA (JO)**

A planned program of half-time (20 hours per week) work, for a minimum of one semester or two continuous summer sessions, related to the field. Enrollment must be completed prior to the work period. Students should be classified as seniors. Credit will be determined on the basis of satisfactory employer's evaluation and the student's written report.

**COMM 3626 PROFESSIONAL INTERNSHIP - COOPERATIVE EDUCATION - RADIO-TV-FILM (JO)**

A planned program of half-time (20 hours per week) work, for a minimum of one semester or two continuous summer sessions, related to the field. Enrollment must be completed prior to the work period. Students should be classified as seniors. Credit will be determined on the basis of satisfactory employer's evaluation and the student's written report.

**COMM 3627 PROFESSIONAL INTERNSHIP-COOPERATIVE EDUCATION-ADVERTISING/  
PUBLIC RELATIONS**

A planned program of half-time (20 hours per week) work for a minimum of one semester or two continuous summer sessions, related to the field. Enrollment must be completed prior to work period. Credit will be determined on basis of employer's evaluation and student's written report.

**COMM 4101 PRACTICUM - THEATRE (TH)**

Participation in University Theatre activities or another theatre program approved by the instructor. 1 hour of credit requires a minimum of 60 hours of satisfactory participation, plus any additional requirements set by the instructor. May be repeated for credit a maximum of four times.

**COMM 4102 PRACTICUM - STAGE MOVEMENT (TH)**

Advanced study of movement on the stage for the actor. Students will provide practice clothes for the course. 1 hour credit requires a minimum of 60 hours satisfactory participation, plus any additional requirements set by the instructor. May be repeated for credit a maximum of four times.

**COMM 4103 PRACTICUM - FORENSICS (SP)**

Participation in the forensics program of the University. 1 hour of credit requires a minimum of 60 hours of satisfactory participation, plus any additional requirements set by the instructor. May be repeated for credit a maximum of four times.

**COMM 4105 PRACTICUM - RADIO-TV-FILM (JO)**

Participation in the Radio-TV-Film program of the University or any other Radio-TV-Film program approved by the instructor. 1 hour of credit requires a minimum of 60 hours of satisfactory participation plus any additional requirements set by the instructor. May be repeated for credit a maximum of four times.

**COMM 4106 PRACTICUM - SPEECH THERAPY (CD)**

Participation in the therapy clinic of the University or any other therapy program approved by the instructor. 1 hour of credit requires a minimum of 60 hours of satisfactory participation, plus any additional requirements set by the instructor. May be repeated for credit a maximum of four times.

**COMM 4301 DIRECTING I (TH) (JO)**

Study, observation and practice in selecting scripts and working with problems, methods, and techniques of direction and production. 2 hours lecture, 2 hours lab.

**COMM 4302 DIRECTING II (TH) (JO)**

A continuation of COMM 4301 with stress upon student direction and production of plays and television programs. 1 hour lecture, 4 hours lab.

**COMM 4304 SCRIPTWRITING FOR STAGE AND SCREEN (TH) (JO)**

Advanced level course in the arts and crafts of scriptwriting for stage and screen (motion picture and/or television). Course would be repeatable for credit with new work or work with different medium.

**COMM 4305 CHILDREN'S THEATRE (TH)**

Play selection, casting, direction and supervision of a children's theatre production. Students work in a children's production and each student is required to design a project for staging with youngsters. May be counted for credit as ED 4320.

**COMM 4307 CONTEMPORARY RHETORIC OF SOCIAL AND POLITICAL MOVEMENTS (SP) (JO)**

Rhetoric as an instrument of change within current political and social protest movements. Analysis of strategies and tactics of agitation and control. Study of pamphlets, speeches, underground publications, files, music, nonverbal symbols and body rhetoric. Includes such movements as the far right, new left, black power, Chicano movements and women's liberation.

**COMM 4308 SPECIAL PROBLEMS IN RHETORICAL CRITICISM (SP) (JO)**

Significant issues and topics in rhetorical criticism. Principles of criticism applied to political and social communication behavior. May be repeated once for credit.

**COMM 4313 MEDIA LAW AND ETHICS (JO)**

A thorough study of freedom of the press, libel, invasion of privacy, and the conflict between free press and fair trial. Other

legal cases and ethical standards are examined as conduct guides for mass communication.

**COMM 4314 ADVANCED TV/FILM PRODUCTION (JO) (TH)**

Advanced level course stressing the application of basic arts and media developed in COMM 2404 and making use of advanced students in directing, technical crafts, performance and scriptwriting. Repeatable for credit with new production. Course will alternate years between theatre-television.

**COMM 4315 HISTORY OF THE THEATRE I (TH)**

A thorough study of the history of theatre from its origins until the end of the Jacobean era.

**COMM 4316 HISTORY OF THE THEATRE II (TH)**

A thorough study of the history of theatre from the Restoration until the present.

**COMM 4321 PUBLIC RELATIONS (JO)**

Planning and preparation of publicity materials for media, application of public relations techniques, and clinical study of current public relations campaigns. Some laboratory work in the Communication Department.

**COMM 4326 PHOTOJOURNALISM (JO)**

Principles and practices of photo journalism. Topics include news photography and interrelationship with text. Participation in campus publications is encouraged. Students must furnish 35 mm camera and equipment. *Prerequisite: COMM 1408 or permission of instructor.*

**COMM 4327 HISTORY OF MASS MEDIA (JO)**

Study of the development of American journalism and mass media from colonial times to the present. Emphasis is on the role and influence of the media in the historical development of American society and culture, the contributions of important individual personalities associated with various media, technical advances in the print and electronic media, and the growth of the concept of freedom of the press.

**COMM 4330 COMMUNICATION CONSULTING AND TRAINING (SP)**

Study of the consultant's role in planning and implementing organizational communication diagnosis and change. Factors affecting the consultant-client relationship as well as ethical considerations will be highlighted. In addition, methods, techniques and practice in communication training programs and workshops will be addressed.

**COMM 4331 SENIOR SYNTHESIS SEMINAR IN SPEECH COMMUNICATION (SP)**

Students are provided the opportunity to integrate principles, ideas and information covered in lower and upper division Speech Communication coursework and to apply theories, research methods, and intervention techniques in various analytical and experimental situations. *Prerequisites: COMM 1301, 24 hours in Speech Communication, including 9 hours advanced.*

**COMM 4332 DESKTOP PUBLISHING (JO)**

Computer production of a department newsletter and magazine from writing, editing, and illustrating, using desktop publishing to lay out and design, including advertisements.

**COMM 4333 COMMUNICATION FOR THE SECONDARY TEACHER (SP) (TH) (JO)**

Methods of teaching Speech Communication, Journalism and Theatre in high school. Materials for intramural and interschool speech, theatre, and journalism activities in both junior and senior high schools. Particular attention is given to the UIL one-act play and the student newspaper and yearbook. Methods of training participants in these activities are emphasized.

**COMM 4334 ADVANCED PUBLIC RELATIONS (JO)**

A continuation of the initial course in Public Relations. Considerable class time will be devoted to public relations research, target audiences, laws affecting public relations practice and communication channels. Assignments will include an in depth study of a public relations agency. *Prerequisite: COMM 4321.*

**COMM 4335 ADVANCED ADVERTISING (JO)**

A continuation of advertising procedures. The study of various forms of advertising research techniques and retail advertising. Assignments include an in depth study of the modern full-service advertising agency. *Prerequisite: COMM 3304.*

**COMM 4410 AUDITORY AND VISUAL COMMUNICATION (CD)**

Methods and techniques utilized in the aural rehabilitation or habilitation of the acoustically handicapped. 3 hours lecture and 3 hours lab. *Prerequisite: COMM 3420.*

**COMM 4414 CHILDREN'S THEATRE WORKSHOP (TH)**

An intensive workshop course in which students are responsible for all aspects of the production of a major dramatic work which will be produced for children and which will embody the principles of dramatic production in form suitable for elementary school audiences.

**COMM 4417 RADIO AND TELEVISION ADVERTISING PRODUCTION (JO)**

Application of principles of advertising to production of radio and television commercials. 3 hours lecture and 3 hours lab.  
*Prerequisites: COMM 2404 and 3304.*

**COMM 4418 THEORY AND STYLES OF ACTING (TH)**

Techniques of period acting and exploration of major theories of acting techniques. 2 hours lecture and 4 hours lab.

**COMM 4419 PROBLEMS IN ACTING (TH)**

Acting techniques to adapt performance to varying situations such as large and small proscenium, film, television. Preparation of audition material and problems in developing range of characterization. 2 hours lecture and 4 hours lab.

**COMM 4615 SUMMER THEATRE WORKSHOP (TH)**

For the advanced undergraduate, experience in all areas of theatrical presentation. Students assume responsibility for one or more of the following areas: technical theatre production problems in acting and directing, theatre business management. Because of the intensive nature of this course students are not allowed to take other studies or outside employment during the workshop enrollment period without permission of the instructor.

**COMM 4616 SUMMER FILM AND TELEVISION WORKSHOP (JO) (TH)**

For the advanced undergraduate, an intensive workshop in which students are responsible for the production of a major dramatic work which will be produced for television and which will embody the principles of dramatic production in television form. Journalism students taking the course will produce a documentary concerning the production.

## Master of Arts in Communication Disorders

**COMM 6300 COMMUNICATION RESEARCH (CD) (SP) (TH)**

Major methods of research used in the various fields of communication. Each student is responsible for the successful completion of a research project.

**COMM 6302 COMMUNICATION OF BILINGUAL/BICULTURAL CHILDREN (CD)**

The study of Communication in the bilingual/bicultural child, and the effects of second language learning on the phonological, semantic, syntactic-morphologic, prosodic and pragmatic systems. Emphasizes language function as the rubric for attaining communicative competence in second as well as first language usage.

**COMM 6305 STUTTERING (CD)**

The study of various theories, research findings, rationales and methodologies for therapies for stuttering in children and adults. Observation of stuttering behavior and methods of remediation. *Prerequisites: COMM 2309, 2311 or equivalent and Graduate Standing.*

**COMM 6306 BEHAVIOR MODIFICATION IN SPEECH PATHOLOGY (CD)**

In-depth study of theories of behavior as they relate to and underlie speech and hearing remediation procedures. Participation in advanced clinical activities with applications of theoretical concepts to various communication disorders.

**COMM 6307 ARTICULATORY DISORDERS (CD)**

An in-depth examination of speech development including psycholinguistic and sociolinguistic considerations. Includes various descriptions of phonological development for bilingual bicultural children and management procedures for these disorders.

**COMM 6308 LANGUAGE DISORDERS IN ADULTS (CD)**

An in-depth study of adult language disorders associated with emotional problems, mental retardation, neuromotor dysfunction, brain injury, and bilingual/bicultural factors. Includes diagnostic, appraisal, and intervention strategies for these disorders.

**COMM 6310 VOICE DISORDERS (CD)**

A study of strategies for prevention and remediation of voice disorders in children and adults. Special emphasis upon specific bilingual/bicultural factors influencing potential voice problems and normal voice use.



**COMM 6311 SEMINAR IN COMMUNICATION DISORDERS (CD)**

The study of principles, methods, and procedures for communication disorders. Subject matter varies from semester to semester, so that specific communication problems may be studied in depth by a group. May be repeated when subject matter changes. Maximum credit: 6 hours. *Prerequisite: Graduate Standing and 12 hours of graduate studies in Communication Disorders.*

**COMM 6313 AUGMENTATIVE MEANS OF COMMUNICATION (CD)**

The study of procedures and methodologies for identifying and prescribing augmentative communicative approaches for children or adults in need of alternatives for oral communication. Special attention is directed to bilingual issues, hearing impairment, developmental problems of children, and closed head injury.

**COMM 6314 SEMINAR IN AUDIOLOGY (CD)**

Principles, methods, and procedures for diagnostic audiological measurement, and/or aural habilitation/rehabilitation. Subject matter varies from semester to semester, so that specific theories, measurement, or management techniques or methodologies for use with hearing-impaired persons may be studied in depth by a group. May be repeated when subject matter changes. Maximum credit: 6 hours. *Prerequisites: Graduate standing and 12 hours of graduate studies in Communication Disorders.*

**COMM 7600 THESIS: COMMUNICATION DISORDERS (CD)**

Research and writing of the thesis. (3-6 credits)

## **Master of Arts in Speech Communication**

**COMM 6300 COMMUNICATION RESEARCH (SP) (TH) (CD)**

Major methods of research used in the various fields of communication. Each student is responsible for the successful completion of a research project.

**COMM 6320 SEMINAR IN RHETORICAL & COMMUNICATION THEORY (SP)**

Study of the major developments in rhetorical and communication theory. Emphasis on philosophic bases of rhetorical and communication theories and their relationship to social, political and cultural settings.

**COMM 6321 SEMINAR IN COMMUNICATION EDUCATION (SP)**

Advanced studies in historical and contemporary theories and problems in speech communication pedagogy. Emphasis on multicultural and international education.

**COMM 6322 CULTURE AND COMMUNICATION (SP)**

Study of the relationship between culture and communication with emphasis given to social, psychological, linguistic and nonverbal problems in and the development of strategies for the practice of intercultural and international communication.

**COMM 6323 SEMINAR IN INTERPERSONAL COMMUNICATION (SP)**

Current theories and research in interpersonal communication. Emphasis on symbolic interaction approaches to interpersonal communication and performance-centered theories of interpersonal communication.

**COMM 6324 SEMINAR IN ORGANIZATIONAL COMMUNICATION (SP)**

Theories and models of communication in organizations, design and management of organizational communication systems. *Prerequisite: Graduate standing.*

**COMM 6325 SEMINAR IN GROUP COMMUNICATION (SP)**

Study of theory and research in the dynamics of small group communication processes with emphasis on the interaction of message variables with other variables such as leadership affiliation, cohesiveness, power, climate.

**COMM 6326 SEMINAR IN NONVERBAL COMMUNICATION (SP)**

Review and analysis of theory and research in nonverbal communication, including relationship of nonverbal communication to oral communication. Emphasis on intercultural and international nonverbal communication.

**COMM 6327 SEMINAR IN CONTEMPORARY RHETORICAL THEORY AND CRITICISM (SP)**

May be repeated for credit when topics vary. Topics include rhetorical dimensions of media, issues in freedom of speech, and methodologies of rhetorical criticism. *Prerequisite: Graduate standing.*

**COMM 6328 APPLIED RESEARCH (SP)**

Directed research in speech communication leading to the presentation of results in either a formal paper or article submitted

to the department and to either a professional association or journal for dissemination among disciplinary peers. *Prerequisites: Graduate standing, COMM 6300 and consent of the instructor.*

**COMM 6360 HISTORICAL STUDIES IN MASS MEDIA (SP)**

Historical study of cultural, legal, and technical movements in print, broadcasting and recorded mass media. (May be repeated for credit when topics vary.)

**COMM 6361 GENRE STUDIES IN FILM AND VIDEO (SP)**

Examination of genre classifications of entertainment and documentary forms of mass media. (May be repeated for credit when topics vary.)

**COMM 7302 THESIS: SPEECH COMMUNICATION**

Preparation, completion and submission of an acceptable thesis in partial fulfillment of the requirements of the masters degree.

**COMM 7303 THESIS: SPEECH COMMUNICATION**

Preparation, completion and submission of an acceptable thesis in partial fulfillment of the requirements of the masters degree.

## **Master of Arts in Theatre**

**COMM 5304 SCRIPTWRITING (TH)**

Advanced level course in the art and craft of scriptwriting for stage and screen (motion pictures and/or television). The course is repeatable for credit with new work or work with a different medium.

**COMM 5311 CONTEMPORARY DRAMA (TH)**

Trends and movements in current American, British and European theatre arts, with emphasis on the works of American playwrights.

**COMM 5323 WORLD DRAMA (TH)**

Study of trends in dramatic literature from ancient Greece through World War I. Emphasis on the works of major playwrights. *Prerequisite: 12 semester hours of English. (May be counted as English 5323.)*

**COMM 5615 SUMMER THEATRE WORKSHOP (TH)**

Experience in all areas of theatrical presentation. Students assume responsibility for one or more of the following areas: technical theatre, production problems in acting and directing, and theatre business management. Because of the intensive nature of this course, students must have prior permission of the instructor before taking other studies or outside employment during the workshop period.

**COMM 6300 COMMUNICATION RESEARCH (TH) (SP) (CD)**

Major methods of research used in the various fields of communication. Each student is responsible for the successful completion of a research project.

**COMM 6340 SPECIAL TOPICS IN DRAMATIC LITERATURE (TH)**

An intensive examination of the literature of a particular period, playwright, or movement. May be counted for credit two times as the topic changes.

**COMM 6341 SPECIAL TOPICS IN THEATRE HISTORY (TH)**

An intensive examination of a particular historical period, movement, or theory. May be counted for credit two times as the topic changes.

**COMM 6342 MASTER CLASS IN THEATRICAL PERFORMANCE OR PRODUCTION (TH)**

Intensive examination and execution of production techniques associated with a particular practitioner or movement. May be counted for credit two times as topic changes.

**COMM 6343 PERFORMANCE THEORY (TH)**

Intensive comparative study of major performance theories, with special emphasis on the contemporary American and European theatre. May be counted for credit two times as topic changes.

**COMM 6344 DRAMATIC CRITICISM (TH)**

History and principles of dramatic literary analysis and criticism.

## Department of Criminal Justice

*Linda O'Daniel, Chair*

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### Full-time Faculty

- Dearth, Daniel K. (PhD, Sam Houston State University, 1984), Associate Professor, Police Administration, Correctional Administration, Policing Issues, Criminal Procedures and Evidence.
- Ethridge, Philip (PhD, Sam Houston State University, 1990), Assistant Professor, Criminal Justice Generalist, Police-Community Relations, Privatization, Corrections Law.
- Dr. R. Haghighi (PhD, Sam Houston State University, 1985), Assistant Professor, Criminal Justice Generalist, Corrections, Research Methods, Terrorism.
- O'Daniel, Linda J. (MA, Sam Houston State University, 1974), Assistant Professor and Chair, Correctional Systems, Probation, Parole, Juveniles and Counseling.
- Sorensen, Jonathan R. (PhD, Sam Houston State University, 1990), Assistant Professor, Research Methods, Criminology, Corrections, Comparative Criminal Justice, Juvenile Justice.

The Department of Criminal Justice prepares the student to enter such careers as law enforcement, probation, parole, institutional corrections, youth services, and police management at all levels of government. The well-rounded academic experience provided by the Department of Criminal Justice serves as a strong foundation for those students interested in graduate study in the social sciences.

The Department of Criminal Justice is one of the largest in Texas and enjoys an excellent reputation. Graduates have been successfully placed in agencies at all levels of government in addition to pursuing graduate work.

A Criminal Justice minor is also available to supplement the academic experience of students majoring in political science, sociology, psychology, business and related disciplines.

Students interested in a Criminal Justice career may select one of two majors: (1) Police Administration or (2) Corrections. For further information on the requirements of these majors, please contact the department, 381-3566. (All degree requirements are in addition to the University College/General Education Requirements.)

## Degree Requirements

### Major: Corrections

The Bachelor of Science Degree in Corrections is designed to prepare students to enter a career in adult and juvenile corrections whether at institutions, probation, parole, or other forms of community-based correctional treatment. The Criminal Justice degree in Corrections is normally a four-year degree program requiring 126 semester hours. The Corrections major is broadfield, requiring 66 semester hours from the course lists below.

At least 45 semester hours in the major must be advanced (3000-4000 level). A minor is not required, but one can be earned at the student's discretion.

Among the unique elements of this degree program are contemporary coursework in Corrections, flexibility to tailor courses to a student's career interests, and incorporation of both interdisciplinary and social science support courses.

#### *Criminal Justice Core Courses (14 hours):*

- CRIJ 1301 Introduction to the Criminal Justice System
- CRIJ 3303 Nature of Crime
- CRIJ 3402 Current Literature and Research in Criminal Justice
- CRIJ 4401 Practicum Field Experience

#### *Corrections Concentration Courses (19 hours):*

- CRIJ 2303 Juvenile Justice System
- CRIJ 2342 Correctional Systems and Practices
- CRIJ 3331 Legal Aspects of Corrections
- CRIJ 3345 Correctional Administration

- CRIJ 4441 Correctional Casework and Counseling
- CRIJ 4343 Seminar of Issues in Corrections

*Criminal Justice Electives [Choose four courses (12 hours) of which 6 hours must be advanced]:*

- CRIJ 2301 Crime in America
- CRIJ 2331 Fundamentals of Criminal Law
- CRIJ 2332 Legal Aspects of Law Enforcement
- CRIJ 2333 The Courts and Criminal Procedure
- CRIJ 3341 Probation and Parole
- CRIJ 3344 Interviewing Techniques & Processes for Correctional Agencies
- CRIJ 4361 International Study of Crime and Justice
- CRIJ 4362 Special Topics in Criminal Justice\*
- CRIJ 4363 Directed Readings and Independent Studies in Criminal Justice\*
- CRIJ 4402 Specialized Internship for Criminal Justice

\*CRIJ 4362 and CRIJ 4363 may each be taken twice for credit.

*Social Science Support Courses (12 hours):*

Choose one course from each group:

*Group 1 (Sociology, 3 hours)*

- SOC 1313 Principles of Sociology
- SOC 1323 Current Social Issues

*Group 2 (Psychology, 3 hours)*

- PSY 1323 General Psychology
- PSY/SOC 2324 Social Psychology

*Group 3 (Political Science, 3 hours)*

- POLS 4321 American Constitutional Law: Civil Liberties
- POLS 4367 American Judicial Process

*Group 4 (Sociology, 3 hours)*

- SOC 3313 Criminology
- SOC 3333 Urban Sociology
- SOC 3353 Juvenile Delinquency
- SOC 4313 American Minorities
- SOC 4314 Sociology of Deviance
- SOC 4323 The Mexican-American People
- SOC 4380 Social Protest and Social Movement

*Interdisciplinary Support Courses (9 hours):*

Choose any three courses from one of the course groups below. (NOTE: It is recommended that the student consider enrolling in the remaining courses in the selected group as free electives.)

*Group A — Interpersonal Relations*

- ANTH 1323 Introduction to Cultural Anthropology
- COMM 1307 Interpersonal Communication
- PSY/SOC 2301 Statistics for the Behavioral Sciences
- PSY/SOC 2324 Social Psychology
- PSY 3305 Behavior Management and Modification
- PSY 3343 Tests and Measurements in Psychology
- PSY 4313 Abnormal Psychology
- PSY 4333 Theories of Personality
- SOC 2333 Marriage and Family
- SOC 4352 Social Inequality

*Group B — Health and Social Services*

- HE 2371 Health Problems in the use of Alcohol, Tobacco, and Narcotics
- PSY 2340 Psychology of Substance Abuse
- PSY/SOC 2324 Social Psychology
- SOC 3324 Sociology of Health
- PSY/SOC 3326 Contemporary Issues in Social Psychology

SOC 3393 Sociology of Aging  
SOCW 1313 Introduction to Social Work  
SOCW 2324 Human Behavior and the Social Environment II  
SOCW 3314 Social Welfare Policy and Programs

### **Major: Police Administration**

The Bachelor of Science degree in Police Administration is designed to prepare students to enter a career in law enforcement at any level of government. The Criminal Justice degree in Police Administration is normally a four-year degree program requiring 125 semester hours. The Police Administration major is broadfield, requiring 65 semester hours from the course list below. At least 45 semester hours in the major must be advanced (3000-4000 level). A minor is not required. However, one can be earned at the student's discretion.

Among the unique elements of this degree program are contemporary coursework in Police Administration, flexibility to tailor courses to a student's career interests, and incorporation of both interdisciplinary and social science support courses.

### **Texas Police Officer Academic Licensing Eligibility Program**

Those students interested in a career in state, county or local law enforcement may avail themselves of this program. When completed, students are eligible to take the Texas State Peace Officer's Licensing Examination. Under the Peace Officer Academic Certification Program, students must successfully complete the Criminal Justice Transfer Curriculum (Law Enforcement Emphasis) and the Texas Peace Officer Sequence. The Criminal Justice Transfer Curriculum for Law Enforcement consists of the following courses: CRIJ 1301, 1313, 2301, 2323, 2331, and 2333. The Texas Peace Officer Sequence consists of the following skills courses which are to be taken at a state licensed police academy: Texas Peace Officer Law, Texas Peace Officer Procedures, and Texas Peace Officer Skills. The Criminal Justice Transfer Curriculum courses can be used to meet the degree requirements for Police Administration majors.

#### *Criminal Justice Core Courses (14 hours):*

CRIJ 1301 Introduction to the Criminal Justice System  
CRIJ 3303 Nature of Crime  
CRIJ 3402 Current Literature and Research in Criminal Justice  
CRIJ 4401 Practicum Field Experience

#### *Police Administration Concentration Courses (18 hours):*

CRIJ 1313 Police Systems and Practices  
CRIJ 2331 Fundamentals of Criminal Law  
CRIJ 2332 Legal Aspects of Law Enforcement  
CRIJ 4311 Advanced Police Organization and Administration  
CRIJ 4312 Principles of Law Enforcement Supervision  
CRIJ 4313 Seminar of Issues in Law Enforcement

#### *Criminal Justice Electives [Choose 4 courses (12 hours) of which 6 hours must be advanced]:*

CRIJ 2301 Crime in America  
CRIJ 2303 Juvenile Justice System  
CRIJ 2304 Police-Community Relations  
CRIJ 2323 Criminal Investigation  
CRIJ 2333 The Courts and Criminal Procedure  
CRIJ 4361 International Study of Crime and Justice  
CRIJ 4362 Special Topics in Criminal Justice\*  
CRIJ 4363 Directed Readings and Independent Studies in Criminal Justice \*  
CRIJ 4402 Specialized Internship for Criminal Justice

\*CRIJ 4362 and CRIJ 4363 may each be taken twice for credit.

#### *Social Science Support Courses (12 hours):*

Choose one course from each Group:

##### *Group 1 — (Sociology, 3 hours)*

SOC 1313 Principles of Sociology  
SOC 1323 Current Social Issues

##### *Group 2 — (Psychology, 3 hours)*

PSY 1323 General Psychology  
PSY/SOC 2324 Social Psychology

*Group 3 — (Political Science, 3 hours)*

POLS 4321 American Constitutional Law: Civil Liberties  
POLS 4367 American Judicial Process

*Group 4 — (Sociology, 3 hours)*

SOC 3313 Criminology  
SOC 3333 Urban Sociology  
SOC 3353 Juvenile Delinquency  
SOC 4313 American Minorities  
SOC 4314 Sociology of Deviance  
SOC 4323 The Mexican-American People  
SOC 4380 Social Protest and Social Movement

*Interdisciplinary Support Courses (9 hours):*

Choose any **three** courses from one of the course groups below. (NOTE: It is recommended that the student consider enrolling in the remaining courses in the selected group as free electives.)

*Group A — General Management and Personnel Administration*

CIS 1301 Computer Systems and Basic Programming  
MANA 3332 Human Relations in Management  
MANA 3361 Principles of Management  
MANA 3362 Personnel Management  
MANA 4361 Human Behavior in Organization

*Group B — Accounting*

ACC 2421 Introduction to Finance Accounting  
ACC 2329 Fundamentals of Managerial Accounting  
ECO 1301 Introduction to Economics  
ECO 2353 Principles of Economics: I  
ECO 2354 Principles of Economics: II  
FINA 3390 Public Finance  
MANA 3361 Principles of Management

*Group C — Labor Management and Public Administration*

FINA 3390 Public Finance  
MANA 3332 Human Relations in Management  
MANA 3365 Wage and Salary Administration  
MANA 4361 Human Behavior in Organization  
POLS 3323 Introduction to Public Administration  
POLS 3324 Government Organization and Administrative Theory  
POLS 4365 American Administrative Process

*Group D — Community Services and Interaction*

PSY 3373 Sensation and Perception  
PSY 4313 Abnormal Psychology  
PSY 4333 Theories of Personality  
PSY/SOC 2324 Social Psychology  
SOC 3333 Urban Sociology  
SOCW 2324 Human Behavior and the Social Environment II  
SOCW 3314 Social Welfare Policy and Programs

**Minor in Criminal Justice**

The minor in Criminal Justice is directed toward those students whose primary academic expertise could benefit from a specified concentration of Criminal Justice coursework.

19 semester hours of Criminal Justice, 10 hours of which must be advanced (3000 or 4000 level); must include CRIJ 1301 and CRIJ 3402.

## Course Descriptions

### Criminal Justice

#### **CRIJ 1301 INTRODUCTION TO THE CRIMINAL JUSTICE SYSTEM**

(Texas Common Course Number is CRIJ 1301.)

The history, development and philosophy of the criminal justice system; an overview of law enforcement, courts, and corrections subsystems.

#### **CRIJ 1313 POLICE SYSTEMS AND PRACTICES**

(Texas Common Course Number is CRIJ 2328.)

The police profession; organization of law enforcement systems; the police role; police discretion; current and future issues. (Formerly: CRIJ 1312 Police Organization and Administration, credit cannot be received for both.)

#### **CRIJ 2301 CRIME IN AMERICA**

(Texas Common Course Number is CRIJ 1307.)

American crime problems in historical perspective; social and public policy factors affecting crime; crime impact and trends; social characteristics of specific crimes; prevention of crime. (Formerly CRIJ 3361 Crime and Justice in America.)

#### **CRIJ 2303 JUVENILE JUSTICE SYSTEM**

(Texas Common Course Number is CRIJ 1313.)

An overview of the nature of juvenile delinquency; the theory and practice of juvenile courts; juvenile case law; juvenile crime prevention; treatment of juvenile offenders; juvenile justice system.

#### **CRIJ 2304 POLICE - COMMUNITY RELATIONS**

(Texas Common Course Number is CRIJ 2326.)

A study of the problems involving law enforcement agencies and the community; the philosophy of community action groups and boards; theories regarding police involvement in community projects and the principles and techniques used in establishing a proper law enforcement - community relationship; principles and techniques of crime prevention and various approaches to crime prevention programs.

#### **CRIJ 2323 CRIMINAL INVESTIGATION**

(Texas Common Course Number is CRIJ 2314.)

An introduction and analysis of current criminal investigation procedures; philosophy of the crime scene investigation; an advanced study of important areas involved in criminal investigation; such as proper handling of physical evidence, arrest, search and seizure, hearings, and probable cause, a discussion of techniques involved in drug and narcotic investigations.

#### **CRIJ 2331 FUNDAMENTALS OF CRIMINAL LAW**

(Texas Common Course Number is CRIJ 1310.)

A study of the nature of criminal law; philosophical and historical development; major definitions and concepts; classification of crime; elements of crime and penalties using Texas statutes as illustrations; criminal responsibility. (Formerly: Legal Aspects of Law Enforcement).

#### **CRIJ 2332 LEGAL ASPECTS OF LAW ENFORCEMENT**

(Texas Common Course Number is CRIJ 2323.)

Police authority; responsibilities; constitutional restraints; laws of arrest, search and seizure; police liability. (Formerly: Criminal Evidence and Procedure.)

#### **CRIJ 2333 THE COURTS AND CRIMINAL PROCEDURE**

(Texas Common Course Number is CRIJ 1306.)

The judiciary in the criminal justice system; structure of American court system; prosecution's right to counsel; pre-trial release; grand juries; adjudication process; types and roles of evidence; sentencing.

#### **CRIJ 2342 CORRECTIONAL SYSTEMS AND PRACTICES**

(Texas Common Course Number is CRIJ 2313.)

Corrections in the criminal justice systems; correctional role; institutional operations, alternatives to institutionalization; treatment and rehabilitation; current and future issues. (Formerly: CRIJ 3342, Overview of Correctional Philosophies. Credit cannot be received for both courses.)

#### **CRIJ 3303 NATURE OF CRIME**

Provides an overall perspective of the crime problem with special emphasis given to philosophical and theoretical ideas

pertaining to crime causation and its control. Includes victimology and criminal typologies.

**CRIJ 3331 LEGAL ASPECTS OF CORRECTIONS**

Legal problems and principles from conviction to release. To include consideration of convictions, imprisonment, sentencing, conditional release, post conviction procedures, prisoner rights, probationers rights and validity of conviction.

**CRIJ 3341 PROBATION AND PAROLE**

The philosophy, history and principles of probation, parole and other community-based treatment programs; philosophy of punishment and rehabilitation; trends, practices and current research in probation and parole, including methods of analysis, selection and prediction.

**CRIJ 3344 INTERVIEWING TECHNIQUES AND PROCESSES FOR CORRECTIONAL AGENCIES**

Addresses techniques and interaction involved in the face-to-face interview; knowledge of behavioral reactions; development of an awareness of likely responses to the behavior of the interviewer; and interview techniques for pre-sentence investigations, classification, supervision and related correctional tasks.

**CRIJ 3345 CORRECTIONAL ADMINISTRATION**

Fundamental concepts of management, organization, and administration as specifically applicable to correctional institutions, field services and community-based corrections. (Formerly CRIJ 2344. Credit cannot be received for both courses.)

**CRIJ 3402 CURRENT LITERATURE AND RESEARCH IN CRIMINAL JUSTICE**

A review of current literature and examination of selected problems affecting the criminal justice system; instruction of steps involved in the scientific approach to problem solving. Discussion of research techniques and paper writing; applications of research in criminal justice.

**CRIJ 4311 ADVANCED POLICE ORGANIZATION AND ADMINISTRATION**

In-depth discussion of organizational and administrative theory; comparative discussion of philosophies utilized in business and public administration with potential relationships to police organizations; methodology of societal trends affecting criminal justice administration.

**CRIJ 4312 PRINCIPLES OF LAW ENFORCEMENT SUPERVISION**

An examination of the principles involved in law enforcement supervision; principles of leadership in dealing with people; psychology involved in handling grievances and in building morale; duties and responsibilities of command-level personnel; law enforcement budgeting procedures, supervisory problems and responsibilities relating to discipline and internal affairs investigations.

**CRIJ 4313 SEMINAR OF ISSUES IN LAW ENFORCEMENT**

Analysis and discussion of contemporary issues in policing with particular attention to current developments, service delivery, and the changing police role. Integration of established scientific knowledge with practical police experiences in various areas of policing.

**CRIJ 4343 SEMINAR OF ISSUES IN CORRECTIONS**

Analysis and evaluation of contemporary correctional systems; discussion of recent research concerning correctional institutions and various corrections field services. Emphasis is given to both administrative and treatment concern in corrections.

**CRIJ 4361 INTERNATIONAL STUDY OF CRIME AND JUSTICE**

This is an upper division course elective. The course's primary goal is to introduce students to the idea of a world criminal justice system. Several countries will be selected each semester. A survey of the criminal justice systems (government, police, judiciary, laws, corrections, and juvenile justice) will be conducted of each of the countries.

**CRIJ 4362 SPECIAL TOPICS IN CRIMINAL JUSTICE**

Designed to give advanced undergraduate student academic flexibility and opportunity to study contemporary issues in crime and criminal justice. May be retaken once for credit upon approval of the Director of the Criminal Justice Program.

**CRIJ 4363 DIRECTED READINGS AND INDEPENDENT STUDIES IN CRIMINAL JUSTICE**

Designed for advanced students who are capable of independent study and research to examine an issue or project of specific interest. Registration upon approval of the Director of the Criminal Justice Program and the professor directing the course. May be retaken once for credit upon approval.

**CRIJ 4401 PRACTICUM-FIELD EXPERIENCE**

Three hours per week learning job interview techniques and resume writing. Placement in a Criminal Justice Agency or



related experience for on-the-job training for a minimum of 120 hours. Evaluation of student and agency critiques, daily logs and a weekly meeting with the intern coordinator.

#### **CRIJ 4402 SPECIALIZED INTERNSHIP FOR CRIMINAL JUSTICE**

This course consists of an Internship under special curricular conditions. The Internship may involve compensated support for agency work under special instructional programs, cooperative education, research internships, or other specialized experiential learning. *Prerequisite: CRIJ 4401 and Consent.*

#### **CRIJ 4441 CORRECTIONAL CASEWORK AND COUNSELING**

Examines the role and techniques of casework in corrections with emphasis on the integration of casework and counseling responsibilities and procedures. Includes examination of therapeutic techniques and processes in various correctional settings and the study of service delivery programs tailored to the specific needs of correctional clients. This course requires a minimum of 30 hours of casework experience in addition to regular coursework. (Formerly CRIJ 4341, credit cannot be received for both courses.)

**NOTE:** The entire course inventory is not offered each semester. Students are advised to plan ahead when making decisions about their semester schedules.

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## **Department of Curriculum and Instruction — Elementary and Secondary**

*Dr. Ricardo Perez, Chair*

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#### **Full-time Faculty**

Dowell, Nancy (MEd, East Texas State University, 1967), Assistant Professor, Elementary, Early Childhood, Kindergarten (Post Master's, East Texas State) Early Childhood.

Kieff, Judith (EdD, Oregon State University, 1990), Assistant Professor, Early Childhood/Elementary Education, Early Childhood - Learning Disabilities, Adult Education, and Human Development and Family Studies.

McBride, John (EdD, University of Houston, 1977), Professor, Elementary, Science Education, Mathematics Education.

Medrano, Hilda (PhD, The University of Texas at Austin, 1985), Associate Professor, Curriculum and Instruction, Reading and Language Arts.

Morse, Kevin (PhD, The University of Texas at Austin, 1969), Professor, Curriculum and Instruction, Social Science, Administration and Supervision.

O'Neil, Ernest (PhD, University of Pittsburgh, 1974), Professor, International and Development Education.

Perez, Ricardo (PhD, University of Michigan, 1979), Associate Professor, Curriculum and Instruction, Bilingual Education and Social Sciences.

Reeve, Robert (PhD, Florida State University, 1965), Professor, Science Education, Biology, Educational Research, Curriculum and Instruction.

Solis, Juan (EdD, University of Houston, 1977), Associate Professor, Curriculum and Instruction, Spanish, Reading, Social Sciences.

Tevis, Martha (PhD, The University of Texas at Austin, 1967), Professor, History and Philosophy of Education (Cultural Foundations of Education and Latin).

Valerio, Mary (PhD, University of New Mexico, 1990), Assistant Professor, Bilingual Special Education.

#### **Admission to Teacher Education Program**

A student must apply for admission to the Teacher Education Program during the semester in which the student will have earned 60 semester credit hours. An application for admission must be filed with the undergraduate adviser in the School of Education and the following admission requirements must be met prior to admission into the Teacher Education Program:

#### **Requirements for Admission to Teacher Education Program**

1. Passing scores on all three subtest areas of the Texas Academic Skills Program (TASP) test with the following minimum scores in each area:
  - a. Reading 220
  - b. Mathematics 220
  - c. Writing 220

2. Completion of a minimum of 60 earned semester credit hours which must include the following:
  - a. English 1301 with a "C" or better English 1302 with a "C" or better
  - b. Math 1340 with a "C" or better
3. A 2.25 grade point average (GPA) for the 60 earned semester credit hours.

A Baccalaureate Degree in Interdisciplinary Studies was implemented in Fall 1989 for students seeking state certification in Elementary Education. In compliance with *Texas Education Code*, Sections 13.036 to 13.039 and the *1987 Standards on Teacher Education*, the following specializations and delivery systems are offered:

#### **Specializations**

Art  
 Biology  
 English  
 Health  
 History  
 Mathematics  
 Music  
 Kinesiology  
 Reading  
 Spanish

#### **Delivery Systems**

Bilingual Education  
 Generic Special Education  
 Early Childhood

In addition, endorsements to State teacher certifications are offered in Bilingual Education, English as a Second Language, Early Childhood, and Information Technology.

Provisional teacher certification at the secondary level is offered in the following teaching fields and delivery systems:

#### **Teaching Fields**

Art  
 Biology  
 Chemistry  
 Computer Information Systems  
 Earth Science  
 English  
 Government  
 Health  
 History  
 Journalism (Print)  
 Kinesiology  
 Mathematics  
 Music  
 Physical Science  
 Physics  
 Psychology  
 Reading  
 Social Studies Composite  
 Sociology  
 Spanish  
 Speech Communication  
 Theatre Arts

#### **Delivery Systems**

Generic Special Education

All-level provisional teacher certification is offered in Art, Music and Kinesiology. Specific requirements for all certification programs at the secondary level may be located within program descriptions under individual departments located throughout this catalog.

## UC/GE Requirements for Teacher Education Certification

Students pursuing teacher certification must enter under those programs prescribed by the standards for teacher education. Prospective teacher education students should consult with their major advisers and the appropriate department in the School of Education.

Students pursuing teacher certification at the elementary level are required to take the following courses in the UC/GE requirements as specified by the State Board of Education, The Texas Education Agency, and the Texas Higher Education Coordinating Board:

English 1301, 1302 (Grade of "C" or better in both)

Sophomore English Literature — 6 sem. hrs.

Language Other Than English — 6 sem. hrs.

(Spanish Required for Bilingual Delivery System)

Communication 1313

Math 1340 (Certification)

Laboratory Science — 8 sem. hrs. in the same science (Biology or Physical Science)

Computer Science 1300 or CIS 1301

History 2313, 2314

Political Science 2313, 2314

Kinesiology - 4 sem. hours (two 2-hour activity courses)

6 semester hours from two areas:

Art 1301, 3381

Music 2307, 2308, 3311

6 semester hours from two of the following four areas:

Anthropology 1323, 2323, 2353

Economics 1301, 2353

Psychology 1313, 1323

Sociology 1313, 1323, 2333

## Certification Requirements for Elementary

### Provisional Elementary Certification within the Baccalaureate Interdisciplinary Degree

Professional Development Sequence: 18 upper-division semester hours, including EDCI 4301, 4302, 4305, 4306, and 4611 (EDCI 4311 and 4312 for Early Childhood Certification; EDCI 4311 and ED 4313 for Generic Special Education Certification; EDCI 4310 and EDCI 4311 for English as a Second Language Endorsement).

### Specialization/Delivery Systems for Elementary Certification

Elementary (Grades 1st-8th) OPTION II Certification: 18 semester hour (minimum) Academic Specialization (9 semester hours upper division) in:

Art

Biology

English

Health

History

Kinesiology

Mathematics

Music

Reading

Spanish

### Combination of Subjects of Option II (Except Reading)

READ 3323	3
READ 3325	3
READ 3326	3
BIOL 2408 OR PSCI 2408*	4
MATH 2306	3

MATH 2307	3
HIST 3302	3
HLTH 1354	3
GEOG 2313	3
ENG 4321	3
Total	31 semester hours

\*Physical Science if Biology was selected in General Education; Biology if Physical Science was selected in General Education.

Elementary (Grades 1st-8th) *Option III* Certification: 24 semester hours (minimum) Academic Specialization or Delivery System (12 semester hours upper division) in:  
 Bilingual Education  
 Generic Special Education

Elementary (Pre/K-6th) *OPTION IV* Certification: 24 semester hours Delivery System (12 semester hours upper division) in:  
 Early Childhood

**Academic Support for Reading Option II**

ENG 4321	3
ENG 3313, 3322, OR 4318	3
MATH 2306	3
MATH 2307	3
BIOL 1401**	4
BIOL 1402**	4
BIOL 3414, 3408, or 4314	4
GEOG 2313	3
HIST 3302	3
Total	34 semester hours

\*\*Students following this option take PSCI 1421, 1422 for General Education.

**Academic Support for Option III Bilingual**

READ 3323	3
READ 3325	3
ENG 3313	3
ENG 4325	3
SPAN 2307	3
SPAN 2308	3
SPAN/ENG 4330, SPAN 3330 or 4336	3
MATH 2306	3
MATH 2307	3
HIST 2363	3
HIST 4353 or 4325	3
Total	33 semester hours

**Academic Support for Generic Special Education Option III and Early Childhood Option IV**

READ 3323	3
READ 3325	3
ENG 4321	3
ENG 3313, 3323, 4318	3
MATH 2306	3
MATH 2307	3
BIOL 1401***	4
BIOL 1402**	4
BIOL 3414, 3408, or 4314	4
GEOG 2313	3
Total	33 semester hours

\*\*\*Students following this option take PSCI 1421, 1422 for General Education.

The following Specializations, Delivery Systems and Endorsements for Elementary Certification are offered through the School of Education:

Delivery System (Option III): Bilingual Education - EDCI 3315, 3316, 3322, 3324, 4304, ENG 3319, SPAN 3303 or 4316 and HLTH 2372.

Delivery System (Option IV): Early Childhood - EDEC 4314, 4390, 4391, 4392, 4393, 4394, HLTH 2372 and PSY 2335.

Delivery System (Option III): Generic Special Education - ED 1305, 4301, 4302, 4303, 4309, and 4371, KIN 4351 and PSY 2345 or 3305, or 4318.

Specialization (Option II): Reading - READ 3310, 3323, 3325, 3326, 3327 and 3329.

### **Endorsement: Bilingual Education**

The Bilingual Education endorsement may be added to valid provisional teacher certificates and provisional special education certificates. The professional development sequence for the endorsement consists of:

1. Oral and written proficiency in the language of the target population as measured by examinations approved by the State Education Agency.
  - A. Oral proficiency shall be determined by the Texas Oral Proficiency Test (TOPT) with a passing score of level 3.
  - B. Written proficiency shall be determined by the College Level Examination Program (CLEP) with a passing score of 50.
2. 12 semester hours at the graduate or undergraduate level earned after the bachelor's degree as follows:
  - EDCI 3315 or ED 6335
  - EDCI 3316 or ED 6350
  - EDCI 3324 or ED 6324
  - EDCI 4304 or ED 6351
3. One year of successful teaching experience in an approved bilingual education program.
4. Successful completion on ExCET/Bilingual.

### **Endorsement: Early Childhood**

The Early Childhood endorsement may be added to valid provisional teacher certificates with elementary or all-level options and provisional special education certificates. The professional developmental sequence for the Early Childhood endorsement consists of:

- (1) 12 semester hours: EDEC 4390, 4391, 4392, 4393. In addition, EDEC 4394 is strongly recommended.
- (2) 3 semester hours of Early Childhood student teaching (EDCI 4312 Student Teaching in Early Childhood); or one year of successful Early Childhood teaching experience on a permit in an accredited school and three additional semester hours (EDEC 4314 Survey of Research in Early Childhood) of Early Childhood education. Teaching or student teaching in a multi-age class which includes kindergarten shall be acceptable as appropriate experience.

### **Endorsement: English As A Second Language (ESL)**

The English as a Second Language (ESL) endorsement may be added to valid provisional teacher certificates (elementary or secondary) and provisional special education certificates. The professional development sequence for the ESL endorsement consists of 12 semester hours (2.25 GPA): ENG 3319, 3321, 4328; EDCI 3324, (EDCI 4310 Student Teaching: ESL). A Provisional Special Education certificate with a Specialization in Speech and Language Therapy is offered through the College of Arts and Sciences' Department of Communication. Check under the appropriate department in this bulletin for details.

### **Information Technology Endorsement**

*Requirements:* May be added to valid teaching certificates, special education certificates, or vocational education certificates which require a college degree. Level I endorsement shall consist of the following 9 semester hours: CS 1380, CS 3321, ED 3350.

### **Degree/Certification Requirements For Secondary**

For the prospective secondary teacher, The University of Texas-Pan American offers bachelor's degrees (BA, BS, BFA or BBA) in various academic disciplines with secondary certification through the School of Education. The University College and General Education requirements for the various academic disciplines are specified by the departments in this bulletin. In addition to the University College and General Education requirements, for students seeking Provisional Teacher Certificates at the secondary level, the following requirements also apply:

**Professional Development Sequence:** 18 semester hours upper division, including EDCI 4301, 4302, 4307, 4308, and 4641 (and/or appropriate student teaching course number for Generic Special Education).

**The School of Education offers Provisional Secondary Teacher Certifications in the following teaching fields and delivery systems:** Secondary (Grades 7th-12th) Option I: 1-36 semester hour (minimum) teaching field (21 semester hours upper division) in:

- Biology
- Chemistry
- Computer Information Systems
- Earth Science
- English
- Political Science
- History
- Kinesiology
- Mathematics
- Spanish
- Speech Communication
- Theatre Arts

Secondary (Grades 7th-12th) Option II: two 24-semester hour (minimum) teaching fields/delivery systems (12 semester hours upper division in each) in:

- Art
- Biology
- Chemistry
- Computer Information Systems
- Earth Science
- English
- Generic Special Education
- Health
- History
- Journalism
- Kinesiology
- Mathematics
- Physical Science
- Physics
- Political Science
- Psychology
- Reading
- Sociology
- Spanish
- Speech Communication

Secondary (Grades 7th-12th) Option III: one 48-semester hour (minimum) broad teaching field (24 semester hours upper division) in:

- Art
- Music

Secondary (Grades 7th-12th) Option IV: one 48-semester hour (minimum) composite teaching field (24 semester hours in one area of which 12 semester hours in upper division) in:

- Social Studies

Electives: 12 semester hours electives

6 semester hours from two of the following areas:

- ART 1301
- COMM 1303
- PHIL 1320, 2330

6 semester hours from two of the following areas:

- ANTH 1323, 2323, 2353
- ECO 1301, 2353
- PSY 1313, 1323
- SOC 1313, 1323, 2333

The following teaching fields/delivery systems are offered in the School of Education for those seeking a provisional Secondary teacher certificate:

Delivery System (Option II): Generic Special Education ED 1305, 2304, 4301, 4302, 4303, 4309, 4371, 4372; KIN 4351.

Teaching Field (Option II): READ 3310, 3323, 3325, 3326, 3327, 3351, 4351.

Provisional Teacher Certificates, All-Level, are offered in Art, Kinesiology and Music. A Kinesiology All-Level major requires a second teaching field of 24 hours; second teaching fields are not required for Art and Music All-Level majors. Specific requirements for each are located by appropriate departments elsewhere in this bulletin; however, the professional development (18 upper division semester hours) sequence for provisional teacher certificate All-Level, offered through the School of Education for Art and Music, is as follows: EDCI 4301, 4302, 4307, 4308, 4398 and 4311. All-Level for Kinesiology is as follows: EDCI 4301, 4302, 4305, EDUK 4354, EDCI 4311 and 4398.

## Student Teaching

The School of Education offers the directed teaching experience as a critically important component in the preparation of competent teachers. Prospective teacher education students should consult with their major advisers and the Coordinator of Student Teaching in the School of Education. Stated student-teaching clear admission requirements are subject to change due to new state agency regulations or School of Education/University-approved policy.

### Elementary Education

1. Minimum of 90 semester hours total university course work completed.
2. Minimum overall Grade Point Average (GPA) of 2.5.
3. General Education required courses completed with a minimal GPA of 2.25.
4. English 1301 and 1302 completed with a minimum of "C" in each.
5. Successful completion of MATH 1340, 2306, and 2307 with a grade of "C" or better.
6. Completed minimum of 3/4 of total semester hours required in the Interdisciplinary Major.
7. Minimum of 2.25 Grade Point Average (GPA) in Major or Support Area or Combination Area.
8. Satisfactory completion of the following courses in Elementary Education: EDCI 4301, 4302, 4305, and 4306 with a minimal GPA of 2.25.
9. Completed minimum of 1/2 of total semester hours required in academic specialization or delivery system with a minimal GPA of 2.25 in each.
10. (For Bilingual) Satisfactory completion of Education 3322, 4304, 3315, 3316, and 3324 with a minimal GPA of 2.25.

### Secondary Education

1. Minimum of 90 semester hours total university course work completed.
2. Minimum overall Grade Point Average (GPA) of 2.5.
3. General Education required courses completed with a minimal GPA of 2.25.
4. English 1301 and 1302 completed with a minimum of "C" in each.
5. Successful completion of MATH 1340 with a grade of "C" or better.
6. Completed minimum of 3/4 of total semester hours required in Major teaching field.
7. Minimum of 2.25 Grade Point Average (GPA) in Major.
8. Additional requirements as specified by Major department.
9. Completed minimum of 18 semester hours for student teaching in the Minor or second teaching field.
10. Minimum of 2.25 Grade Point Average (GPA) in Minor.
11. Additional requirements as specified by Minor department.
12. 12 semester hours in Secondary Education: EDCI 4301, 4302, 4307, and 4308.
13. Minimum of 2.25 Grade Point Average (GPA) in Professional Education.

All requirements for student teaching, including a minimum of 45 clock hours of field experience, must be met before a student is given a Clear Admission status for student teaching. Option IV elementary requires a minimum of 60 clock hours of field experience.

## Graduate Program

The Department of Curriculum and Instruction — Elementary and Secondary offers a Master of Education degree in Early Childhood, Elementary Education, Elementary Bilingual Education, Secondary Education, and Reading.

## MEd Degree in Secondary Education

Admissions requirements for applicants seeking a Master's of Education in Secondary Education:

1. Admission to the University Graduate School.
2. Undergraduate grade-point average (GPA) (last 60 hours) times 200 + GRE verbal and quantitative. Total must be 1300 or greater.
3. A completed application must be submitted to the Secondary program.
4. Approval by the department's Secondary admissions committee.
5. Overall undergraduate GPA of 2.5 (TEA requirement).
6. Minimum of 18 hours of undergraduate education coursework (TEA requirement).

Admissions requirements for students seeking Master's of Education in Secondary Education with professional certification:

1. Must meet all of the admissions requirements for admission to Master's in Secondary Education.
2. Applicant shall hold or be eligible for a provisional certificate (TEA requirement).
3. Applicant shall have three years teaching experience (TEA requirement).

Requirements for completion of Master's of Education in Secondary Education and for professional certification:

1. Students must complete residence requirement (TEA requirement).
2. Students must have at least a 3.0 average on a four-point scale or the equivalent on all graduate work attempted (TEA requirement).
3. Candidates recommended for graduate level certification shall be required to show satisfactory performance on a comprehensive examination as required by the SBOE (TEA requirement).
4. Students must show satisfactory performance on an oral examination during the first 12 to 18 hours of graduate courses.
5. Students must satisfactorily complete an oral examination.
6. Students must make a formal application for graduation in compliance with catalog requirements.

## MEd Degree in Early Childhood

### Master of Education Degree (36-Hour Non-Thesis Option Program)

#### *Early Childhood Core Courses*

(18 hours)

EDEC 6380 The Young Child In A Multi-Cultural Society  
EDEC 6381 First and Second Language Development in Young Children  
EDEC 6382 Emergent Literacy Development  
EDEC 6390 Internship in Early Childhood Setting I  
EDEC 6391 Development and Administration of Early Childhood Programs  
EDEC 6392 Internship in Early Childhood Setting II

#### *Professional Development*

(12 hours)

ED 6300 Introduction to Research  
ED 6367 Introduction to Statistical Methods  
PSY 6330 Advanced Studies in Child Development  
SOC 6361 Race and Ethnic Relations  
or  
SOC 6310 Experimental Aspects of Being Bicultural  
SOC 6350 Advanced Sociology of Education

#### *Resource Areas*

(Select 6 hours from two  
of the three areas listed.)

COMM 6302 Communication of Bilingual/Bicultural Children  
COMM 6307 Language Development in Bilingual/Bicultural Populations  
COMM 6308 Language Disorders in Bilingual/Bicultural Populations  
COMM 6309 Assessment of Communication Disorders in Bilingual/Bicultural Populations

or

ENG 6321 Studies in Language and Culture  
ENG 6344 Studies in Grammar, Dialects and Language Performance  
ENG 6345 Problems in Grammar, Dialects and Language Performance  
ENG 6350 Introduction to Descriptive Linguistics for Teachers

or



SPAN 6342 Special Studies in Spanish Civilization  
SPAN 6344 Problems and Issues Related to Language  
SPAN 6350 Special Topics in Spanish Linguistics  
SPAN 6307 Advanced Problems and Composition for the Classroom Teacher  
SPAN 6347 Special Studies in Grammar and Composition

*Early Childhood Thesis Option*

ED 7300, 7301 Thesis

Replaces either EDEC 6390 or 6392 and one resource three credit-hour course

**36-Hour Thesis Option Program**

Same as non-thesis program except

ED 7300, 7301 Thesis

Replaces resource area

**MEd Degree in Elementary Education and Reading**

**Master of Education Degree  
(36-Hour Non-Thesis Program)**

*Major*

Elementary Education

Non-Certification

*Content Courses*

(12 hours)

ED 6308 Foundations of Reading Instruction  
ED 6309 Topics in Reading  
ED 6310 Child and Adolescent Literature  
ED 6323 Problems in the Teaching of Reading  
ED 6325 Practicum in Reading Instruction  
ED 6326 Science in the Elementary School Curriculum  
ED 6327 Social Studies in the Elementary School Curriculum  
ED 6328 Mathematics in the Elementary School Curriculum  
ED 6329 Diagnostic Teaching of Reading  
ED 6330 The Curriculum in the Elementary School

*Professional Development*

(9 hours)

ED 6301 Instructional Media in Teaching  
ED 6302 Advanced Educational Psychology  
ED 6303 Advanced Philosophy of Education  
ED 6308 Foundation of Reading Instruction  
ED 6311 Advanced Child Psychology  
ED 6313 Psychoeducational Assessment  
ED 6316 Development Assessment Psychological Process\*  
ED 6317 Perceptual Motor Development in Young Children\*  
ED 6318 Diagnostic and Prescriptive Teaching\*  
ED 6322 The Bilingual Child  
ED 6330 The Curriculum in the Elementary School  
ED 6360 Introduction to Guidance and Counseling  
ED 6367 Introduction to Statistical Methods  
ED 6370 Supervision of Instruction  
EDEC 6380 The Young Child in a Multi-Cultural Society  
EDEC 6382 Emergent Literacy  
ED 6390 Education of Young Children

*Resource Areas*

(9 hours)

ED 6302 Advanced Educational Psychology  
ED 6336 Problems in Education  
ED 6390 Education of Young Children  
ED 6397 Analysis of Teaching Behavior

Or 6 hours from any of the graduate level courses outside the major or minor fields may be taken as resource area courses.

*Degree Requirements* (6 hours)  
 ED 6300 Introduction to Research  
 EDPS 6370 Educational and Psychological Measurement  
 Total 36 hours

\*Requirements for L/LD endorsements

**Master of Education Degree  
 (36-Hour Thesis Program)**

*Major* Elementary Education Non-Certification

*Content Courses* (12 hours)

- ED 6308 Foundations of Reading Instruction
- ED 6309 Topics in Reading
- ED 6323 Problems in the Teaching of Reading
- ED 6325 Practicum in Reading Instruction
- ED 6326 Science in the Elementary School Curriculum
- ED 6327 Social Studies in the Elementary School Curriculum
- ED 6328 Mathematics in the Elementary School Curriculum
- ED 6329 Diagnostic Teaching of Reading
- ED 6330 The Curriculum in the Elementary School

*Professional Development* (12 hours)

- ED 6301 Instructional Media in Teaching
  - ED 6302 Advanced Educational Psychology
  - ED 6303 Advanced Philosophy of Education
  - ED 6308 Foundations of Reading Instruction
  - ED 6311 Advanced Child Psychology
  - ED 6313 Psychoeducational Assessment
  - ED 6322 The Bilingual Child
  - ED 6360 Introduction to Guidance and Counseling
  - ED 6367 Statistical Methods
  - ED 6370 Supervision of Instruction
  - ED 6390 Education of Young Children
  - ED 6397 Analysis of Teaching Behavior
- or

*Resource Area*

The student may substitute 6 hours from any of the graduate-level courses outside the field of education for the 6 hours of professional development courses.

*Thesis* (6 hours)

ED 7300, 7301 Thesis

*Degree Requirements* (6 hours)

ED 6300 Introduction to Research  
 EDPS 6370 Educational and Psychological Measurement  
 TOTAL 36 hours

**Master of Education Degree  
 36-Hour Non-Thesis Program**

*Major* Elementary Education *Certificate* Professional Elementary

*Specialization Area (minor)* (12 hours)

12 hours of graduate level courses in one of the following fields or a combination of two divided 9-3 or 6-6. Biology, English, Government, Health and Kinesiology, History, Mathematics, Spanish.

<i>Professional Development</i>	(6-12 hours)
ED 6301 Instructional Media in Teaching	
ED 6302 Advanced Educational Psychology	
ED 6303 Advanced Philosophy of Education	
ED 6308 Foundations of Reading Instruction	
ED 6311 Advanced Child Psychology	
ED 6313 Psychoeducational Assessment	
ED 6322 The Bilingual Child	
ED 6330 The Curriculum in the Elementary School	
ED 6360 Introduction to Guidance and Counseling	
ED 6367 Introduction to Statistical Methods	
ED 6370 Supervision of Instruction	
ED 6397 Analysis of Teaching Behavior	

<i>Resource Areas (6 Hours Minimum)</i>	(6-12 hours)
ED 6323 Problems in the Teaching of Reading	
ED 6325 Practicum in Reading Instruction	
ED 6326 Science in the Elementary School Curriculum	
ED 6327 Social Studies in the Elementary School Curriculum	
ED 6328 Mathematics in the Elementary School Curriculum	
ED 6329 Diagnostic Teaching of Reading	
ED 6336 Problems in Education	
or 6 hours from any of the graduate level courses outside the major or minor fields may be taken as resource area courses.	

<i>Degree Requirements</i>	(6 hours)
ED 6300 Introduction to Research	
EDPS 6370 Educational and Psychological Measurement	

TOTAL	36 hours
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**Master of Education Degree  
36-Hour Non-Thesis Program for Students Holding an  
Elementary Provisional Certificate**

<i>Major</i>	<i>Certificate</i>
Reading All-level	Reading Specialist

<i>Reading Area</i>	(18 hours)
ED 6308 Foundations of Reading Instruction	
ED 6309 Topics in Reading	
ED 6310 Child and Adolescent Literature	
ED 6323 Problems in the Teaching of Reading	
ED 6329 Diagnostic Teaching of Reading	
ED 6325 Practicum in Reading Instruction	

<i>Resource Area</i>	(6 hours)
SOCI 6361 Race and Ethnic Relations	
ENG 6350 Introduction to Descriptive Linguistics	
(If the student has credit for ENG 3319, substitute ENG 6351.)	

<i>Professional Development</i>	(6 hours)
ED 5351 Teaching Reading to the Secondary Student	
ED 6331 Curriculum in the Secondary School	

<i>Degree Requirements</i>	(6 hours)
ED 5313 Reading Tests	
ED 6300 Introduction to Research	

TOTAL	36 hours
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**Master of Education Degree  
36-Hour Non-Thesis Program for Students Holding a  
Secondary Provisional Certificate**

<i>Major</i>	<i>Certificate</i>
Reading All-level	Reading Specialist
<i>Reading Area</i>	(18 hours)
ED 6308 Foundations of Reading Instruction	
ED 6309 Topics in Reading	
ED 6310 Child and Adolescent Literature	
ED 6323 Problems in the Teaching of Reading	
ED 6329 Diagnostic Teaching of Reading	
ED 6325 Practicum in Reading Instruction	
<i>Resource Area</i>	(6 hours)
SOCI 6361 Race and Ethnic Relations	
ENG 6350 Introduction to Descriptive Linguistics (If the student has credit for ENG 3319, substitute ENG 6351.)	
<i>Professional Development</i>	(6 hours)
ED 5351 Teaching Reading to the Secondary Student	
ED 6311 Advanced Child Psychology or	
ED 6331 Curriculum in the Secondary School (If the student has credit for ED 4351, substitute approved elective.)	
<i>Degree Requirements</i>	(6 hours)
ED 5313 Reading Tests	
ED 6300 Introduction to Research	
<b>TOTAL</b>	<b>36 hours</b>

**Master of Education Degree  
30-Hour Thesis Program**

<i>Major</i>	<i>Certificate</i>
Elementary Education	Professional Elementary
<i>Specialization Area</i>	(12 hours)
12 hours of graduate-level courses in one of the following fields or a combination of two divided 9-3 or 6-6: Biology, English, Government, Kinesiology, History, Mathematics, Spanish.	
<i>Professional Development</i>	(6 hours)
ED 7300, 7301 Thesis	
<i>Resource Area</i>	(6 hours)
ED 6322 The Bilingual Child	
ED 6323 Problems in the Teaching of Reading	
ED 6325 Practicum in Reading Instruction	
ED 6326 Science in the Elementary School Curriculum	
ED 6327 Social Studies in the Elementary School Curriculum	
ED 6328 Mathematics in the Elementary School Curriculum	
ED 6329 Diagnostic Teaching of Reading	
ED 6330 The Curriculum in the Elementary School	
Or 6 hours from any other graduate level courses outside the major or minor fields may be taken as resource area courses.	
<i>Degree Requirements</i>	(6 hours)
ED 6300 Introduction to Research	
EDPS 6370 Educational and Psychological Measurement	
<b>TOTAL</b>	<b>30 hours</b>

**Professional Certificate with  
Master of Arts Degree or Master of Science Degree**

<i>Major</i> Biology English	<i>Certificate</i> Professional Elementary
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<i>Specialization Area</i> 12 hours of graduate level courses in one of the following areas: Biology, English	(12 hours)
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<i>Professional Development</i> <i>Required:</i> ED 6311 Advanced Child Psychology ED 6330 The Curriculum in the Elementary School	(12 hours)
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*3 hours selected from:*  
ED 6301 Instructional Media in Teaching  
ED 6322 Teaching the Bilingual Child  
ED 6323 Problems in the Teaching of Reading  
ED 6397 Analysis of Teacher Behavior

<i>Resource Area</i> 6 semester hours in a second specialization area or 6 semester hours selected from the following: ED 6308 Foundations of Reading Instruction ED 6323 Problems in the Teaching of Reading ED 6325 Directed Practice in Remedial Reading ED 6326 Science In the Elementary School Curriculum ED 6327 Social Studies In the Elementary School Curriculum ED 6328 Math in the Elementary School Curriculum ED 6329 Diagnostic and Remedial Teaching of Reading	(6 hours)
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**Degree Requirements**

The student should consult the department of his major for specific information on degree requirements, which are in addition to the above certification requirements.

**MEd Degree in Bilingual Education**

The role of the bilingual/bicultural education specialist is that of a leader and master teacher in the field. Such a field includes knowledge, skills, and attitudes which are characterized by language, cultural, and instructional dimensions. The MEd Degree with specialization in Bilingual Education provides an opportunity to develop such characteristics.

The following is the program for the MEd Degree with specialization in Bilingual Education:

**Master of Education Degree  
36-Hour Non-Thesis Program**

<i>Major</i> Elementary Education	<i>Certificates</i> Professional Elementary Provisional Bilingual
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<i>Professional Development</i> ED 6350 The Bilingual Reading Process ED 6335 Teaching Elementary School Subjects in the Bilingual School ED 6319 Practicum in Bilingual Education (taken last semester of program) ED 6324 Second Language Teaching: Theory and Methodology	(12 hours)
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<i>Specialization Area</i>	(12 hours)
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*Language Component* (6 hours)

SPAN 6307 Advanced Spanish Grammar and Composition for the Classroom Teacher

Select 3 hours from:

ENG 6350 Introduction to Descriptive Linguistics for Teachers

ENG 6351 Problems in Linguistics

*Socio-Historical Component* (6 hours)

Select 3 hours from:

SOCI 6361 Race and Ethnic Relations

SOCI 6362 Mexican-American Society

SOCI 6303 Advanced Topics

SOCI 6350 Sociology of Education

Select 3 hours from:

HIST 6306 Studies in Texas and Southwestern History

HIST 6316 Studies in Mexican and American Heritages

*Resource Area* (6 hours)

ED 6302 Advanced Educational Psychology

Choice of 3 hours from:

ED 6388 Socio-Cultural Foundations of Education

ED 6322 The Bilingual Child

*Degree Requirements* (6 hours)

ED 6300 Introduction to Research

EDPS 6370 Educational and Psychological Measurement

TOTAL

36 hours

**Master of Education Degree in Secondary Education  
39-Hour Non-Thesis Program**

*Major*

Secondary Education

Non-Certification

*Specialization Area*

(12 hours)

12 semester hours of graduate level courses in one of the following fields: Biology, Communication, English, Political Science, Kinesiology, History, Mathematics, Psychology, Sociology, Spanish, Speech Communications, Theatre

*Degree Requirements*

(9 hours)

ED 6300 Introduction to Research

EDCI 6302 Multi-Cultural Education

EDCI 6304 Measurement and Evaluation

*Professional Development*

(12 hours)

*Required:*

ED 6301 Instructional Technology

ED 6305 The Curriculum in the Secondary School

ED 6308 Practicum for Secondary Teachers

Select 3 hours from:

EDCI 6306 Special Projects

EDCI 6307 Research, Issues, and Trends in Education

EDCI 6303 Professional Ethics

*Resource Area*

(6 hours)

Six semester hours from any graduate level courses which provide background for the specialization area, or courses chosen to extend the applicant's preparation with consent of graduate adviser.

**Master of Education Degree in Secondary Education  
39-Hour Non-Thesis Program**

*Major*  
Secondary Education

*Certificate*  
Professional

*Specialization Area*

(12 hours)

12 semester hours of graduate level courses in one of the following fields: Biology, Communication, English, Political Science, Kinesiology, History, Mathematics, Psychology, Sociology, Spanish, Speech Communication, Theatre

*Degree Requirements*

(9 hours)

ED 6300 Introduction to Research  
EDCI 6302 Multi-Cultural Education  
EDCI 6304 Measurement and Evaluation

*Professional Development*

(12 hours)

*Required:*

ED 6301 Instructional Technology  
ED 6305 The Curriculum in the Secondary School  
ED 6308 Practicum for Secondary Teachers

*Select 3 hours from:*

EDCI 6306 Special Projects  
EDCI 6307 Research, Issues, and Trends in Education  
EDCI 6303 Professional Ethics

*Resource Area*

(6 hours)

6 semester hours from any graduate level courses which provide background for the specialization area, or courses chosen to extend the applicant's preparation in a subject matter field other than his or her specialization with consent of graduate adviser.

**Master of Education Degree in Secondary Education  
39-Hour Thesis Program**

*Major*  
Secondary Education

Non-Certification

*Specialization Area*

(12 hours)

12 semester hours of graduate level courses in one of the following fields: Biology, Communication, English, Political Science, Kinesiology, History, Mathematics, Psychology, Sociology, Spanish, Speech Communication, Theatre

*Degree Requirements*

(9 hours)

ED 6300 Introduction to Research  
EDCI 6302 Multi-Cultural Education  
EDCI 6304 Measurement and Evaluation

*Professional Development*

(12 hours)

*Required:*

ED 6301 Instructional Technology  
ED 6305 The Curriculum in the Secondary School  
ED 6308 Practicum for Secondary Teachers

*Select 3 hours from:*

EDCI 6306 Special Projects  
EDCI 6307 Research, Issues, and Trends in Education  
EDCI 6303 Professional Ethics

**Course Descriptions — Additional courses may be found in other Education Departments.**

**GRADUATE**

**ED 5313 READING TESTS**

Spring

A major function of this course is to help graduate students develop competencies in the selection, administration, scoring and interpretation of standardized tests, with particular emphasis upon their application to reading instruction. Special emphasis will also be given to the development and use of informal evaluative instruments to meet particular reading needs of students.

**ED 5351 TEACHING READING TO THE SECONDARY STUDENT**

Spring, Summer

The relation of reading ability to academic achievement, procedures for teaching reading skills needed in content area reading, and reading difficulties encountered by secondary students are included in this course. The student will use diagnostic tools and techniques to determine reading needs of secondary students and will develop reading-learning activities to meet those needs.

**ED 6300 INTRODUCTION TO RESEARCH**

Fall, Spring, Summer

A study of research methods in Education including settings which culminate in the successful completion of a research project/paper. Students will demonstrate skills in the utilization of research facilities and will be introduced to graduate programs in education. This course should be taken within the first 6 credit hours of graduate work.

**ED 6301 INSTRUCTIONAL MEDIA IN TEACHING**

An advanced course designed to provide students with skills, insight and practice in the selection, utilization, production and management of modern instructional tools. The course will be helpful to teachers and other persons desiring to direct instructional media centers in public schools. *Prerequisite: EDCI 3301 or equivalent.*

**ED 6303 ADVANCED PHILOSOPHY OF EDUCATION**

The development of American education in relation to political, social and cultural developments. Special attention is given to the influence of movements in the cultural environment upon evolving conceptions of educational theory and practice.

**ED 6308 FOUNDATIONS OF READING INSTRUCTION**

This course places major emphasis on the nature of the reading process and the essential components of a systematic, sequential program for developmental reading instruction. Various approaches for teaching reading will be scrutinized and analyzed. *Prerequisite: ED 3323 or admission by test placement.*

**ED 6309 TOPICS IN READING**

This course is concerned primarily with innovations and current issues in reading instruction. Trainees will select topics of particular interest and concern for intensive study. Experiences of the trainee may include action research, working with classroom teachers and other adults in the school community to enhance the reading program. May be repeated once, when emphasis is on study in resource areas or professional areas related to the field of reading.

**ED 6310 CHILD AND ADOLESCENT LITERATURE**

This course is designed to help the trainee gain competence in selecting and recommending literature for children and adolescents and providing leadership and guidance to help students develop maturity in reading. Trainees will be provided with experiences which will enable them to locate and select appropriate literature for students and to apply appropriate strategies for stimulating voluntary participation and continuous growth in independent reading.

**ED 6319 PRACTICUM IN BILINGUAL EDUCATION**

Supervised practical experience in a bilingual/bicultural elementary classroom in which several of the essential components of a bilingual/bicultural education program will be analyzed and implemented by each participant with the cooperation of local school districts. Actual laboratory responsibility will be based upon theoretical concerns, as field experiences will complement the principles governing community involvement, curriculum and instruction, instructional materials, staff development, and assessment. *Prerequisite: 30 credit hours in bilingual graduate program.*

**ED 6320 MICROCOMPUTERS IN STUDENT SERVICES**

A specialized survey of computer technology in educational settings. Emphasis is given to emerging ways of enhancing the



effectiveness of learning environments and increasing the efficiency of student services in the schools. Assignments and classroom activities will include the comparative evaluation and implementation of different hardware and software educational systems.

#### **ED 6322 THE BILINGUAL CHILD**

A course designed to provide understanding of the problems and strengths of the bilingual child with emphasis on the educational program of the multi-cultural, multi-ethnic elementary school.

#### **ED 6323 PROBLEMS IN THE TEACHING OF READING**

This course is concerned with analyzing and prescribing materials and techniques for reading instruction to meet common reading problems, integrating reading instruction with other facets of communication, relating reading instruction to socio-cultural and linguistic characteristics of the learner. Recreational reading, grouping, content area reading and other problems are among those considered. *Prerequisite: ED 6308.*

#### **ED 6324 SECOND LANGUAGE TEACHING: THEORY AND METHODOLOGY**

A study of the acquisition of languages by the bilingual learner, focusing on the role of the child, the community and the school through various stages of language development and the relationship of linguistic, cultural and conceptual processes within a bilingual/bicultural environment. The evaluation of language methods and materials as these relate to social context and the principles of communication will be stressed.

#### **ED 6325 PRACTICUM IN READING INSTRUCTION**

Supervised experience in working with individual children who have reading difficulties. *Prerequisite: ED 6329.*

#### **ED 6326 SCIENCE IN THE ELEMENTARY SCHOOL CURRICULUM**

Deals with the purposes, selections and organization of content, teaching and learning procedures and evaluation of outcomes in elementary school science. *Prerequisite: A course in physical science and a course in life science.*

#### **ED 6327 SOCIAL STUDIES IN THE ELEMENTARY SCHOOL CURRICULUM**

Instructional procedures and latest theories in elementary school social studies. Techniques of teaching History and Geography with emphasis on development of Americanism, conceptual skills, economic and conservation education, use of maps, unit organization, projects and pupil involvement in community problems.

#### **ED 6328 MATHEMATICS IN THE ELEMENTARY SCHOOL CURRICULUM**

Study is made of recent research in the teaching of mathematics. Application of research finding to the teaching of mathematics is emphasized.

#### **ED 6329 DIAGNOSTIC TEACHING OF READING**

This course is designed to help the student gain competency in diagnosing reading behavior and in prescribing appropriate reading instruction. The student has the opportunity to develop or select, administer and interpret appropriate diagnostic materials and techniques. He/she also will be able to make appropriate recommendations for reading instruction on the basis of such diagnosis. *Prerequisite: ED 6323.*

#### **ED 6330 THE CURRICULUM IN THE ELEMENTARY SCHOOL**

Development of the elementary school curriculum, significant factors which help to determine the curriculum and implications of research in curriculum construction are studied. Opportunity to select and organize appropriate learning experiences for the different levels is offered.

#### **ED 6331 THE CURRICULUM IN THE SECONDARY SCHOOL**

An overview of theories, principles and issues in curriculum planning for modern educational experiences. In addition to an examination of current curricular practices, particular emphasis will be placed upon promising research ideas and local efforts toward improvement in the secondary school.

#### **ED 6332 RESEARCH IN ELEMENTARY EDUCATION**

Students will study special problems related to their needs and interests. They will also be expected to master research procedures and present a research paper on a selected problem.

#### **ED 6335 TEACHING ELEMENTARY SCHOOL SUBJECTS IN THE BILINGUAL SCHOOL**

A course emphasizing a variety of advanced instructional strategies appropriate to teaching modern elementary Mathematics, Science, and Social Studies to the bilingual child through the Spanish and English languages. Competency will be deter-

mined in the areas of planning, assessment, teaching/learning, communication, management, concept development, the self-concept, materials, community and professional leadership. Precise terminology in English and Spanish and its application in the classroom will be stressed.

#### **ED 6336 PROBLEMS IN EDUCATION**

This course's major emphasis is on current innovations in education. Students will conduct research related to selected problems. Experiences of the student may include conducting action research, working with educational determinants, new education programs, and/or working with classroom teachers and other persons in the community in order to improve the education program. Credit may be applied toward the graduate programs in education when the appropriate problem is chosen by the student. This course may be repeated once for credit.

#### **ED 6350 THE BILINGUAL READING PROCESS**

This course presents the knowledge, skills, and attitudes related to the bilingual reading process in the classroom by examining rationale, goals, diagnosis, placement, transfer, learning strategies, instructional materials, and assessment procedures for the reading process in a dual-language classroom environment.

#### **ED 6351 FIRST AND SECOND LANGUAGE DEVELOPMENT**

This course will present a contrastive analysis of the development of a first language in the home environment and the acquisition of a second language in the school setting, with a special focus on the Hispanic bilingual student. Possible reinforcement and predictable interference between the two languages will be studied with emphasis on social and academic language proficiency along an informal-formal continuum. The bilingual proficiency of the teacher will be examined along an informal-formal continuum.

#### **ED 6380 PRACTICUM FOR SECONDARY TEACHERS**

Examination of the discipline of the subject-field selected coupled with intensive study of research findings, scholarly publications, and advanced experimentation with the improvement of instruction.

#### **ED 6390 THE EDUCATION OF YOUNG CHILDREN**

This course is designed for teachers of preschool-age children with emphasis on the developmental tasks and growth and development characteristics of four- and five-year-olds. Special consideration will be given to selection and guidance of curriculum experience which contribute to the development of young children as individuals and in groups, records and reports, working with parents and observation of preschool groups. *Prerequisite: ED 3311.*

### **Early Childhood Graduate Courses**

#### **EDEC 6380 MULTI-CULTURAL SOCIETY**

A study of the cultural development of young children, beginning with infancy through age eight, focusing on socio-economic, ethnic, and cultural life styles of students in early childhood educational programs.

#### **EDEC 6381 LANGUAGE DEVELOPMENT**

A study of bilingualism in young children, beginning with first language development and subsequent second language acquisition, stressing the interrelationships between the two languages in the domains of auditory perception, oral language, visual perception and motor coordination.

#### **EDEC 6382 EMERGENT LITERACY**

This course will focus on the perspective that the literacy process is a developmental one which begins in infancy. It is designed to acquaint students with children's literacy development from birth through age eight. Appropriate educational practices to promote literacy development will be examined.

#### **EDEC 6390 INTERNSHIP IN EARLY CHILDHOOD**

On-site internship in a public setting with focus on the physical, motor and social development of the young child. *Prerequisites: 15 Early Childhood program graduate hours to include PSY 6330, SOC 5313 or 6310, EDEC 6385.*

#### **EDEC 6391 PROGRAM ADMINISTRATION**

Study and analysis of the organizational structure and functional operation of nursery programs, Day-Care, Pre-Kinder and Kindergarten programs. Existing educational research projects now being conducted will be surveyed.

#### **EDEC 6392 INTERNSHIP II**

On-site internship in a public setting with focus on cognitive, psychological, and linguistic development. Further focus will also be given to administering early childhood programs. *Prerequisites: 30 Early Childhood program graduate hours to include EDEC 6380, 6381, 6382, 6390 and 6 hours from Communication, English and/or Spanish.*

## UNDERGRADUATE

### Early Childhood

#### **EDEC 4314 RESEARCH IN EARLY CHILDHOOD**

Students will research and survey current trends in early childhood programs including day care. Theories of classroom management and supervision of children will be emphasized. *Prerequisites: EDEC 4390, 4394 and 4391 or 4392.*

#### **EDEC 4390 GROWTH AND DEVELOPMENT IN EARLY CHILDHOOD**

This course will address the physical, intellectual, social, and emotional development of early childhood. The major theories of childhood development, including self-concept, will be reviewed along with developmentally appropriate management styles.

#### **EDEC 4391 FOUNDATIONS OF EARLY CHILDHOOD**

Analysis of expressive and receptive language processes, theories of creativity and theories of supervision of young children supported by research base in the field of early childhood. *Prerequisites: EDEC 4390 and EDEC 4394.*

#### **EDEC 4392 ACQUISITION AND CONCEPTUALIZATION PROCESSES IN EARLY CHILDHOOD**

Analysis of processes of acquisition and conceptualization of Piagetian concepts, socialization, wellness and fitness. *Prerequisite: EDEC 4390 or EDEC 4394.*

#### **EDEC 4393 CULTURAL DIMENSIONS RELATED TO EARLY CHILDHOOD**

Multicultural, pluralistic societies will be reviewed with emphasis on major components of culture. The culture of Hispanics and other minorities will be an integral part of this course. Dynamics of socioeconomic status, stereotyping, family structure, language acquisition and health/nutrition will be researched.

#### **EDEC 4394 COGNITIVE AND PSYCHOMOTOR DEVELOPMENT IN EARLY CHILDHOOD**

Theories of and stages of cognitive and psychomotor development will be analyzed. Developmental program models will be studied. Readiness for first language learning and second language acquisition will be addressed.

### Education — Curriculum & Instruction

#### **EDCI 1301 INTRODUCTION TO TEACHING**

This course focuses on the individual as a teacher by examining the role of the teacher in the teaching-learning process. This involves analysis of learners and learning environment as well as preparation for the performance of teaching activities within university and public school classrooms. This course will give the students an opportunity to examine the field of teaching and their strengths and weaknesses as teachers with an early entry into the field. Students who choose to continue in the field of teaching will have additional time to build on these strengths and remediate the weaknesses.

#### **EDCI 3301 DESIGN AND MANAGEMENT OF INSTRUCTION**

Instructional methods and strategies will be applied to the teaching-learning process. Planning, organizing and managing instruction will be included. Instructional media and technology will be emphasized so that students will be able to use audio, visual, video, and computer systems to teach the essential elements of the school curriculum. (Recommended for career ladder and deficiency plans.)

#### **EDCI 3305 FOUNDATIONS OF MULTICULTURAL EDUCATION**

A review of the concept of culture, its components and dimensions, and its implications for the education of students in a multicultural society. Consideration will be given to the value and importance of cultural pluralism as reflected in a multicultural world. These concepts will be integrated into instructional strategies and the curriculum.

#### **EDCI 3312 TESTING AND MEASUREMENT**

The content of this course will include: derived scores (standard scores, percentiles, grade equivalent, age scores), reliability, and validity as related to the development and interpretation of criterion and norm reference measures, teacher-made tests, and systematic observational scales. There will be an emphasis on utilizing appraisal information obtained from tests and observational scales as an integral part of the evaluation and teaching-learning-achievement process. (Recommended for ExCET preparation and deficiency plans.)

#### **EDCI 3315 THE BILINGUAL CURRICULUM IN THE CONTENT AREAS**

This is a course in which the state-mandated curriculum for the content areas will be studied, focusing on the essential elements of science, mathematics, social studies and health in a bilingual classroom. The role of language, placement, and materials will be examined within a comprehensive, systematic program design.

**EDCI 3316 TRANSITION OF SPANISH READING SKILLS TO THE ENGLISH READING PROCESS**

The course content includes the nature of Spanish reading — its linguistic and curricular essential elements and its relationship to English reading. Special emphasis is placed on the development of a smooth and successful transition from first language reading to second language reading for limited English-proficient students.

**EDCI 3322 FOUNDATIONS OF BILINGUAL EDUCATION**

The study of cultural, psychological, socio-economic, linguistic, cognitive and curricular factors affecting the academic achievement of bilingual students. This course also will investigate the philosophical, legal, and sociological aspects of bilingual education in the American public school system. National, state, and local guidelines designed to meet the needs of multilingual and multicultural student populations will be reviewed.

**EDCI 3324 ENGLISH AS A SECOND LANGUAGE**

The rationale, theories, and goals of a comprehensive ESL curriculum program will be studied in compliance with the needs of the public schools and the standards of the State of Texas.

**EDCI 3328 TEACHING ELEMENTARY SCHOOL MATHEMATICS**

Instructional methods and strategies emphasizing practical applications of the teaching-learning process to the teaching of elementary school mathematics. The scope and sequence of the essential elements for elementary school mathematics will be taught. Includes 15 clock hours of field experience observing and working with children in an elementary school classroom. *Prerequisites: MATH 2306, 2307.*

**EDCI 3331 LANGUAGE ARTS/CHILDREN'S LITERATURE IN THE ELEMENTARY CURRICULUM**

Methods of teaching the language arts in the elementary school with special emphasis on the communication skills and children's literature. Attention will be given to teaching English as a second language.

**EDCI 3332 SOCIAL STUDIES AND SCIENCE IN THE ELEMENTARY SCHOOL**

Methods of teaching the social studies and science in the elementary school. Practical applications of the teaching-learning process for teaching the essential elements will be emphasized. Includes 15 clock hours of field experience observing and working with children in an elementary school classroom. Complies with TEA Standards.

**EDCI 4301 FOUNDATIONS OF EDUCATION**

This course focuses on the principles of education including historical and philosophical development, purposes, goal-setting, legislation, and rights and responsibilities in a multicultural society. The course will also stress the structure and function of local, state, and federal roles in education. The student will examine professional ethics in education and the promotion of and participation in the profession. *Prerequisite: Passing score on TASP.*

**EDCI 4302 EDUCATIONAL PSYCHOLOGY**

The principal focus of this course is on major theories of the teaching-learning processes and human growth and development. It includes impact of multicultural differences upon the instructional process as well as the needs of special learners. Measurement and evaluation of student achievement will be examined. *Prerequisite: Passing score on TASP.*

**EDCI 4304 FIRST LANGUAGE LEARNING AND SECOND LANGUAGE ACQUISITION**

This course is designed to investigate the nature of language learning in a bilingual setting beginning with early childhood through the secondary school. Special emphasis is placed on first language development and second language acquisition, transference of skills and concepts, and comparative study of the two languages.

**EDCI 4305 INSTRUCTIONAL PLANNING AND CURRICULUM DEVELOPMENT**

This course will present principles of curriculum organization and planning based on learner needs. Students will design instruction to enable elementary students to achieve educational goals and objectives. Long-range planning, lesson cycle, and utilization of instructional media and community resources will be stressed. The scope, sequence and materials for teaching the elementary school curriculum will be studied. A minimum of 20 hours of fieldwork in the public schools is required. *Prerequisites: EDCI 4301, 4302.*

**EDCI 4306 INSTRUCTIONAL METHODOLOGY AND CLASSROOM MANAGEMENT**

This course focuses on instructional methods that emphasize practical application of teaching-learning theory and classroom organization and discipline management principles. Teaching strategies for delivering basic instruction and for developing higher-level thinking skills will be stressed. The scope, sequence, materials and methodologies for teaching the elementary school curriculum will be studied. A minimum of 25 hours of fieldwork in the public school is required. *Prerequisites: EDCI 4301, 4302, 4305.*

**EDCI 4307 SECONDARY PRE-STUDENT TEACHING PRACTICUM**

This field-based, pre-student teaching course focuses on the skills needed to meet the requirements of the Texas Teacher

Appraisal System. The application of the lesson plan cycle incorporating the essential elements of the Texas curriculum, principles and applications of reading skills in the content areas, application of tests and measurement techniques and instructional media will be included. The course also includes practical application of instructional methods, classroom management as well as curriculum organization, planning, and evaluation. The field component will be 20 hours.

*Prerequisites: EDCI 4301 and 4302.*

#### **EDCI 4308 CURRICULUM IN THE SECONDARY SCHOOL**

This field-based, pre-student teaching course focuses on application of Texas curriculum requirements incorporating Lesson Cycle for planning, implementing, and evaluating the teaching-learning process in secondary schools within legal and ethical guidelines. It includes basic principles and procedures of classroom management, with emphasis on discipline, teaching strategies, and procedures which include group and individual processes adapted to teacher personality and student needs and ability. Micro-teaching with appropriate instructional media and technology for the secondary learner will be included. The field component will be 25 hours. *Prerequisites: EDCI 4301, 4302, and 4307.*

#### **EDCI 4310 DIRECTED TEACHING - ESL**

(Student must also be enrolled in EDCI 4311-Elementary or EDCI 4398-Secondary.) This course must be taken by all undergraduate student teachers working toward an English-as-a-Second-Language endorsement for teaching in ESL language programs. Course requires observation and teaching experiences in a public school ESL classroom for 1/2 day, Monday through Friday, for half a semester. This work is done under the directions of a fully-certified teacher of the class to which the student is assigned. Periodic observations and evaluations will be done by the course instructor. Weekly seminars and individual conferences are a required part of the course. *Prerequisite: Approval by the UT Pan American Teacher Education Committee. Elementary prerequisites: EDCI 4301, 4302, 4305 and 4306. Secondary prerequisites: EDCI 4301, 4302, 4307 and 4308.*

#### **EDCI 4311 DIRECTED TEACHING - ELEMENTARY**

Course consists of observation, limited participation in teaching, then full teaching responsibility in an elementary public school (TEA accredited) classroom to which the student is assigned. This work is done under the guidance of the teacher of the class to which the student is assigned and the supervision of a college professor who makes periodic observations and evaluations of the student's progress. Seminars and individual conferences are required. Students are assigned to the public school classroom for a minimum number of hours as dictated by TEA. The number of hours per day and the number of days per week are regulated by TEA, UT Pan American Student Teaching Manual, and local school districts. *Prerequisites: Approval of UT Pan American Teacher Education Committee; EDCI 4301, 4302, 4305 and 4306.*

#### **EDCI 4312 DIRECTED TEACHING - EARLY CHILDHOOD**

Course consists of observation, limited participation in teaching, then full teaching responsibility in an elementary public school (TEA accredited) kindergarten classroom to which the student is assigned. This work is done under the guidance of the teacher of the class to which the student is assigned and the supervision of a college professor who makes periodic observations and evaluations of the student's progress. Seminars and individual conferences are required. Students are assigned to the public school classroom for a minimum number of hours as dictated by TEA, UT Pan American Student Teaching Manual, and local school districts. *Prerequisites: Approval of UT Pan American Teacher Education Committee; EDCI 4301, 4302, 4305 and 4306.*

#### **EDCI 4316 PRINCIPLES OF TEACHING WORKSHOP FOR ELEMENTARY/SECONDARY TEACHERS ADVANCED**

A workshop course designed for the person entering the teaching profession to study classroom management and to give the student the opportunity to develop instructional skills needed in the area of the instructional assignment. Special permission must be given to each participant before enrollment in the course.

#### **EDCI 4381 ADVANCED ESL**

An advanced ESL practicum for teachers of limited English-proficient students. This course will combine a theoretical and researched-based, language-learning framework with a field experience component. *Prerequisites: ENG 3319, 4328, 4329, and EDCI 3324, 3380.*

#### **EDCI 4398 DIRECTED TEACHING - SECONDARY II**

This course gives secondary students experience in responsible teaching at the secondary level under the guidance of public school supervising teachers and university supervisors. The course is designed primarily for secondary students who have a special education minor or who are seeking ESL endorsement. *Prerequisites: EDCI 4301, 4302, 4307, 4308 and approval of UT Pan American Teacher Education Committee.*

#### **EDCI 4399 DIRECTED TEACHING - ALL LEVELS**

This course is designed for students in kinesiology, art or music who need both elementary and secondary grade level placement plus an additional teaching field certification. Course requires classroom observations, classroom instruction,

professional duties, and university seminars. The student teacher will be placed in a state-accredited school under the guidance/supervision of an experienced classroom teacher and a university supervisor. *Prerequisite: Course entrance requirements must be met as specified in the UT Pan American Catalog. Approval of the UT Pan American Teacher Education Committee is also required.*

#### **EDCI 4611 DIRECTED TEACHING - ELEMENTARY**

Course consists of observation, limited participation in teaching, then full teaching responsibility in an elementary public school (TEA-accredited) classroom to which the student is assigned. This work is done under the guidance of the teacher of the class to which the student is assigned and the supervision of a college professor who makes periodic observations and evaluations of the student's progress. Seminars and individual conferences are required. Students are assigned to the public classroom for a minimum number of hours as dictated by TEA. The number of hours per day and the number of days per week are regulated by TEA, *UT Pan American Student Teaching Manual*, and local school districts. *Prerequisites: Approval of UT Pan American Teacher Education Committee; EDCI 4301, 4302, 4305 and 4306.*

#### **EDCI 4622 INSTRUCTIONAL AIDE INTERNSHIP**

Teacher aides may substitute one semester of internship for student teaching. The internship will consist of weekly seminars and on-site supervision under direction of a university supervisor. In order to qualify, teacher aides seeking elementary, secondary or all-level certification through this coursework must have been employed on that level for five consecutive years and must be currently employed as an instructional aide.

#### **EDCI 4641 STUDENT TEACHING - SECONDARY**

Student teaching for all options. One 36-hour teaching field, two 24-hour teaching fields, or one 48-hour teaching field in approved subjects would require a 12-week program which includes instruction on the university campus and full day student teaching in an approved school with weekly seminars which re-emphasize previous course content and its application to the classroom. *Prerequisites: EDCI 4301, 4302, 4307, 4308 and approval of UT Pan American Teacher Education Committee.*

#### **EDCI 4699 DIRECTED TEACHING - ALL LEVELS**

This course is designed for students in kinesiology, art or music who need both elementary and secondary grade level placement. Course requires classroom observations, classroom instruction, professional duties, and university seminars. The student teacher will be placed in a state-accredited school under the guidance/supervision of an experienced classroom teacher and a university supervisor. *Prerequisite: Course entrance requirements must be met as specified in the UT Pan American catalog. Approval by the Teacher Education Committee is also required.*

### **Alternative Certification Program**

#### **EDAC 4340 INTRODUCTION TO THE TEACHING PROFESSION**

This course, designed for both elementary and secondary Alternative Certification candidates, will orient students to the teaching profession, the lesson cycle, the teaching process, and real-life requirements of teaching in a modern public school. Following instruction in observation skills, students will spend 45 clock hours, including three full, consecutive days, in a public school setting where they will have the opportunity to prepare lessons and teach them in small and large group settings. ACP students will be evaluated in both the university and public school setting.

#### **EDAC 4342 INTRODUCTION TO EARLY CHILDHOOD EDUCATION**

Teachers of young children (birth to age 8) must understand how children develop socially, emotionally, physically, and cognitively so that they can plan developmentally appropriate experiences for each child. The major purpose of this course is to present current theories, knowledge and research about children that underlie decision-making in early childhood programs. A second purpose is to illustrate how theories and research findings evolve into curriculum organization, teaching strategies, and activities which are developmentally appropriate for young children.

#### **EDAC 4343 THE PROCESS OF READING**

The reading process and its correlates as it pertains to emergent literacy through the acquisition of comprehension processes; focus on the directed reading process for grades 1 through 3 and the directed reading-thinking process for grades 3 through 6; connections among the processes of language, writing, and reading; basic diagnosis techniques and assessment procedures as they relate to the reading/writing process.

#### **EDAC 4344 FIRST AND SECOND LANGUAGE ACQUISITION: THEORY AND METHODOLOGY**

A study of the teaching-learning process in a dual language classroom, focusing on research and methodology of first and second language acquisition by the elementary and secondary Hispanic student.

#### **EDAC 4345 THEORY AND METHODOLOGY OF INSTRUCTION PLANNING IN THE ELEMENTARY SCHOOLS**

This course will present principles of curriculum organization and planning based on learner needs. Students will design

instruction to enable elementary students to achieve educational goals and objectives. Implementation of the lesson cycle with utilization of instructional media will be stressed. The scope, sequence, and materials for teaching the elementary school curriculum will be studied. The course will include basic principles and procedures of instruction and classroom management, with emphasis on discipline and effective teaching strategies. Skills needed to meet the requirements of the Texas Teacher Appraisal System will also be addressed. Microteaching with appropriate instructional media and technology for the elementary learner will be included.

#### **EDAC 4348 INSTRUCTIONAL PLANNING METHODOLOGY AND CLASSROOM MANAGEMENT IN THE SECONDARY SCHOOLS**

This course focuses on the practical application of Texas curriculum requirements incorporating the lesson cycle for planning, implementing, and evaluating the teaching-learning process in secondary schools within legal and ethical guidelines. It includes basic principles and procedures of instruction and classroom management, with emphasis on discipline and effective teaching strategies. Skills needed to meet the requirements of the Texas Teacher Appraisal System will also be addressed. Microteaching with appropriate instructional media and technology for the secondary learner will be included.

#### **EDAC 4620 AND 4621 INTERNSHIP**

Internship will consist of on-site supervision. Seminars will meet weekly during the fall semester and for a minimum of 12 hours during the spring semester. Courses are designed to meet elementary or secondary requirements for teacher certification. May not be substituted for Student-Teaching. *Prerequisites: Baccalaureate degree and acceptance into the UT Pan American Alternative Certification Program.*

### **Reading**

#### **READ 3310 NARRATIVE AND EXPOSITORY ANALYSIS**

Examines the processes utilized to provide clues to understanding text: identification of relevant information of text and how events in the text are related; utilizing information of text to determine that which is not stated; evaluating and judging text; monitoring what is read for the purpose of clarifying text.

#### **READ 3313 INTRODUCTION TO READING — SECONDARY**

This course for the teacher of secondary reading will include the essential elements of reading for grades 7-12 in the State Board of Education Rules for Curriculum: word attack skills, vocabulary development, comprehension skills and reading skills applied to a variety of practical situations. Self-analysis and application of the skills to the teaching of reading in the secondary classroom will be emphasized.

#### **READ 3323 READING ACQUISITION**

Psychological, sociological, cultural, physical and linguistic factors related to reading acquisition; analysis of scope and sequence of word recognition processes: sight word vocabulary, phonics, structural, morphemic and contextual analysis; analysis of organizational and management parameters of reading instruction at the primary levels; diagnostic and prescriptive processes as they pertain to readiness, structural and phonetic analysis, vocabulary skills and classification skills.

#### **READ 3325 COGNITIVE DEVELOPMENT AND READING COMPREHENSION**

Examination of principles of comprehension; factors that affect comprehension of text; cognition and reading comprehension; components of the instructional program of reading comprehension and the correlation of reading processes to the writing processes; analysis of comprehension processes as they apply to various text structures; extending and enriching reading comprehension through literature; diagnostic and prescriptive processes as they pertain to literal, interpretive and evaluative comprehension processes.

#### **READ 3326 READING ACROSS THE CURRICULUM CONTENT AREAS**

Analysis of research, study and library skills; examination of reading as applied to the various content areas with focus on effective reading processes across text types and subject-specific vocabulary. *Prerequisites: READ 3323 and 3325.*

#### **READ 3327 READING AND THE EXCEPTIONAL CHILD**

Examination of the affective, cognitive, cultural and linguistic correlates of reading disabilities; examination of the characteristics of gifted readers; analysis of learner reading styles across the modalities of auditory, visual, kinesthetic and tactile; analysis of the principles of assessment and relationships to both remediation and enrichment. *Prerequisite: READ 3323.*

#### **READ 3329 READING AND WHOLE LANGUAGE LEARNING**

Reading as an integral part of the language arts process; study of the relationships between listening, speaking, reading and writing. *Prerequisite: READ 3323.*

#### **READ 3351 LITERATURE FOR THE YOUNG ADULT**

Emphasis is on the reading and evaluation of literature written for young adults (middle, junior and senior high school

students). The selection and reading of a variety of literary genre for the young adult that encompasses literature reflecting culture, ethics, and social diversity within a multicultural society will be included.

#### **READ 4351 DEVELOPMENTAL READING IN SECONDARY SCHOOLS**

Analysis of the relation of reading ability to academic achievement; reading skills needed in content area reading; reading difficulties encountered by students in secondary schools. *Prerequisites: READ 3323 and 3325.*

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### **Drama**

See Department of Communication

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### **Economics**

See Department of Accounting and Economics

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### **Education**

See Department of School Administration and Supervision

See Department of Curriculum and Instruction — Elementary and Secondary

See Department of Educational Psychology

See Department of Health and Kinesiology

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## **Department of Educational Psychology**

*Dr. Victor I. Alvarado, Chair*

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#### **Full-time Faculty**

Alvarado, Victor\* (EdD, Western Michigan University, 1976), Associate Professor, Educational Leadership, Guidance and Counseling.

Bernal, Ernesto\* (PhD, University of Texas at Austin, 1971), Professor, Educational Psychology (Personality, Social and Developmental; Gifted Education, Unbiased Assessment, and Bilingual Education).

Burns, Jo Ann\* (PhD, University of Oklahoma, 1979), Associate Professor, Special Education, Educational Psychology, and School Psychology.

Carlson, Ralph\* (PhD, University of Houston, 1974), Associate Professor, Psychology (Quantitative Methods, Statistics, and Theories of Personality).

Goertz, Mary Jean\* (EdD, Northern Arizona University, 1991), Assistant Professor, Educational Leadership, Gifted Education.

Linskey, Arthur Owen\* (PhD, University of North Carolina, 1957), Associate Professor, Guidance and Counseling and Educational Psychology.

Poelzer, Harold\* (PhD, Purdue University, 1993), Assistant Professor, Educational Psychology, Gifted Education.

Rodriguez, Ana Maria\* (EdD, University of Houston, 1976), Associate Professor, Guidance and Counseling.

Smith, George W.\* (EdD, Texas Tech, 1969), Professor, Guidance and Counseling.

#### **\*Graduate Faculty**

The Department of Educational Psychology offers an undergraduate and graduate area of Specialization (minor) in Generic



Special Education. The Department also offers the Master of Education degree (MEd) in Gifted Education, Educational Diagnostician, Guidance and Counseling, and a Master of Arts degree (MA) in School Psychology. Certificates and/or endorsements in Severely Emotionally Disturbed and Autistic, Emotionally Disturbed, Early Childhood for Exceptional Children, Gifted Education, Information Technology, Psychological Associate (TSBEP), Associate School Psychologist (TEA), and School Psychologist (NASP) are also offered by the Department.

A second very important focus for the Department is the coordination of all studies which are generic or core to all undergraduate and graduate degree programs. These include studies in Measurement, Statistics, Research, Educational Psychology, History and Philosophy of Education, Multicultural Education, Child Growth and Development, and Educational Technology.

**UC/GE Requirements for Students Seeking Interdisciplinary Studies Degree (Elementary Option III)  
Certification in Generic Special Education**

English 1301, 1302 (or 1387, 1388)

English – Sophomore Literature - 6 sem. hrs.

Language other than English – 6 sem. hrs.

Communication 1313

MATH 1340

Laboratory Science – 8 sem. hrs. (same science)

PSCI 1421 and 1422

Computer Science 1300 or CIS 1301

History 2313 or 2333, 2314 (2387, 2388 Honors)

Political Science 2313, 2314 (2387, 2388 Honors)

Kinesiology four semester hours activity courses

Three semester hours from:

ART 3381

MUS 3311

COMM 1303 or 2312

Electives – 12 hours

6 semester hours from two of the following areas:

ART 1301

COMM 2312, 3308, 4305

MUS 2307, 2308, 3311

6 semester hours from two of the following areas:

ANTH 1323, 2323, 2353

ECO 1301, 2353

PSY 1313, 1323

SOC 1313, 1323, 2333

**Baccalaureate in Interdisciplinary Studies, Elementary Option III: Certification - Generic Special Education**

*Courses in the combination area for major in Interdisciplinary Studies:*

READ 3323

READ 3325

ENG 4321

ENG 3313 or 3322 or 4318

MATH 2306

MATH 2307

BIOL 1401

BIOL 1402

BIOL 3414 or 3408 or 4314

GEOG 2313

*Professional Development and Methodology Courses:*

EDCI 4301

EDCI 4302

EDCI 4305

EDCI 4306

EDCI 4311

ED 4313

*Academic Specialization:*

ED 1305 Introduction to Special Education

ED 4301 Perception and Language Development

ED 4302 Perception and Cognitive Development  
ED 4303 Individualized Instruction for Mildly and Moderately Disabled  
ED 4309 Practicum in Generic Special Education  
ED 4371 Testing and Assessment of Exceptional Individuals  
KIN 4351 Adapted Kinesiology  
PSY 2345, 3305, 4318 (PSY 3305 preferred)

**Certification Requirements in Generic Special Education for Majors Other Than Interdisciplinary Studies**

ED 1305 Introduction to Special Education  
ED 2304 Field Experiences in Special Education  
ED 4301 Perception and Language Development  
ED 4302 Perception and Cognitive Development  
ED 4303 Individualized Instruction for Mildly and Moderately Disabled  
ED 4309 Practicum in Generic Special Education  
ED 4371 Testing and Assessment of Exceptional Individuals  
ED 4372 Exceptional Individual  
ED 4313 Directed Student Teaching (Generic Special Education) (for students without Baccalaureate degree)

**Directed Teaching Requirements for Generic Special Education**

A student seeking certification in Elementary or Secondary Education and minoring in Generic Special Education must complete one-half of his or her student teaching semester in an elementary or secondary classroom and one-half in a special education classroom. The following requirements must be met by students entering student teaching:

1. English 1301 and 1302 completed with a minimum of "C" in each course.
2. Have completed at least 7 semester hours in major with 2.25 grade point average.
3. Have completed at least 6 semester hours required in the minor with a 2.25 grade point average. If the student is to teach in his/her minor field, the student must have completed 7 of the semester hours in the minor.
4. The General Education requirements must be completed. (If no more than 6 semester hours are incomplete a department head may choose to conditionally admit a prospect.)
5. At least 90 semester hours of college work completed.
6. Satisfactory completion of: ED 1305, 4301, 4302, 4303, 4309, 4371.

**Endorsements:**

*Teaching the Severely Emotionally Disturbed and Autistic:*

1. Texas Teaching Certificate
2. 15 semester hours: EDPS 6300, EDPS 6301, EDPS 6311 and ED 6605 and 3 semester hours in autism.
3. 2.25 GPA in the 15 hours

*Early Childhood for Exceptional Children:*

1. Texas Teaching Certificate
2. 12 semester hours: ED 4371, ED 4372
3. 2.25 GPA in the 12 hours

*Endorsement in Gifted Education:*

1. Texas Teaching Certificate
2. 15 semester hours: EDPS 6330, 6331, 6332, 6333, 6334

*Endorsement in Information Technology:*

1. Texas Teaching Certificate
2. 9 semester hours: ED 3350, CS 1380, CS 3321

*Endorsement in Generic Special Education (graduate level):*

1. Texas Teaching Certificate.
2. EDPS 6300, 6 semester hours from: EDPS 6301, 6302, 6303; EDPS 6311 or PSY 6315; EDPS 6370; ED 6316 or ED 6317; 6 semester hours from: ED 5313, ED 6329, ED 6308, ED 6323.

**Student Teaching**

Please refer to the section on Student Teaching in the Department of Curriculum and Instruction - Elementary and Secondary.

## Graduate Program

### MEd Degree in Guidance and Counseling

The counselor is an integral part of the supportive services in public school education who serves to facilitate the growth and learning of students. The counselor, upon completion of the MEd degree in Guidance and Counseling will be professionally prepared to provide services in the following areas: Guidance Curriculum, Responsive Services, Individual Planning, and Systems Support. The counselor will provide direct services to students as a counselor, consult with others to address issues facing students, and coordinate services with programs and agencies within the school and in the community.

### Licensure Plan for the Texas Licensed Professional Counselor

Students who complete a 45 semester credit hour MEd may have partially fulfilled the requirements for a Licensed Professional Counselor (LPC). Please contact the Coordinator of the Counseling Program or Department Chair for additional requirements for LPC. Students need to take the following courses in sequence within the first 12 to 18 semester hours of the program and prior to taking the oral examination: ED 6360, ED 6363, ED 6362, and ED 6313.

A student seeking a Master of Education degree with a major in Guidance and Counseling, Counselor Certification, and/or a Licensure Plan should contact the Guidance and Counseling Coordinator in the Department of Educational Psychology for information regarding degree plans.

### Admission Requirements to Counseling and Guidance

1. Preliminary Admission to Counselor Education
  - a. A student is required to be admitted to graduate study by the university: Tentative, Probationary, or Clear (see catalog for admission requirements to the university).
  - b. Upon admission to graduate study by the university, a student may enroll in ED 6360 and/or ED 6363.
  - c. The student is required to submit an application for admission to the Master of Education degree program in Guidance and Counseling.
2. Provisional Admission to Counselor Education
  - a. A student must have Probationary or Clear Admission to graduate study by the university.
  - b. A student must have a minimum of 700 on the GRE (verbal and quantitative). The GRE score added to  $200 \times \text{GPA}$  (on the last 60 hours of upper division undergraduate coursework) must be equal to a minimum composite of 1300.
  - c. A student must satisfactorily complete ED 6360, ED 6363, and ED 6313 with a grade of A or B.
3. Formal Admission to Candidacy in Counselor Education

A student is required to:

  - a. Have Clear Admission to the university.
  - b. Complete Provisional admission requirements
  - c. Satisfactorily complete the Oral Examination.
  - d. Demonstrate competence in the helping relationship.
  - e. Have completed ED 6362 with a grade of A or B

\* A student may not enroll in ED 6368, ED 6365, or ED 6366 without formal admission to Counselor Education.

\* Students who are denied admission for any single reason may appeal to the Counselor Education faculty in the following manner:

1. File a letter of appeal.
2. Provide an essay that details significant life events, with an emphasis on achievements and responsibilities, that would indicate an ability to undertake graduate work and a probability for success in the field of counseling.
3. Complete an interview by a committee of Counselor Education faculty.

The faculty may accept the appeal, deny the appeal, or accept the appeal with conditions, *i.e.*, additional academic work, personal counseling, and/or similar experiences.

### Exit Requirements

1. Completion of all course requirements in a Planned Program, with a minimum of 3.25 grade-point average.
2. Satisfactory completion of the Written Comprehensive Examination (to be taken during enrollment in ED 6365 in the Guidance and Counseling program).

### MEd Degree in Educational Diagnostician

The primary purpose of the Educational Diagnostician is to serve on the appraisal team with responsibility in the appraisal of educational functioning, the appraisal of intelligence factors, the collection and analysis of data pertaining to sociological variables, and may assist in compiling information from various appraisal sources. The MEd Degree in Educational Diagnostician provides an opportunity for the student to develop skills as a psychometrist.

The following is the program for MEd Degree in Educational Diagnostician:

## Master of Education Degree in Educational Diagnostician

The student is responsible for checking with the Director of Special Education for specific departmental requirements.

### Major (all level)

Certificate  
Educational Diagnostician  
(6-9 hours)

#### Knowledge of the Exceptional Child

EDPS 6300 Individual Differences

NOTE: If students have taken ED 4372, they may substitute another course from this area. Choice of 3-6 hours from:

EDPS 6303 Learning Disabilities

EDPS 6301 The Emotionally Disturbed and Autistic Individual

EDPS 6302 Psychology of Mental Retardation

#### Knowledge of Psychoeducational and Other Diagnostic Procedures

(9-12 hours)

##### Required:

EDPS 6381 Psychological Assessment II

##### Choice of 6-9 hours from:

ED 6316 Development and Assessment of Psycholinguistic Processes

ED 6317 Perceptual Motor Development in Young Children

ED 6308 Foundations of Reading Instruction

ED 5313 Reading Tests

ED 6329 Diagnostic Teaching of Reading

EDPS 6380 Psychological Assessment I

#### Knowledge of Human Development

(3 hours)

##### Choice of 3 hours from:

ED 6311 Advanced Child Psychology

#### Knowledge of Learning

(6 hours)

##### Choice of 6 hours from:

EDPS 6311 Applied Behavioral Analysis

ED 6302 Advanced Educational Psychology

PSY 6325 Theoretical Issues in Learning

#### Knowledge of Instructional Modification, Including Practical Application (Remediation Techniques and Materials)

(6-9 hours)

##### Required:

ED 6604 Practicum in Educational Diagnostician

##### Choice of 3 hours from:

ED 6318 Diagnostic and Prescriptive Teaching

ED 6308 Foundations of Reading Instruction

#### Degree Requirements

(6 hours)

ED 6300 Introduction to Research

##### 6 semester hours from:

EDPS 6370 Educational and Psychological Measurement

EDPS 6354 Program Evaluation, or

ED 6367 Introduction to Statistical Methods

TOTAL

39 hours

### MEd Degree in Gifted Education

The purpose of the Master of Education degree program in Gifted Education is to prepare professionals to assume responsible leadership positions in the education of gifted and talented students. The objectives of the program are to provide in-depth study of:

- a. theory, knowledge, and practices in gifted education;
- b. instructional strategies, program development, and evaluation in gifted education;
- c. measurement and assessment theory in gifted education;
- d. the assessment and development of creativity; and
- e. the special problems of gifted individuals.

The Master's Degree Program in Gifted Education also provides opportunities for graduate students to develop professional

competency through applied practice in different educational settings. Graduate students may elect to participate in opportunities to research gifted individuals from bilingual or multicultural or heterogeneous socioeconomic populations.

### Requirements for Admission

In addition to the University's Graduate School requirements for admission, the Gifted Education Program's admission requirements are shown below.

1. The applicant must submit official transcript(s) of all prior undergraduate and graduate work, an official score report on the Graduate Record Examination (GRE), and completed application forms to the Office of Admissions and Records by the dates indicated in the catalog.
2. The applicant must hold a bachelor's degree from a college or university accredited by the regional accrediting association for the region in which the institution is located.
3. The applicant must have a 3.0 Graduate Admission Grade Point Average (GPA) or more on a 4.0 scale in the last 60 semester or 90 quarter hours completed.
4. The applicant must have a minimum composite Graduate Record Examination (GRE) score of 800 or more (sum of verbal and quantitative).
5. The applicant must submit at least three recommendations from persons in a position to judge the professional and academic potential of the candidate.
6. The applicant must participate in a structured interview with the chairperson of the Department of Educational Psychology and the faculty member coordinating the Gifted Program.
7. The applicant must hold a valid teaching certificate and have taught in a public or private school setting for a minimum of two years.

### Degree Requirements

The degree of Master's Degree of Gifted Education provides the option of a 39-hour thesis program or a 39-hour non-thesis program. Both programs consist of a core of 24 hours including two 3-hour practicum courses, the first focusing on teaching gifted students and the second focusing on administration of gifted programs; 9 hours of designated electives; and 6 hours of thesis or 6 hours of applied research.

	<i>Semester Credit Hours</i>	
	<i>Thesis</i>	<i>Non-Thesis</i>
a. Required Core	24	24
b. Designated Electives	9	9
c. Free Electives	0	0
Thesis	6	N/A
Applied Research Project N/A	6	
Total semester credit hours	39	39

### Curriculum

#### Gifted Education Required Core Courses

EDPS 6330 Identifying the Gifted and Talented\*  
 EDPS 6331 Curriculum, Methods, and Materials for the Gifted and Talented\*  
 EDPS 6332 Creativity and the Gifted and Talented\*  
 EDPS 6333 Counseling the Gifted and Talented\*  
 EDPS 6334 Practicum I in Gifted Education\*  
 EDPS 6335 Practicum II in Gifted Education  
 ED 6300 Introduction to Research  
 ED 6367 Introduction to Statistical Methods

#### Designated Elective Courses

EDPS 6337 Administration of Gifted and Talented Programs  
 EDPS 6338 The Atypical Gifted Child  
 EDPS 6340 Critical and Creative Thinking for Gifted Students  
 EDPS 6341 The Gifted Student in the Visual and Performing Arts  
 EDPS 6342 Seminar in Gifted Education  
 EDPS 6344 The Gifted Child in the Regular Classroom  
 EDPS 6346 Independent Study  
 ED 6302 Advanced Educational Psychology  
 ED 6311 Advanced Child Psychology  
 EDPS 6370 Educational and Psychological Measurement  
 ED 6367 Introduction to Statistical Methods  
 EDPS 6351 Intermediate Statistics  
 EDPS 6354 Program Evaluation

## Thesis and Non-Thesis Options

ED 7300 Thesis

ED 7301 Thesis

EDPS 7302 Applied Research Project (6 hours)

\*Courses required for an endorsement in Gifted Education (TEA).

## MA Degree in School Psychology

The purpose of the 60 semester hour Master's Degree Program in School Psychology is to prepare school psychologists for those schools and agencies which provide treatment and educational programs in a society which is linguistically, socioeconomically, and socioculturally pluralistic. The thrust of the program will be for students to develop and acquire the knowledge necessary to conduct applied and basic research, psychological and educational assessment, cognitive-behavioral-psychodynamic psychotherapy, and interdisciplinary consultation with teachers, administrators, parents, and community agencies.

School psychologists will be educated to be consultants to other professionals such as counselors, teachers, and administrators; to provide psychological and educational diagnosis and assessment; to provide direct psychotherapy and cognitive-behavioral intervention; and to provide research and evaluation services to school districts and agencies

Degree recipients will receive preparation for credential(s):

- a. Certification as Psychological Associate by Texas State Board of Examiners of Psychologists.
- b. Certification as an Associate School Psychologist by Texas Education Agency.
- c. National Certification as a School Psychologist by National Association of School Psychologists.

## Requirements for Admission

In addition to the University Graduate School requirements for admission, the School Psychology Program admission requirements are shown below.

1. The applicant must have a 3.0 Grade Point Average (GPA) or more on a 4.0 scale in the last 60 semester or 90 quarter hours completed.
2. The applicant must submit Graduate Record Examination (GRE) scores.
3. The applicant must submit at least three letters of recommendation from persons in a position to judge the professional and academic potential of the candidate.
4. The applicant must submit a letter of application with a statement of reasons for pursuing a Master's degree in School Psychology to the coordinator for the School Psychology program.

## Degree Requirements

The degree of Master of Arts in School Psychology provides for a 60 semester credit hour thesis program or a 60 semester credit hour non-thesis program. Both programs consist of a core 9 semester credit hours with 27 semester credit hours as designated electives.

	<i>Semester Credit Hours</i>	
	<i>Thesis</i>	<i>Non-Thesis</i>
a. Required Core	9	9
b. Designated Electives	27	27
c. Free Electives	12	18
Thesis	6*	0
Internship	6	6
TOTAL:	60*	60**

\*If a student elects to complete a thesis, 6 semester credit hours of thesis can be credited toward the 60 semester credit hours required for a Master's degree in School Psychology.

\*\*Students who elect a non-thesis program will be required to prepare and submit a research paper to a professional conference for presentation.

## Maintaining graduate student status in the School Psychology Program:

1. A student must maintain a GPA of 3.0 or greater.
2. A student may earn two "C"s. However, upon earning the third "C," he or she will be terminated from the Program in School Psychology.
3. A student must repeat a course in which a grade of "C" is earned. The second grade earned in a course does not delete the first grade and thus does not alter the two-"C" rule described in 2. above.

## Curriculum

Minimum of 9 hours required from the area of Psychology Core Courses:

(required) PSY 6320 Current Perspectives in Physiological Psychology  
(required) PSY 6325 Theoretical Issues in Learning  
(required) PSY 6311 Advanced Studies in Personality Theory  
PSY 6305 Advanced Studies in Psychopathology  
EDPS 6301 Emotionally Disturbed and Autistic  
ED 6302 Advanced Educational Psychology  
PSY 6330 Advanced Studies in Child Development  
PSY 6300 Systems and Theories

Minimum of 6 hours required from the area of measurement:

(required) EDPS 6370 Educational and Psychological Measurement  
EDPS 6371 Models of Unbiased Assessment  
EDPS 6373 Seminar in Quantitative Methods

Minimum of 3 hours required from the area of Research Design:

(required) ED 6300 Introduction to Research

Minimum of 3 hours required from the area of Statistics:

(required) ED 6367 Intro. to Statistical Methods  
EDPS 6351 Intermediate Statistics  
EDPS 6352 Multivariate Analysis  
EDPS 6353 Seminar in Statistical Analysis  
EDPS 6354 Program Evaluation

Minimum of 9 hours required from the area of Psychological Assessment:

(required) EDPS 6380 Psychological Assessment I  
(required) EDPS 6381 Psychological Assessment II  
(required) EDPS 6382 Psychological Assessment III  
EDPS 6383 Psychological Assessment IV

Minimum of 3 hours required from the area of Individual Differences:

(required) EDPS 6300 Individual Differences  
EDPS 6301 Emotionally Disturbed and Autistic  
EDPS 6302 Psychology of Mental Retardation  
EDPS 6303 Learning Disabilities

Minimum of 3 hours required from the area of Bilingual/Multicultural Individual:

ED 6322 Bilingual Child  
ED 6388 Sociocultural Foundations  
SOVI 6361 Race and Ethnic Relations  
SOVI 6362 Mexican-American Society  
COMM 6322 Seminar in Culture and Communication  
COMD 6355 Normal and Abnormal Language Development of Culturally and Linguistically Diverse Populations

Minimum of 6 hours required from the area of Intervention:

(required) EDPS 6310 Introduction to School Psychology  
EDPS 6311 Applied Behavioral Analysis  
PSY 6315 Advanced Behavioral Management  
ED 6329 Diagnostic Teaching of Reading  
ED 6362 Theories and Techniques  
ED 7104 Seminar in Educational Psychology  
EDPS 7352 Psychotherapy for Children

Minimum of 3 hours required from the area of Internship:

(required) EDPS 7350 Internship I  
EDPS 7351 Internship II

Thesis: ED 7301 Thesis  
ED 7302 Thesis

**Course Descriptions** — *Additional courses may be found in other Education Departments.*

## Education

### ED 1302 PROBLEMS IN SPECIAL EDUCATION

On Demand

Psychological principles basic to professional education will be stressed. The ability to understand children at all levels of

the school along with the personal growth of the prospective teacher will be considered. Does not count toward certification.

### **ED 1305 INTRODUCTION TO THE EXCEPTIONAL INDIVIDUAL**

Fall, Spring, Summer

Focus on this course will include the identification and analysis of characteristics of exceptional individuals. This will include the different types of exceptional individuals and their educational and treatment program needs. Historical and current social, cultural, legal, educational and professional topics related to the development of special education will be covered.

### **ED 2304 FIELD EXPERIENCES IN SPECIAL EDUCATION**

Fall, Spring

Examination of the affective, behavioral, cognitive, cultural and linguistic correlates of learning disabled and mentally retarded individuals; identification of professional publications, organizations and resources for and about special population; examination of techniques and approaches for family involvement. *Prerequisite: ED 1305 or approval of instructor.*

### **ED 3350 INFORMATION TECHNOLOGY**

Operational skills in computer applications to educational word processing, data base, worksheet, desktop publishing, testing, graphics and communication. Emphasis will be given to a critical review of methodology for instruction and management of instruction. *Prerequisite: CS 1300 or consent of instructor.*

### **ED 4301 PERCEPTION AND LANGUAGE DEVELOPMENT**

Spring, Summer

The content of this course will include: perception and its relationship to language. There will be an emphasis on oral language development and psycholinguistic process as it relates to the cognitive disabled (mildly and moderately) Hispanic bilingual child. *Prerequisite: ED 1305 or approval of instructor.*

### **ED 4302 PERCEPTUAL AND COGNITIVE DEVELOPMENT**

Fall, Summer

The content of the course will include the neurological bases for perception and cognition. Cognition, problem solving, information processing multi-sensory and perceptual-motor intervention theories will be emphasized. *Prerequisites: ED 1305 or approval of instructor.*

### **ED 4303 THEORIES OF COGNITIVE AND BEHAVIORAL INTERVENTIONS FOR THE MILDLY AND MODERATELY DISABLED**

Fall, Summer

Analysis of diverse intervention processes and theories in the following areas: task analysis, behavior modification, successive and simultaneous processing of information. *Prerequisites: ED 1305 or approval of instructor.*

### **ED 4309 CORRELATES AND THE EXCEPTIONAL INDIVIDUAL**

Fall, Spring

Examination of the affective, behavioral, cognitive, cultural and linguistic correlates of individuals with disabilities: identification of professional knowledge and legal aspects; analysis of the principles of assessment and relationships to remediation; examination of behavior management, community resources, legal aspects and transition programs involving disabled individuals. *Prerequisites: ED 1305, 4301, 4302, 4303, 4371. ED 4301 and/or 4303 may be taken simultaneously.*

### **ED 4313 DIRECTED TEACHING — GENERIC SPECIAL EDUCATION**

Fall, Spring

(Students must also be enrolled in ED 4311.) This language learning disabilities course must be taken by all undergraduate student teachers working toward a special education endorsement for teaching the language/learning disabled child. Course requires observation and experiences in a public school L/LD classroom for 6 days, Monday through Friday, a semester. This work is done under the direction of the fully certified teacher of the class to which the student is assigned. Periodic observations and evaluations will be done by the course instructor. Weekly seminars and individual conferences are a required part of the course. *Prerequisite: Approval by the Teacher Education Committee.*

### **ED 4371 TESTING AND ASSESSMENT OF EXCEPTIONAL INDIVIDUALS**

Fall, Spring

The content of this course will include: norm and criterion reference measures, systematic observational procedures, and clinical observation techniques. There will be an emphasis on the assessment of handicapped individuals who are at variance linguistically and socioculturally. *Prerequisites: ED 1305.*



**ED 4372 INDIVIDUAL DIFFERENCES**

Fall, Summer

The content of this course will include the nature of individual differences with emphasis on the learning characteristics and application of research and theory to special education programs. There will be an emphasis on psychological, sociocultural, and physical characteristics of exceptional individuals. Analysis of major research regarding contemporary trends, issues, and programs for exceptional individuals will be presented. *Prerequisites: ED 1305, 4302, 4303, 4309, 4371 or approval of instructor.*

**ED 6100 SEMINAR IN COUNSELING AND GUIDANCE**

Fall, Spring, Summer

The development of skills related to the helping profession represented through a series of six steps. Primarily for in-service with counselors and teachers. A student may receive from 1 to 6 semester hours credit. *Prerequisite: Permission of instructor.*

**ED 6101 SEMINAR IN COUNSELING AND GUIDANCE**

Fall, Spring, Summer

The development of skills related to the helping profession represented through a series of six steps. Primarily for in-service with counselors and teachers. A student may receive from 1 to 6 semester hours credit. *Prerequisite: Permission of instructor.*

**ED 6102 SEMINAR IN COUNSELING AND GUIDANCE**

Fall, Spring, Summer

The development of skills related to the helping profession represented through a series of six steps. Primarily for in-service with counselors and teachers. A student may receive from 1 to 6 semester hours credit. *Prerequisite: Permission of Instructor.*

**ED 6103 SEMINAR IN COUNSELING AND GUIDANCE**

Fall, Spring, Summer

The development of skills related to the helping profession represented through a series of six steps. Primarily for in-service with counselors and teachers. A student may receive from 1 to 6 semester hours credit. *Prerequisite: Permission of Instructor.*

**ED 6104 SEMINAR IN COUNSELING AND GUIDANCE**

Fall, Spring, Summer

The development of skills related to the helping profession represented through a series of six steps. Primarily for in-service with counselors and teachers. A student may receive from 1 to 6 semester hours credit. *Prerequisite: Permission of Instructor.*

**ED 6300 INTRODUCTION TO RESEARCH**

Fall, Spring, Summer

A study of research methods in Education including settings which culminate in the successful completion of a research project/paper. Students also will demonstrate skills in the utilization of research facilities and will be introduced to graduate programs in Education. Must be taken or be in progress when applying for orals.

**ED 6302 ADVANCED EDUCATIONAL PSYCHOLOGY**

Fall, Spring, Summer

A research approach to the areas of teaching and learning. Human learning, conditions for effective learning, interference with learning and behavioral objectives will be emphasized. *Prerequisite: ED 3302 or equivalent.*

**ED 6304 HUMAN GROWTH AND DEVELOPMENT**

Advanced study in the application of life-span developmental theories to human behavior learning and personality. Includes an understanding of the nature and needs of individuals at all developmental levels from pre-natal through old age.

**ED 6311 ADVANCED CHILD PSYCHOLOGY**

Spring

This is an advanced study of children from conception to puberty, or from the pre-school through the elementary level, with emphasis on the role played by maturation and learning. The course will include a study of recent research dealing with theories of cognitive unfolding and personality integration. *Prerequisite: ED 3311 or equivalent.*

**ED 6313 PSYCHOEDUCATIONAL ASSESSMENT**

Develops conceptual and practical bases for understanding the individual and group testing, non-test appraisal procedures, preparation of reports, and group testing, non-test appraisal procedures, preparation of reports, and the diagnostic implications of language, cultural, and sex factors. *Prerequisite: Graduate standing.*

**ED 6316 DEVELOPMENT AND ASSESSMENT OF PSYCHOLINGUISTIC PROCESSES**

Fall, Summer I

The course is designed to acquaint the student with the physiological mechanisms involved in the acquisition of speech and language and to define those social, psychological and perceptual aspects that contribute to the developmental language tasks appropriate for various chronological and mental age levels. The student will be guided toward an understanding of the relationship between aural and written language and social behavior. Observation of children will be included in the requirement.

**ED 6317 PERCEPTUAL MOTOR DEVELOPMENT IN YOUNG CHILDREN**

Fall, Summer I

This course is intended to impart a knowledge of the perceptual processes and how they affect the motor development of the child. The tactual-kinesthetic (haptic), auditory and visual sense modalities will be defined and discussed separately and in relation to each other. Implications for classroom behavior and academic performance will be discussed. There will be opportunities for observation of children manifesting any one or combinations of perceptual deficits.

**ED 6318 DIAGNOSTIC AND PRESCRIPTIVE TEACHING**

Spring, Summer II

This course is intended to enable the teacher to take all data - psychological, social and educational - and translate these into a course of action for the teacher and the child, including individualized selections of methods, materials and techniques. Criteria and procedures for ongoing evaluation will be an integral part of the course. Actual cases will be utilized and the student will have the opportunity to prepare diagnosis and develop educational prescriptions. Attention will be given to effective, meaningful reporting to other professionals as well as parents. *Prerequisite: ED 6316, ED 6317.*

**ED 6320 MICROCOMPUTERS IN STUDENT SERVICES**

This course is designed as a beginning course for counselors and teachers who want to learn how to use a microcomputer as a personal tool, an office management and instructional tool, and in other ways which are relevant to student services personnel.

**ED 6336 PROBLEMS IN EDUCATION**

Fall, Spring, Summer

This course's major emphasis is on current innovations in education. Students will conduct research related to selected problems. Experiences of the student may include conducting action research, working with educational determinants, new education programs, and/or working with classroom teachers and other persons in the community in order to improve the educational program. Credit may be applied toward the graduate programs in education when the appropriate problem is chosen by the student. This course may be repeated once for credit.

**ED 6340 FIRST AND SECOND LANGUAGE DEVELOPMENT**

This course will present a contrastive analysis of the development of a first language in the home environment and acquisition of a second language in the school setting, with a special focus on the Hispanic bilingual student. Possible reinforcement and predictable interference between the two languages will be studied, with emphasis on social and academic language proficiency along an informal-formal continuum. The bilingual proficiency of the teacher will be examined along an informal-formal continuum.

**ED 6345 LIFESTYLE AND CAREER DEVELOPMENT**

A survey and analysis of the processes of assisting the individual to choose an occupation, prepare for it, enter it, and progress in it. The course seeks to train leaders who can help individuals make decisions and choices involved in planning a future and building a career.

**ED 6351 FIRST AND SECOND LANGUAGE DEVELOPMENT**

This course will present a contrastive analysis of the development of a first language in the home environment and the acquisition of a second language in the school setting, with a special focus on the Hispanic bilingual student. Possible reinforcement and predictable interference between the two languages will be studied, with emphasis on social and academic language proficiency along an informal-formal continuum. The bilingual proficiency of the teacher will be examined along an informal-formal continuum.

**ED 6360 INTRODUCTION TO COUNSELING**

This course is designed to orient the student to the counseling profession, including historical, professional, and ethical trends

and issues. The course overviews selected processes and theories with a focus on the acquisition of counseling skills necessary to develop and maintain a counseling relationship. *Prerequisite: Graduate standing.*

#### **ED 6362 TECHNICAL PSYCHOTHERAPY**

Fall, Spring, Summer

A survey of the field of psycho-therapy, comparing the contributions of psychoanalysis, non-directive therapy and behavior therapy. Consideration will be given to such specialized approaches as group therapy, play therapy and family therapy. Arrangements will be made to visit local facilities utilizing a variety of these therapeutic techniques. *Prerequisite: ED 6360 and permission of the instructor.*

#### **ED 6363 PERSONAL ADJUSTMENT**

Fall, Spring, Summer

Discussions and practical application of group dynamics within a framework of group therapy. Limited to 20 graduate students accepted in the counseling and guidance program.

#### **ED 6365 COUNSELING PRACTICUM I**

Fall, Spring, Summer

A competency-based practicum. Students will engage in counseling and in guidance planning through practical experiences in laboratory and in public schools. Seminars for discussion and critiquing by the student will be the theme of class sessions. Students will be required to recognize and identify counseling techniques and philosophies used in this practicum. Admission to course is dependent on admission to counselor education candidacy. *Prerequisites: ED 6360, ED 6362, ED 6363. Course must be taken within last 9 hours of program. Limit 12 students.*

#### **ED 6366 COUNSELING PRACTICUM II**

Fall, Spring, Summer

Problems course involving a practicum in testing and counseling. Emphasis will be on diagnosis and therapy. The student will present a case study/studies which will be bound in two copies to be placed in the library and in the office of counselor education.

#### **ED 6367 INTRODUCTION TO STATISTICAL METHODS**

Fall, Spring, Summer I

The content of this course will include central tendency; variance; normal, t, chi square, and F distributions; bivariate correlation and regression analysis, t-test between means, goodness of fit and test of independence of chi square; one-way and two-way and three-way factorial ANOVA. There will be an emphasis on hypothesis testing; Type I and II errors; an understanding of statistical significance and practical or functional significance.

#### **ED 6368 GROUP COUNSELING**

Fall, Spring, Summer

The purpose of this course is to develop an understanding of group processes, theories and techniques. Demonstrated competency in this knowledge and application of group procedures will be required. Limit 20 students. *Prerequisites: ED 6360, ED 6362, ED 6363.*

#### **ED 6604 PRACTICUM IN EDUCATIONAL DIAGNOSTICIAN**

Summer

Supervised practical experience in psychoeducational assessment and therapy. This culminating activity will provide intensive training in the entire educational process for a child, whereby data is gathered, a diagnosis is developed and implemented, and an ongoing evaluation is designed and monitored to serve as a measure of the child's social and educational growth. Last 6 hours or last semester of work.

#### **ED 6605 PRACTICUM FOR TEACHING THE EMOTIONALLY DISTURBED**

Summer

The course emphasizes, under the supervision of a fully endorsed teacher of the emotionally disturbed, the day to day techniques and instructional procedures for working with emotionally disturbed in a public school setting. Each student must spend a minimum of 120 clock hours in the classroom and maintain a log of all pertinent experiences. *Prerequisites: ED 5372, ED 6376, ED 6374, and 6 hours of Psychology or its equivalent.*

#### **ED 7300 THESIS**

On Demand

#### **ED 7301 THESIS**

On Demand

## **Educational Psychology**

### **EDPS 6300 INDIVIDUAL DIFFERENCES**

The content of this course will include the nature of individual differences with emphasis on the learning characteristics and application of research and theory to special education programs. There will be an emphasis on psychological, sociocultural, and physical characteristics of exceptional individuals. Analysis of major research regarding contemporary trends, issues, and programs for exceptional individuals will be presented.

### **EDPS 6301 EMOTIONALLY DISTURBED AND AUTISTIC**

The content of this course will include etiology, symptoms of the condition of emotional disturbance and autism and their implication for the family, community, vocational adjustment and education.

### **EDPS 6302 PSYCHOLOGY OF MENTAL RETARDATION**

The content of this course will include causes, symptoms, and implications of mental retardation to the family, community, vocational adjustment and education.

### **EDPS 6303 LEARNING DISABILITIES**

The content of this course will include the etiology and symptoms of the condition of cognitive disabilities and its implications for the family, education, community and vocational adjustment.

### **EDPS 6310 INTRODUCTION TO SCHOOL PSYCHOLOGY**

The content of this course will include the role of the school psychologist in schools and agencies, ethics, knowledge of consultation with parents, students, teachers, administration, and community agencies in a pluralistic society.

### **EDPS 6311 APPLIED BEHAVIORAL ANALYSIS**

The content of this course will include behavioral and cognitive learning theory, task analysis, behavioral and cognitive behavioral therapy for individuals manifesting academic, interpersonal and intrapersonal adjustment problems.

### **EDPS 6312 CONSULTATION**

This course will include theory, techniques, and research concerning home-school-agency-system based consultation services or indirect service delivery models for individuals or clients who are from a society which is linguistically, socioeconomically, and socioculturally pluralistic. There will be an emphasis on knowledge and concepts related to consultation with special and general education teachers, parents and families, community agencies and systems who deliver services to individuals and clients.

### **EDPS 6330 IDENTIFYING THE GIFTED AND TALENTED**

The content of this course will include discussion of the concepts and definitions of giftedness; characteristics/behaviors/needs of students within the various areas of giftedness; special populations, including the culturally-diverse gifted; norm referenced instruments used to identify and assess the gifted and talented; and analysis of student identification and placement procedures.

### **EDPS 6331 CURRICULUM, METHODS, AND MATERIALS FOR THE GIFTED AND TALENTED**

The content of this course will include discussion of the concept of "differentiation"; analysis of models for developing or modifying learning experiences for gifted and talented students in heterogeneous and homogeneous grouping arrangements; identification and assessment of curriculum activities, instructional strategies, and teaching techniques used to develop cognitive and affective needs of gifted learners; and analysis of instructional materials to support the implementation of differentiated learning experiences for the gifted and talented.

### **EDPS 6332 CREATIVITY AND THE GIFTED AND TALENTED**

The content of this course will include theoretical explanations for creativity and its application to thinking processes, persons, products and environments; analysis of how creative potential may be identified through norm-referenced instruments; understanding of models for teaching and learning creative thinking skills; and assessment of procedures and instructional materials for enhancing creativity.

### **EDPS 6333 COUNSELING THE GIFTED AND TALENTED**

The content of this course will include research concerning the social and emotional needs of the gifted and talented and discussion of related issues, including perfectionism, underachievement, and depression; analysis of counseling and guidance

models for the gifted and talented; and understanding of counseling techniques and strategies, including sociodrama and bibliotherapy, used with gifted learners.

#### **EDPS 6334 PRACTICUM I IN GIFTED EDUCATION**

The content and activities of this course will include supervised experiences in teaching gifted students in school settings; design, implementation, and assessment of curriculum, methods, and materials appropriate for gifted and talented learners; scheduled seminars and conferences for discussing and critiquing practicum experiences.

#### **EDPS 6335 PRACTICUM II IN GIFTED EDUCATION**

The content and activities of this course will include supervised experiences in administering programs for gifted students; design, implementation, and assessment of procedures that identify and provide services for gifted and talented students; scheduled seminars and conferences for discussing and critiquing practicum experiences.

#### **EDPS 6337 ADMINISTRATION OF GIFTED AND TALENTED PROGRAMS**

The content of this course will include discussion of the organization and administration of gifted programs from pre-school to grade 12; analysis of the role of the administrator in providing programs and improving instruction for gifted and talented students; and analysis of the problem-solving process in resolving unique issues in gifted programs.

#### **EDPS 6338 THE ATYPICAL GIFTED CHILD**

The content of this course will include discussion of the characteristics/behaviors/needs of atypical gifted students; analysis of procedures for identifying and developing programs for the atypical gifted; and understanding the social and emotional needs of this special population of students.

#### **EDPS 6340 CRITICAL AND CREATIVE THINKING IN GIFTED STUDENTS**

The content of this course will include research related to hemisphericity and its relationship to critical and creative thinking in the intellectually and creatively gifted; identification, analysis, and evaluation of teaching strategies that encourage critical and creative thinking in gifted students from pre-school to grade 12. This course is designed for teacher/administrators working with gifted students for a minimum of three years. Permission of the instructor is required.

#### **EDPS 6341 GIFTED STUDENTS IN THE VISUAL AND PERFORMING ARTS**

The course content will include: analysis of procedures of identification and program development for elementary and secondary students gifted in the visual and performing arts. Current issues and trends in the visual and performing arts will be discussed as well as meeting individual talent needs in the classroom, mentorships and special classes.

#### **EDPS 6342 SEMINAR IN GIFTED EDUCATION**

The content of the course will include research and evaluation of current trends and issues in gifted education. The course will require an in-depth study of a self-selected topic in gifted education.

#### **EDPS 6344 GIFTED CHILD IN THE REGULAR CLASSROOM**

The content of this course includes discussion of issues and procedures related to the needs of intellectually and creatively gifted children in the regular classroom; analysis of curriculum methods, teaching strategies, materials, and evaluation techniques for use with gifted children in the regular classroom setting.

#### **EDPS 6346 INDEPENDENT STUDY**

Designed to give the student experience in research and in-depth theoretical readings in a substantive area not normally covered within the standard courses. Research projects and advanced readings will vary according to student interest and faculty availability.

#### **EDPS 6351 INTERMEDIATE STATISTICS**

The content of this course will include partial, semi-partial, and multiple correlation and regression analysis; discriminant analysis; experimental design Models I, II, III; ANOVA: repeated measures, higher-order factorial, nested, analysis of covariance; methods of multiple comparisons; introduction to linear models and MANOVA; Hotelling's T-squared, Wilk's lambda, Lawley-Hotelling trace, Roy's GCR. There will be an emphasis on the blending of research design and statistical analysis. *Prerequisite: EDPS 6367 or consent of instructor.*

#### **EDPS 6352 MULTIVARIATE ANALYSIS**

The content of this course will include introduction to exploratory and confirmatory factor analysis; principal component theory; number of factor extracted; path analysis; canonical analysis; and analysis of covariance structures. *Prerequisite: ED 6367 and EDPS 6351 or equivalent or consent of instructor.*

**EDPS 6353 SEMINAR IN STATISTICAL ANALYSIS**

The content of this course will include various advanced topics in statistical analysis. This course may be repeated once for credit. *Prerequisite: Consent of instructor.*

**EDPS 6354 PROGRAM EVALUATION**

The course in program evaluation includes formative and summative evaluation through decision, program modification, objectives, outcome, and performance-based evaluation models which affect policy and program change. This course will require assessing and interpreting a project in program evaluation.

**EDPS 6370 EDUCATIONAL AND PSYCHOLOGICAL MEASUREMENT**

The content of this course will include scaling; variance; scores derived through linear and nonlinear transformations; traditional item analysis and introduction to latent trait models; reliability and true score theories; partitioning total variance into true and measurement error variance and measurement error variance into its different sources; validity, content, predictive, concurrent, and construct; models of unbiased assessment. These topics will be related to the construction and interpretation of norm and criterion reference measures, teacher-made test and systematic observational scales.

**EDPS 6371 MODELS OF UNBIASED ASSESSMENT**

The content of this course will include an introduction to the definition of statistical bias; possible sources of bias; bias as related to validity; and models of unbiased assessment such as Regression or Cleary Model, Constant Ratio Model, Conditional Probability Model, Equal Probability Model, Equal Risk Model, Culture-Modified Criterion Model, Threshold Utility Model, and Pluralistic Model. Applications of statistical models to real data with a view to publication are required.

*Prerequisite: EDPS 6370 and ED 6367 or consent of instructor.*

**EDPS 6373 SEMINAR IN QUANTITATIVE METHODS**

The content of this course will include various topics in measurement and scaling, such as item response theory and multidimensional scaling. This course may be repeated once for credit.

**EDPS 6380 PSYCHOLOGICAL ASSESSMENT I**

The content of this course will include administering, scoring, and interpreting: Stanford-Binet Intelligence Scale, human figure drawings, and Kaufman-ABC Test. Opportunity for administering these measures in Spanish or English will be provided. *Prerequisite: EDPS 6370 or consent of instructor.*

**EDPS 6381 PSYCHOLOGICAL ASSESSMENT II**

The content of this course will include the administration, scoring, and interpretation of Raven's Progressive Matrices (in pantomime), Wechsler Scales (WAIS-R, WISC-R, WPPIS), sociocultural, and adaptive behavior scales. Models of unbiased assessment for children whose socioeconomic, sociocultural, and linguistic backgrounds are at variance from the American Society core culture will be covered. *Prerequisite: EDPS 6370 or consent of instructor.*

**EDPS 6382 PSYCHOLOGICAL ASSESSMENT III**

The content of this course will include assessment of limited English and/or Spanish proficient individuals, language proficiency measures, developmental scales and age scales, and achievement tests. Opportunity for administering these measures in Spanish or English will be provided. *Prerequisite: EDPS 6370 and EDPS 6380 or consent of instructor.*

**EDPS 6383 PSYCHOLOGICAL ASSESSMENT IV**

The content of this course will include administration, scoring, and interpretation of self-report inventories, projective drawings, and introduction to projective techniques. *Prerequisite: EDPS 6370, 6380, 6381 and PSY 6310 or consent of instructor.*

**EDPS 6384 TOPOGRAPHIC BRAIN MAPPING AND COGNITIVE ASSESSMENT**

A course designed to give operational knowledge of Topographic Brain Mapping for the purpose of assessing cortical brain activity. Emphasis will be given to the research and applications of TBM in relationship to cognitive processes associated with learning and educational practices. *Prerequisites: PSY 6320, ED 6300, ED 6367, and EDPS 6351.*

**EDPS 6385 SPECIALIZED ASSESSMENT TECHNIQUES AND PROGRAM PLANNING FOR TEACHING INDIVIDUALS WITH AUTISM AND PERVASIVE DEVELOPMENTAL DISORDERS**

Characteristics and specialized assessment methods and instruments used in classroom programming will be presented. Theories and strategies for effective instruction and management of classroom behavior of autistic students based on assessment. Course will include compliance training, communication, social skills, task and discrepancy analysis, transitional issues, and vocational justification for this change: training, and crisis intervention with emphasis on the culturally and linguistically diverse.

### **EDPS 7104 SEMINAR IN EDUCATIONAL PSYCHOLOGY**

The content of this course may include advanced topics in research methodology, psychological assessment, and intervention methods. This course may be repeated twice for credit.

### **EDPS 7302 APPLIED RESEARCH PROJECT**

A problem-oriented, individual research project under the direction and supervision of a graduate faculty member that fulfills the non-thesis option in the Master of Gifted Education Program.

### **EDPS 7350 INTERNSHIP I**

The content of this course will include a 500-clock-hour field experience in schools or agencies working in the role of a school psychologist. This field experience will include psychological and educational assessment, development of intervention programs, and professional ethics. *Prerequisite: Consent of instructor.*

### **EDPS 7351 INTERNSHIP II**

The content of this course will include a 1,000-clock-hour advanced field experience in schools and agencies working in the role of a school psychologist. This field experience will include psychological and educational assessment, development of intervention programs, professional ethics, and consultation. *Prerequisite: Consent of instructor.*

### **EDPS 7352 PSYCHOTHERAPY FOR CHILDREN**

The content of this course will include cognitive, behavioral, and psychodynamic approaches to psychotherapy with children. A critical review of supportive data or lack of supportive data for various approaches to psychotherapy will be required. Practicum experience is required. This course may be repeated once for credit. *Prerequisites: PSY 6310 and PSY 6330 or consent of instructor.*

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## **Department of Engineering**

*Dr. Edwin W. LeMaster, Chair*

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### **Full-time Faculty**

Bose, Subhash C. (PhD, University of Wisconsin-Madison, 1987), Associate Professor, Computer Aided Manufacturing, Robotics and Stochastic Modeling and Control.

Hudson, Fred W. (PhD, University of Texas at Austin, 1979), Assistant Professor, Electrical Engineering, Data Acquisition.

Kiritsis, Nickolaos (MS, Ohio State University, 1989), Lecturer, Solid Mechanics, Measurement and Instrumentation.

LeMaster, Edwin W. (PhD, University of Texas at Austin, 1970), Professor, Remote Sensing, Solid State Electronics.

Mahdi, Hashim S. (PhD, University of Arizona, 1989), Assistant Professor, Computational Methods in Thermal and Fluid Systems.

Nambiar, Rajiv V. (PhD, University of Texas at Arlington, 1989), Assistant Professor, Computer Aided Design.

Walters, David L. (MS, University of Connecticut, 1985), Lecturer, Vibrations and Acoustics.

Wells, Wayne E. (PhD, Wayne State University, 1993), Assistant Professor, Manufacturing Engineering.

UT Pan American offers baccalaureate degrees in electrical, manufacturing, and mechanical engineering which are equivalent in scope to engineering programs at other institutions in Texas. These engineering curricula provide a rigorous foundation for engineering practice in industrial and governmental organizations as well as for graduate studies in engineering, business administration, law, and medicine. UT Pan American is located in an industrialized region with numerous manufacturing facilities which provide an unusual opportunity for students to participate in practical applications of engineering knowledge.

All students must complete a Pre-Engineering program (20 semester hours) which includes the following courses:

ENG 1301

CHEM 1401

MATH 1360  
 Foreign Language (6 hours)  
 Kinesiology (4 hours)

Students should recognize that each of these courses requires a specific level of high school preparation which is given under each course description.

All students must complete a **Basic Engineering** requirement (23 or 24 hours) composed of the following courses:

MATH 1370  
 CHEM 1402  
 PHYS 2301, 2101  
 CS 1380 OR 2325  
 ENG 1302  
 ENGR 1101, 1221  
 MECE 2440 (Manufacturing and Mechanical Engineering only)  
 ELEE 2330 (Electrical Engineering only)

A student must complete each of these courses with a grade of "C" (or higher) before enrollment in subsequent engineering courses will be allowed. Highly qualified students are expected to obtain advanced standing credit through acceptable test scores on ACT, CEEB (Advanced Placement Test) or CLEP. Common courses for which advanced standing credit can be attained include ENG 1301 and 1302, CHEM 1401 and 1402, HIST 2313 and foreign language. Additional information about advanced standing credit is given elsewhere in this catalog.

The following non-engineering courses (46 hours) are *common* to all engineering degree programs. A student must complete 27 hours of general education courses during his or her first 60 hours of college work.

MATH 2342, 3347, 3349  
 PHYS 2302, 2102  
 ECO 1301  
 ENG (6 hours literature)  
 ENG 3333  
 POLS 2313, 2314  
 HIST 2313, 2314  
 COMM 1303  
 PHIL 2330 or PHIL 2390  
 Social Science Elective (3 hours Anthropology, Psychology, or Sociology)

## Electrical Engineering Program

Electrical Engineering is an extremely broad field that encompasses power generation and transmission, computer systems, control systems, telecommunications, and electronic applications in such diverse areas as medicine, geophysics, and aerospace. Because of the widespread need for electrical engineers, there are more graduates in this field than in any other in engineering.

The total course requirements for electrical engineering consist of the following:

Pre-Engineering Program	20 hours
Electrical Engineering Program	131 hours
Basic Engineering	23 hours
Common Requirements	46 hours
Program Requirements	62 hours

The actual number of courses taken at UT Pan American will depend on a student's high school preparation and on the number of courses for which advanced standing credit is received. Program requirements for this degree are:

ENGR 2405	Engineering Mechanics
ENGR 4461, 4462	Senior Design Project I, II
ELEE 2420, 2321	Network Theory I, II
ELEE 2435	Microprocessor Programming
ELEE 3301, 3302	Electronic Circuits I, II
ELEE 3315	Electromagnetic Engineering
ELEE 3325, 3330	Electrical Engineering Laboratory I, II
ELEE 3328	Solid State Electronic Devices
ELEE 3340	Probability and Random Processes
ELEE 3351	Communication Theory



ELEE 4303	Digital Systems II	
ELEE 4308	Electromechanical Systems	
ELEE 4321	Automatic Control	
Technical Electives	(official list in department)	6 hours

No engineering course for which a student has attained at least a grade of "C" can be repeated for a letter grade.

## Manufacturing Engineering Program

Manufacturing Engineering is a new engineering specialty which has only recently been recognized. The curriculum includes elements of traditional mechanical, electrical, and industrial engineering curricula. Graduates with this specialization will find many opportunities for employment in all types of manufacturing facilities. UT Pan American offers the only baccalaureate degree in Manufacturing Engineering in Texas.

The total course requirements for manufacturing engineering consist of the following:

Pre-Engineering Program		20 hours
Manufacturing Engineering Program		132 hours
Basic Engineering	24 hours	
Common Requirements	46 hours	
Program Requirements	62 hours	

The actual number of courses taken at UT Pan American will depend on a student's high school preparation and on the number of courses for which advanced standing credit is received.

Program requirements for this degree are:

ENGR 2405	Engineering Mechanics	
ENGR 4461, 4462	Senior Design Project I, II	
ELEE 3305	Electrical Systems	
ELEE 3306	Electronic Systems	
ELEE 4321	Automatic Control	
MECE 2421	Mechanics of Solids	
MECE 3320	Measurement and Instrumentation	
MECE 3437	Thermal and Fluid Sciences	
MANE 2430	Manufacturing Processes	
MANE 3331	Process and Product Design	
MANE 3332	Engineering Statistics	
MANE 3401	Computer Aided Manufacturing	
MANE 4311	Quality Control	
MANE 4331	Manufacturing Planning and Control	
MANE 4401	Robotics	
Technical Electives	(official list in department)	(6 hours)

No engineering course for which a student has attained at least a grade of "C" can be repeated for a letter grade.

## Mechanical Engineering Program

Mechanical Engineers possess a broad technical background which enables them to work in virtually every industrial sector. They are concerned generally with the development of mechanical systems for energy conversion, power generation, environmental control, and transportation, as well as materials handling and processing. Mechanical engineers usually work closely with engineers having other specializations.

The total course requirements for mechanical engineering consist of the following:

Pre-Engineering Program		20 hours
Mechanical Engineering Program		132 hours
Basic Engineering	24 hours	
Common Requirements	46 hours	
Program Requirements	62 hours	

The actual number of courses taken at UT Pan American will depend on a student's high school preparation and on the number of courses for which advanced standing credit is received.

Program requirements for this degree are:

ENGR 2405	Engineering Mechanics	
ENGR 4461, 4462	Senior Design Project I, II	
ELEE 3305	Electrical Systems	
ELEE 3306	Electronic Systems	
ELEE 4321	Automatic Control	
MANE 2430	Manufacturing Processes	
MECE 2335, 3336	Thermodynamics I, II	
MECE 2421	Mechanics of Solids	
MECE 3315/3115	Fluid Mechanics (with lab)	
MECE 3320	Measurement and Instrumentation	
MECE 3350	Mechanical Engineering Analysis	
MECE 3360/3160	Heat Transfer (with lab)	
MECE 3380	Theory of Machines	
MECE 4140	Mechanical Engineering Laboratory	
MECE 4350	Mechanical Engineering Design	
Technical Electives	(official list in department)	6 hours

No engineering course for which a student has attained at least a grade of "C" can be repeated for a letter grade.

## Course Descriptions

### General Engineering

#### ENGR 1101 INTRODUCTION TO ENGINEERING

Introduction to engineering as a career, the requirements for registration as a professional engineer, and the fields of specialization within engineering. Approaches to engineering problem solving and the graphical presentation of data. *Prerequisites: MATH 1356 and CS 1300 or computer literacy skills.*

#### ENGR 1221 ENGINEERING GRAPHICS

This course provides an introduction to computer-aided drafting techniques. Topics include: methods of graphical communication, two and three dimensional drawing presentation, working drawing, data analysis, design synthesis, and production methods. There will be 1 hour lecture and 3 hours of laboratory per week. *Prerequisites: Credit for or enrollment in ENGR 1101, MATH 1356, and computer literacy (CS 1300 or CIS 1301).*

#### ENGR 2101 ENGINEERING PROJECTS LABORATORY I

Special construction projects, research activities, or supervised engineering studies. Course will require 3 laboratory hours per week and may be repeated once for credit. *Prerequisites: Sophomore standing and completion of ENGR 1101 and ENGR 2303.*

#### ENGR 2303 STATICS

(Texas Common Course Number is ENGR 2301.)

The study of forces, moments, friction, centers of mass, gravity and pressure using the equations of equilibrium in vector algebraic and calculus forms. *Prerequisites: PHYS 1401, MATH 1360 and credit for or enrollment in MATH 1370.*

#### ENGR 2304 DYNAMICS

Kinematics, dynamics, work-energy, and impulse-momentum methods applied to engineering problems involving particles and rigid bodies. *Prerequisites: ENGR 2303, credit for or enrollment in MATH 2342.*

#### ENGR 2405 ENGINEERING MECHANICS

Force vectors; free body diagrams; engineering applications of equilibrium; centroids; moment of inertia; kinematics and kinetics applied to engineering problems involving particles and rigid bodies. Course requires 3 hours lecture and 3 hours laboratory per week. *Prerequisites: PHY 1401 or equivalent, credit for or enrollment in MATH 2342.*

#### ENGR 3101 ENGINEERING PROJECTS LABORATORY II

Special construction projects, research activities, or supervised engineering studies. Course will require 3 laboratory hours per week and may be repeated once for credit. *Prerequisite: Junior standing or consent of the instructor.*

#### ENGR 3333 TOPICS IN ENGINEERING

The topic will be changed by demand. Course will be 3 lecture hours per week and may be repeated once for credit. Intermediate topics in the engineering disciplines will be presented. *Prerequisite: Junior level standing in engineering or consent of instructor.*

**ENGR 4461 SENIOR DESIGN PROJECT I**

Preparation for a capstone design experience drawing from all previous coursework. Discussion of engineering methods, problem definition, assumptions, methods of analysis, testing, reporting results. Short term projects will be assigned. Project to be undertaken in Senior Design Project II will be selected. FE exam. Course will require 1 hour lecture and 9 hours lab per week. *Prerequisite: Senior standing in Engineering.*

**ENGR 4462 SENIOR DESIGN PROJECT II**

Continuation of Senior Design Project I. Students will conduct a comprehensive engineering design of a project related to their major and report on the results. Synthesis using past coursework and outside reference material will be expected. Periodic progress reports and final oral and written reports will be required. Classroom discussions will consider professional responsibility, ethics, technology and society, entrepreneurship, FE exam. Course requires 1 hour lecture and 9 hours lab per week. *Prerequisite: ENGR 4461.*

## Electrical Engineering

**ELEE 2321 NETWORK THEORY II**

Transient response of networks by Fourier and Laplace transform methods, frequency-domain techniques, and time-domain techniques. *Prerequisites: ELEE 2420 and MATH 3347.*

**ELEE 2330 DIGITAL SYSTEMS ENGINEERING I**

Boolean algebra; analysis and synthesis of combinational and sequential switching network; applications to computer design. *Prerequisites: CS 1380 or CS 2325 with a grade of C or better, MATH 2342.*

**ELEE 2420 NETWORK THEORY I**

Basic network principles; steady-state response to signals; simple transient response; nodal and loop analysis. 3 hours of lecture and 2 hours of lab per week. *Prerequisites: Credit for or enrollment in MATH 3347, credit for or enrollment in PHYS 2302 and PHYS 2102, and CS 1380 or CS 2325.*

**ELEE 2435 MICROPROCESSOR PROGRAMMING**

Basic microprocessor programming and principles of assembly language programming; microprocessor organization and interfacing; applications, including data acquisition, control, and communication. Course requires 3 hours lecture and 3 hours lab per week. *Prerequisites: CS 1380, ELEE 2330.*

**ELEE 3301 ELECTRONIC CIRCUITS I**

Electronic devices in analog and digital circuits; device physics and modeling; analysis and design of power supply circuits and amplifiers; frequency response. *Prerequisite: Credit for or enrollment in ELEE 2321.*

**ELEE 3302 ELECTRONIC CIRCUITS II**

Feedback principles; Bode plots; analysis and design of operational Amplifier circuits, oscillators, and pulse and switching circuits. *Prerequisites: ELEE 2420, ELEE 3301, credit for or enrollment in ELEE 3325.*

**ELEE 3305 ELECTRICAL SYSTEMS**

Introduction to electric circuits and machines. Circuits elements, voltage, current and power, DC circuits, AC circuits in the steady state, elementary transients, poly-phase circuits. Types and characteristics of DC motors, transformers and AC motors. Course requires 2 hours lecture and 3 hours laboratory per week. *Prerequisites: MATH 1370, credit for or enrollment in PHYS 2302 and PHYS 2102.*

**ELEE 3306 ELECTRONIC SYSTEMS**

Electronic devices and circuits with applications in modern industrial control systems. Electronic circuits for signal processing, wave shaping and analog computing. Basic digital computer circuits. Transducers and sensors. Electronic instruments. Measurements. Basic feedback control systems. Course requires 2 hours lecture and 3 hours laboratory per week. *Prerequisites: MATH 1370, credit for or enrollment in PHYS 2302 and PHYS 2102.*

**ELEE 3315 ELECTROMAGNETIC ENGINEERING**

Introduction to electrostatics and magnetostatics; properties of conductive, dielectric, and magnetic materials; solutions of Maxwell's equations; transmission lines; uniform plane wave applications. *Prerequisites: ELEE 2420, MATH 3349.*

**ELEE 3325 ELECTRICAL ENGINEERING LABORATORY I**

Basic experimental methods; theory and practice of measurements; limitations of theoretical models; digital computer applications; reporting of technical results. Course requires 1 hour lecture and 6 hours lab per week. *Prerequisites: CS 1380, credit for or registration in ELEE 2321 and ELEE 3301.*

**ELEE 3328 SOLID STATE ELECTRONIC DEVICES**

Semiconductor materials and carrier transport; p-n junctions and Schottky barriers; bipolar and field effect transistors; integrated circuits. *Prerequisites: CHEM 1401, ELEE 3315.*

**ELEE 3330 ELECTRICAL ENGINEERING LABORATORY II**

Experimental solution of engineering problems, including design, optimization, evaluation, and simulation; advanced measurement techniques in electrical, electronic, and digital systems. Course requires 2 hours lecture and 6 hours lab per week. *Prerequisites: ELEE 3301, credit for or enrollment in ELEE 3302 and ELEE 3315.*

**ELEE 3340 PROBABILITY AND RANDOM PROCESSES**

Probability, random variables, distribution and density functions, limit theorems, random processes correlation functions, power spectra, response of random inputs. *Prerequisite: ELEE 2321.*

**ELEE 3351 COMMUNICATION THEORY**

Signals, systems, and analog modulation techniques; effects of noise in modulation systems, signal-to-noise ratio; digital data transmission; probability of error. *Prerequisites: ELEE 3340, MATH 3347.*

**ELEE 3401 ELECTRICAL ENGINEERING I**

Introduction to electric circuits and machines. Circuits elements, voltage, current and power, DC circuits, AC circuits in the steady state, elementary transients, poly-phase circuits. Types and characteristics of DC motors, transformers and AC motors. Course requires 3 hours lecture, 3 hours laboratory per week. *Prerequisites: MATH 1370, PHYS 2302, PHYS 2102.*

**ELEE 3402 ELECTRICAL ENGINEERING II**

Continuation of Electrical Engineering I. Electronic devices and circuits with applications in modern industrial control systems. Electronic circuits for signal processing, wave shaping and analog computing. Basic digital computer circuits. Transducers and sensors. Electronic instruments. Measurements. Basic feedback control systems. Course requires 3 hours lecture, 3 hours laboratory per week. *Prerequisite: ELEE 3401.*

**ELEE 4303 DIGITAL SYSTEMS II**

Hardware implementation of arithmetic and other algorithmic processes; organization, design, and simulation of digital systems; asynchronous sequential switching networks. *Prerequisite: ELEE 2330.*

**ELEE 4308 ELECTROMECHANICAL SYSTEMS**

Fundamentals of electromechanical interactions; electromechanical energy conversion; magnetic circuits, transformers, and energy conversion devices. *Prerequisites: ELEE 2321, ELEE 3315.*

**ELEE 4321 AUTOMATIC CONTROL**

Analysis of linear automatic control systems in time and frequency domains; stability analysis; state variable analysis; root locus; Nyquist diagrams and Bode plots; sensitivity; lead and lag compensation. *Prerequisites: ELEE 3402, MATH 3349.*

### Manufacturing Engineering

**MANE 2430 MANUFACTURING PROCESSES**

An introduction to manufacturing processes including metal cutting, measurement and metrology, deformation processes, welding and joining, elastomers and composites. Course requires 3 hours lecture and 3 hours laboratory per week. *Prerequisite: MECE 2440.*

**MANE 3331 PROCESS AND PRODUCT DESIGN**

An introduction to the engineering design process for products and manufacturing processes. Concepts of product life cycle, reliability, repairability, engineering specifications, productivity and product cost will be introduced. *Prerequisite: MANE 2430.*

**MANE 3332 ENGINEERING STATISTICS**

Fundamentals of probability, commonly encountered density functions, distribution functions, statistical tests and experimental designs as used in manufacturing and product design. Includes use of microcomputer-based statistical analysis software. *Prerequisites: MATH 2342, MANE 2430.*

**MANE 3401 COMPUTER AIDED MANUFACTURING**

An introduction to CAD/CAM based primarily on the microcomputer. Engineering Design theory and methodology, 2D and 3D graphics, dimensions and tolerances, fits, extensive use of a typical CAD language, introduction to finite elements analysis, survey of commercial CAD/CAM systems. Course requires 3 hours lecture and 3 hours lab per week. *Prerequisites: ENGR 1221, CS 1380 or CS 2325, MANE 2430.*

### **MANE 4311 QUALITY CONTROL**

Study of statistical methods applied to the assurance of product quality. Sampling techniques and control charts will be applied. Concepts of statistical process control will be emphasized throughout. Correlation, regression analysis and design of experiments will be introduced. *Prerequisites: Elementary Statistics (ELEE 3340 or similar), MANE 2431, MANE 3401.*

### **MANE 4331 MANUFACTURING PLANNING AND CONTROL**

A capstone course covering the principles of manufacturing process and plant design and control emphasizing the interrelationship between product design, process design and the firm's operating plan. Computer models will be used extensively. *Prerequisites: Senior standing in engineering and consent of instructor.*

### **MANE 4401 ROBOTICS**

Study of reprogrammable, computer-controlled devices for automated manufacturing processes, assembly and materials handling. Robot classification, dynamics, control and programming are covered. Sensors, work cells and safety consideration are introduced. Course requires 3 hours lecture and 3 hours laboratory per week. *Prerequisites: MANE 2431, MANE 3401.*

### **MANE 4450 COMPUTER INTEGRATED MANUFACTURING**

Study of CAD/CAM/CIM in a modern manufacturing plant. The process of justifying, implementing and managing a CIM program is developed. Concepts of data networking and structured analysis tools are introduced. Course requires 3 hours lecture and 3 hours laboratory per week. *Prerequisites: MANE 2431, MANE 3401, credit for or enrollment in MANE 4401.*

## **Mechanical Engineering**

### **MECE 2335 THERMODYNAMICS I**

Classical thermodynamics with primary emphasis on application of the first and second laws of thermal systems. Introduction to physical and chemical equilibria. *Prerequisites: PHYS 2302, MATH 3347, MATH 3349.*

### **MECE 2421 MECHANICS OF SOLIDS**

Internal forces and deformation in solids; stress and strain in elastic and plastic solids; applications to beams, columns, a variety of engineering problems, and introduction to computer modeling. Course requires 3 hours lecture and 3 hours laboratory per week. *Prerequisites: ENGR 2405 or 2303 and PHYS 2301.*

### **MECE 2440 ENGINEERING MATERIALS**

An introduction to the atomic crystallographic and microstructural characteristics of solids and the relationship of these characteristics to the engineering properties and behavior of metallic, ceramic, and polymeric materials. Topics in corrosion. Course requires 3 hours lecture and 3 hours laboratory per week. *Prerequisite: CHEM 1402.*

### **MECE 3115 FLUID MECHANICS LABORATORY**

Introduction to basic fluid mechanics instrumentation; computerized data acquisition and analysis. Experimental verification and reinforcement of analytical concepts introduced in MECE 3315. 3 hours laboratory per week. *Prerequisite: Credit or registration for MECE 3315.*

### **MECE 3160 HEAT TRANSFER LABORATORY**

Measurements in basic heat transfer design and heat exchangers; computerized data acquisition and analysis, experimental verification on the theoretical and semiempirical results developed in MECE 3360. 3 hours laboratory per week. *Prerequisites: MECE 3336, and credit or registration for MECE 3360.*

### **MECE 3315 FLUID MECHANICS**

Laws and theory relative to incompressible fluids, continuity, momentum, and energy relations in flow situations; internal and external flow in laminar and turbulent regimes; design of piping systems and aircraft parameters. *Prerequisites: MECE 2335, MATH 3349*

### **MECE 3320 MEASUREMENTS AND INSTRUMENTATION**

Fundamentals of measurement systems; standards; treatment of data; statistics; uncertainty analysis, data acquisition; transducers; strain; force, acceleration; pressure; temperature; and fluid flow. 2 hours lecture, 3 hours laboratory per week. *Prerequisites: PHYS 2302, ENGR 2405 or ENGR 2303.*

### **MECE 3336 THERMODYNAMICS II**

Gas and two-phase power and refrigeration cycles. Gas mixtures, chemical reactions, chemical equilibrium. The basic laws and concepts of thermodynamics are viewed as their use is encountered in the course. *Prerequisite: MECE 2335.*

**MECE 3350 MECHANICAL ENGINEERING ANALYSIS**

Mathematical modeling and simulation of engineering systems. Introduction to the application of Fourier series and partial differential equations to a variety of engineering problems. *Prerequisites: MATH 3347, MATH 3349, MECE 2335.*

**MECE 3360 HEAT TRANSFER**

Steady and unsteady one- and two-dimensional heat conduction. Forced and free convection, radiation, heat exchangers. *Prerequisite: MECE 2335.*

**MECE 3380 THEORY OF MACHINES**

Kinematic and dynamic analysis of mechanisms and machines; study of machine elements such as linkages, cams, gears, gear trains, and differentials. *Prerequisites: PHYS 2301, ENGR 2304.*

**MECE 3385 MECHANICAL VIBRATIONS**

Undamped and damped, free and forced vibrations of single degree of freedom systems with design applications to base excitation, unbalance, rotating shafts, isolation and absorption; multi-degree of freedom systems, continuous systems; transient response; numerical techniques used to analyze alternate designs and propose optimum solutions. *Prerequisites: PHYS 2302, CS 2325 or CS 1380.*

**MECE 3437 THERMAL AND FLUID SCIENCES**

First and second laws of thermodynamics, fluid properties, statics, conservation laws, conduction, convection, and radiation heat transfer. Course requires 3 hours lecture and 3 hours laboratory per week. *Prerequisites: MATH 3349, PHYS 2302.*

**MECE 3440 ENGINEERING MATERIALS**

An introduction to the atomic, crystallographic and microstructural characteristics of solids and the relationship of these characteristics to the engineering properties and behavior of metallic, ceramic and polymeric materials. Topics in corrosion. *Prerequisites: CHEM 1402, credit for or enrollment in MATH 3347, MECE 2335, ENGR 2321.*

**MECE 4140 MECHANICAL ENGINEERING LABORATORY**

A laboratory course to emphasize laboratory techniques, computer integration, mechanical systems integration, data acquisition and analysis, and general experimental techniques related to rotating machinery and vibration. Course requires 3 hours laboratory per week. *Prerequisite: MECE 3380.*

**MECE 4350 MECHANICAL ENGINEERING DESIGN**

Stress and deflection analysis, failure theories, design of machine elements for static and fatigue strength, design of welded and bonded connections, and computer modeling applications. *Prerequisites: MECE 2440, 2421, and MECE 3380.*

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## Department of English

*Dr. Lee T. Hamilton, Chair*

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**Full-time Faculty**

Anderson-Mejias, Pamela (PhD, Indiana University, 1980), Associate Professor, Applied Linguistics, Second Language Acquisition.

Bloom, Leonard (MA, St. Mary's University, San Antonio, 1968), Assistant Professor, Modern American and Modern British Literature.

Cararas, Sandra A. (MA, Northeast Louisiana University, 1968), Assistant Professor, Technical Writing, Shakespeare, Renaissance and 17th Century English Literature.

Daniel, Clay L. (PhD, Texas A&M University, 1988), Assistant Professor, 17th Century British Literature, Milton.

Davidson, Judy (MA, Hardin-Simmons University, 1974), Lecturer, American Literature, Milton.

Davis, Will (PhD, Rice University, 1982), Associate Professor, Composition, Critical Theory, Modern Poetry.

De La Fuente, Patricia (PhD, University of Texas at Austin, 1976), Professor, Comparative Literature, Renaissance English Literature.

Dowell, Bob (PhD, University of Denver, 1962), Professor, American Literature, Comparative Literature.

Evans, James L. (PhD, University of Texas at Austin, 1967), Professor, American Literature after Civil War, Frontier Literature, Folklore, Bibliography.

- Frankenberger, Earl (MA, Texas Christian University, 1967), Assistant Professor, 18th Century Satire, American Naturalist and Environmental Literature, Composition and Developmental Skills.
- Fritz, Donald E. (PhD, University of Missouri, Columbia, 1975), Associate Professor, Modern British and American Literature, Criticism.
- Grantz, Carl L. (PhD, University of Texas at Austin, 1968), Professor, English Literature, Rhetoric, Composition.
- Hamilton, Lee (PhD, Louisiana State University, 1982), Associate Professor, 19th Century British Literature, Bibliography.
- Haule, James M. (PhD, Wayne State University, 1974), Professor, Modern and Contemporary British Literature.
- Heckler, Edward (PhD, Michigan State University, 1975), Associate Professor, Linguistics, ESL.
- LaPrade, Douglas E. (PhD, University of Illinois, 1988), Assistant Professor, 20th Century American Literature.
- Lyford, Roland (PhD, University of California, Davis, 1968), Professor, 20th Century American Literature, Structural Linguistics.
- McCurdy, Pamela P. (PhD, University of Texas at Dallas, 1978), Assistant Professor, Linguistics, ESL.
- Mendez-Egle, Beatrice (PhD, Texas A&M University, 1981), Associate Professor, Rhetoric and Composition, 19th Century British Literature, Linguistics.
- Mery, Adelle (PhD, Texas A&M University, 1990), Lecturer, American Literature, World Literature.
- Mitchell, Paul (PhD, University of Southern Mississippi, 1971), Associate Professor, 19th Century British Literature, Rhetoric, Composition, Linguistics.
- Newman, Donald (PhD, University of Southern California, 1992), Assistant Professor, 18th Century British Literature, Johnson and Boswell Studies, Biography.
- Pipkin, Cathi (MA, Pan American University, 1986), Lecturer, English Literature, American Literature.
- Reed, Michael D. (PhD, University of Oregon, 1974), Professor, Colonial and 19th Century American Literature, Psychoanalytic Criticism; Logic.
- Reimers, Valerie (PhD, State University of New York-Stonybrook, 1990), Assistant Professor, Composition and Rhetoric, British Literature, Biography and Autobiography.
- Saeta, Elsa (MA, Pan American University, 1986), Lecturer, Composition, American Literature, World Literature.
- Salinas, Oscar (MA, Pan American University, 1976), Lecturer, American Literature, World Literature.
- Schmidt, Dorothy (PhD, Bowling Green State University, 1979), Professor, American Studies, Women's Studies, Creative Writing.
- Thacker, Rebekah (PhD, Texas A&M University, 1993), Assistant Professor, English Literature, World Literature.
- von Ende, Frederick (PhD, Texas Christian University, 1972), Professor, Medieval English Literature, Arthurian Legend & Literature, Milton, 17th Century English Literature.
- Wade, Seth (MA, Louisiana State University, 1954), Assistant Professor, Creative Writing and Translation; 20th Century English and American Poetry; American Literature.
- West, Thomas (PhD, University of Texas at Austin, 1982), Lecturer, 18th Century British Literature.
- White, Peter (MA, San Diego State University, 1979), Lecturer) American Literature, Canadian Literature.

## Department of English Undergraduate Programs

The Department of English offers undergraduate major and minor programs in English, with specializations in literature, language, and English as a Second Language. Teacher certification plans in English are available at both secondary and elementary levels. In addition, the department also offers graduate major programs leading to the MA in English, the MA in English as a Second Language, and the MA in Interdisciplinary Studies with a concentration in English. Major and minor programs in English offer students an opportunity to discover more about the world they live in, to learn to appreciate the artistic works of fellow human beings, and to develop literary and language aptitudes of their own. To students who view education primarily as career training, English programs provide excellent preparation for any profession requiring a high degree of skill and comprehension in oral and written communication.

### Major in English:

36 semester hours of English, of which 24 must be advanced. English 2300 and English 2308 (when special topic is "Introduction to Classical Literature") or 2387 and 2388 are recommended sophomore literature courses for English majors. Required courses: COMM 1313, ENG 3319, ENG 3312 or 3313, and ENG 3331 or 3332. In addition, all students majoring in English are required to take the ExCET before graduation.

The Department of English offers courses in literature, language (linguistics), English as a Second Language, and writing. Students may consider the offerings below in order to develop an individual degree plan in consultation with an adviser from the English department.

### Offerings in Literature:

ENG 2300, 2303, 2305, 2307, 2308 (when special topic is literary), 2313, 2387, 2388, 3301, 3304, 3305, 3306, 3307, 3309,

3310, 3312, 3313, 3317, 3320 (when topic is literary), 3322, 3324, 4301, 4306, 4309, 4310, 4312, 4316, 4318.

**Offerings in Language (Linguistics):**

ENG 3319, 3320 (when topic is linguistic) 3321, 3330, 4302, 4308, 4314, 4326, 4330, 4331.

**Offerings in English as a Second Language:**

ENG 3319\*, 3321\*, 4326, 4328\*, 4329, 4330, 4331.

\*Denotes courses which (in addition to EDCI 3324) are required by the State of Texas for ESL endorsement. Students getting this endorsement must have a 2.25 GPA in the required four courses.

**Offerings in Writing:**

ENG 1301, 1302, 1320, 1387, 1388, 1406, 2308 (when special topic is writing), 2309, 3320 (when special topic is writing), 4322, 4325.

**Minor in English:**

18 semester hours of English, of which 6 must be advanced. English 2300 and 2308 (when special topic is "Introduction to Classical Literature" or 2387 and 2388) are recommended sophomore literature classes for English minors.

**Teacher Certification in English (Secondary):**

24 semester hours of English, of which 12 must be advanced and must include English 3319, 4325, 3312 or 3313, and 3331 or 3332. Students wishing certification with a concentration in literature, language, English as a Second Language, or writing may take additional advanced hours and should consult the offerings listed above for English majors. Students seeking certification or an ESL endorsement must have at least a 2.25 GPA in the content area courses.

**The Department of English Graduate Program**

The Department of English offers courses leading to a Master of Arts in English, a Master of Arts in English as a Second Language, and a Master of Arts in Interdisciplinary Studies with a concentration in English.

A person with a master's in another discipline who wishes to acquire an MA in English or an MA in ESL must present at least 36 semester hours of graduate work applicable to the second master's degree and must meet all specific requirements for it. Within this 36 hours, a student may include a maximum of 6 hours that were applied to the first master's (whether it was received from UT Pan American or elsewhere). The 36 semester hours (including any work counted on a previous master's) must include at least 27 hours of English, must include 24 hours at this institution, and must be within the seven-year period.

Students may enroll in a graduate course in ESL (provided they have the prerequisites for that particular course) without any undergraduate work in English. For all other graduate courses in English, a student must have at least 6 semester hours of advanced undergraduate English.

For all graduate degrees (MA in English, MA in ESL, and MAIS with concentration in English), students must score at least 500 on the Verbal part of the GRE. Students should meet this requirement before completing more than 12 hours of graduate English. (Foreign students whose native language is not English can meet this requirement for an MA in ESL by scoring 550 or above on the TOEFL.)

In addition, students seeking any graduate degree in English must have a GPA of at least 3.0 in the graduate hours taken in the English Department of UT Pan American.

**Requirements by the Department of English for a Master of Arts Degree with a Major in English**

In addition to the general requirements stated elsewhere in this bulletin, the following specific requirements must be met:

1. Applicants for admission will be required to have completed 24 semester hours of undergraduate work in English, 12 hours of which must be advanced.
2. The choice of courses in English (and other fields, if any) will be determined through consultation between the student and the departmental graduate adviser.
3. Each student must pass two three-hour exit examinations. One must be over the departmental list of literary masterpieces; the subject area of the other exam will be determined in consultation with the departmental graduate adviser.

**Master of Arts Degree**

*Major*  
English

*Thesis*

Major  
30 semester hours including a thesis; at least 24 must be in English.



**Requirements:**

ENG 6300 Bibliography and Research Methods

ENG 7300 Thesis

ENG 7301 Thesis

TOTAL

30 hours

**Master of Arts Degree**

**Major**

English

36 semester hours; at least 27 must be in English.

*Non-Thesis*

**Requirements:**

ENG 6300 Bibliography and Research Methods

TOTAL

36 hours

**Requirements by the Department of English for a Master of Arts Degree with a Major in English as a Second Language**

In addition to the general requirements stated elsewhere in this bulletin, the following requirement must be met: Each student must pass two three-hour written exit examinations. One is in Theoretical ESL, the other in Applied ESL.

Some courses are offered on a rotating basis. Students should consult the graduate adviser early in their MA programs.

**Master of Arts Degree**

**Major**

English as a Second Language

*Thesis*

36 semester hours including a thesis, with the option of taking a total of up to 6 hours in one or more other fields.

**Requirements:**

(30 hours)

ENG 6350 Introduction to Descriptive Linguistics for Teachers

ENG 6321 Studies in Language and Culture

ENG 6302 Modern English Syntax

ENG 6328 Introduction to English as a Second Language

ENG 6329 Problems in English as a Second Language

ENG 6351 Problems in Linguistics (when topic is research)

ENG 6352 Practicum in English as a Second Language

ENG 6353 ESL Testing

ENG 7300 Thesis

ENG 7301 Thesis

6 additional semester hours.

Students are advised to take them from the following courses:

(6 hours):

ENG 6317 English Phonological Systems

ENG 6325 Studies in Composition Techniques

ENG 6344 Studies in Grammar, Dialects, and Language Performance

ENG 6345 Problems in Grammar, Dialects, and Language Performance

ED 6324 Second Language Teaching: Theory and Methodology

SOC 5360 Sociology of Education

SOC 6361 Race and Ethnic Relations

TOTAL

36 hours

**Master of Arts Degree**

**Major**

English as a Second Language

*Non-Thesis*

**Major**

36 semester hours with the option of taking a total of up to 9 hours in one or more other fields.

**Requirements:**

(21 hours)

ENG 6350 Introduction to Descriptive Linguistics for Teachers  
 ENG 6321 Studies in Language and Culture  
 ENG 6302 Modern English Syntax  
 ENG 6328 Introduction to English as a Second Language  
 ENG 6329 Problems in English as a Second Language  
 ENG 6352 Practicum in English as a Second Language  
 ENG 6353 ESL Testing

*Electives:*

(6 hours)

At least 6 semester hours from the following courses:

ENG 6317 English Phonological Systems  
 ENG 6325 Studies in Composition Techniques  
 ENG 6344 Studies in Grammar, Dialects, and Language Performance  
 ENG 6345 Problems in Grammar, Dialects, and Language Performance  
 ENG 6351 Problems in Linguistics

9 additional semester hours, chosen in consultation with the graduate adviser.

**TOTAL** 36 hours

**Requirements by the Department of English for a Master of Arts Degree in Interdisciplinary Studies with Concentration in English**

In addition to the general requirements stated elsewhere in this bulletin, the following specific requirements must be met:

1. Applicants who wish to concentrate in English must have completed at least 6 advanced undergraduate hours in English.
2. The choice of courses in the concentration and other fields will be determined through consultation between the student and the departmental graduate adviser.
3. To receive an MA in Interdisciplinary Studies with a Concentration in English, a student must pass one three-hour written exit examination. Subject area will be determined in consultation with the departmental graduate adviser.

**Master of Arts Degree in Interdisciplinary Studies**

*Concentration*  
English

*Thesis*

18 semester hours in English (including thesis) and 18 semester hours in other fields.

*Requirements:*

ENG 6300 Bibliography and Research Methods  
 ENG 7300 Thesis  
 ENG 7301 Thesis  
**TOTAL**

36 hours

**Master of Arts Degree in Interdisciplinary Studies**

*Concentration*  
English

*Non-Thesis*

18 semester hours in English without thesis and 18 semester hours in other fields.

*Requirements:*

ENG 6300 Bibliography and Research Methods  
**TOTAL**

36 hours

**Course Descriptions**

**English**

**ENG 1301 COMPOSITION**

(Texas Common Course Number is ENGL 1301.)

This course affords the opportunity for students to develop their ability to communicate effectively and responsibly through written discourse. Emphasis upon mechanical proficiency and organization skills in writing expository essays, analysis of style, tone, and point of view of expository prose. (Credit for this course may be obtained by qualified students through advanced placement or advanced standing examinations.) *Prerequisite: Satisfactory score on English portion of ACT test, TASP examination, or English 1320.*

**ENG 1302 RHETORIC**

(Texas Common Course Number is ENGL 1302.)

This course offers the opportunity to learn to recognize and to employ the principles of rhetoric in written discourse. Analysis of rhetoric and logic, writing of essays, and study of research and documentation techniques. Requires the completion of a research project. (Credit for this course may be obtained by qualified students through advanced placement or advanced standing examinations.) *Prerequisite: A grade of "C" or better in ENG 1301, 1387 or 1406.*

**ENG 1310 READING-VOCABULARY**

This course offers students the opportunity to develop their ability to read college-level materials. Emphasis on vocabulary and word recognition skills, comprehension skills, study skills, and efficiency in content area reading. Required of students with reading skills below college level. Course does not satisfy general education requirements.

**ENG 1320 BASIC WRITING**

Intensive study and practice in basic grammar and fundamentals of composition. Emphasis on punctuation, sentence combining, sentence construction, correct language use, and other basic writing skills. Does not count toward hours for graduation or in the computation of hours attempted or earned. A course grade will be recorded as Pass (P) or No Pass (NP). (There will be special sections for foreign-born students. A minimum score of 500 on TOEFL or minimum score of 60 on MTEL is required for entrance.)

**ENG 1387 RHETORIC AND COMPOSITION (HONORS PLAN)**

Study and practice of writing effectively, emphasis on expository writing and the research paper. *Prerequisite: Admission to honors studies or by invitation.*

**ENG 1388 RHETORIC AND LITERATURE (HONORS PLAN)**

Study and practice of writing effectively/interpreting literature. Emphasis on critical analysis of essays, fiction, and poetry. *Prerequisite: ENGLISH 1387 or by invitation.*

**ENG 1406 ENGLISH FOR FOREIGN STUDENTS**

This course offers students the opportunity to develop their ability to communicate effectively and responsibly through written discourse. Emphasis upon mechanical proficiency and organization skills in writing expository essays, analysis of style, tone, and point of view of expository prose. (For international students who lack proficiency in English. Students cannot receive credit for both 1301 and 1406.)

**ENG 2300 INTRODUCTION TO LITERATURE**

An introduction to literary genres, with special emphasis on the short story, novel or novella, drama, and poetry. Requires careful reading and the writing of critical essays about individual works. *Prerequisite: Minimum grade of "C" in 6 semester hours of required freshman English.*

**ENG 2303 READINGS IN AMERICAN LITERATURE**

(Texas Common Course Number is ENGL 2326.)

A study of several masterpieces of American literature, with emphasis on careful reading and on writing critical essays about individual works. *Prerequisite: Minimum grade of "C" in 6 semester hours of required freshman English.*

**ENG 2305 READINGS IN ENGLISH LITERATURE**

(Texas Common Course Number is ENGL 2322.)

A study of several masterpieces of English literature, with emphasis on careful reading and on writing critical essays about individual works. *Prerequisite: Minimum grade of "C" in 6 semester hours of required freshman English.*

**ENG 2307 READINGS IN WORLD LITERATURE**

(Texas Common Course Number is ENGL 2331.)

A study of several masterpieces of world literature in translation, with emphasis on careful reading and on writing critical essays about individual works. *Prerequisite: Minimum grade of "C" in 6 semester hours of required freshman English.*

**ENG 2308 READINGS IN SPECIAL TOPICS**

A study of the literature associated with a special group, area, movement, or technique. The topic to vary with each section. (Special topics to be announced in the schedule of classes. May be taken only once to satisfy general education requirements but may be repeated for elective credit when the topic varies.) *Prerequisite: Minimum grade of "C" in 6 semester hours of required freshman English.*

**ENG 2309 TECHNICAL REPORT WRITING**

(Texas Common Course Number is ENGL 2311.)

A course for students desiring training in writing special types of reports often used in engineering, science, and business. *Prerequisite: Minimum grade of "C" in 6 semester hours of required freshman English.*

**ENG 2313 READINGS IN DRAMATIC LITERATURE**

Critical review and analysis of selected classic plays from Greek antiquity to the present time. Designed to clarify the nature and major achievements of western dramatic art. May be counted as English or Communication. *Prerequisite (For English credit): Minimum grade of "C" in 6 semester hours of required freshman English.*

**ENG 2387 READINGS IN WORLD LITERATURE (HONORS PLAN)**

A study of selected works from the literature of Greece, Rome, and Medieval Europe. *Prerequisite: Admission to honors studies or by invitation.*

**ENG 2388 READINGS IN WORLD LITERATURE (HONORS PLAN)**

A study of selected works of western literature from Renaissance through modern writers. *Prerequisite: Admission to honors studies or by invitation.*

**ENG 3301 MEDIEVAL LITERATURE**

A study of various types of medieval literature, including the epic, the romance, and the allegory, with special attention to Middle English writers. *Prerequisite: 12 semester hours of English.*

**ENG 3304 THE EIGHTEENTH CENTURY**

A study of the major works of English writers of the Neo-classical period, including Dryden, Congreve, Pope, Swift, Sterne, and Samuel Johnson. *Prerequisite: 12 semester hours of English.*

**ENG 3305 THE ROMANTIC PERIOD**

A study of the development of romanticism in France, Germany and England, with the main emphasis on English writers. *Prerequisite: 12 semester hours of English.*

**ENG 3306 THE ENGLISH NOVEL TO 1850**

A study of the origins and development of the English novel with emphasis on the major novelists. *Prerequisite: 12 semester hours of English.*

**ENG 3307 THE ENGLISH NOVEL FROM 1850 TO PRESENT**

A study of the continuing development and techniques of the English novel with emphasis on the major novelists. *Prerequisite: 12 semester hours of English.*

**ENG 3309 DEVELOPMENT OF THE AMERICAN NOVEL**

A study of the American novel from its beginnings to the present, with emphasis on the major novelists. *Prerequisite: 12 semester hours of English.*

**ENG 3310 TWENTIETH CENTURY ENGLISH AND AMERICAN POETRY**

A study of the trends and movements in contemporary poetry, with emphasis on the works of the major writers. *Prerequisite: 12 semester hours of English.*

**ENG 3311 CONTEMPORARY DRAMA**

A study of trends and movements in 20th century American, British, and European drama, with emphasis on works of major playwrights. *Prerequisite: 12 semester hours of English. (May be counted as COMM 3311.)*

**ENG 3312 SURVEY OF AMERICAN LITERATURE**

A chronological study of the principal authors, works, and trends in American literature from the Colonial period to the Civil War. *Prerequisite: 12 semester hours of English.*

**ENG 3313 SURVEY OF AMERICAN LITERATURE**

A chronological study of the principal authors, works, and trends in American literature from the Civil War to the Twentieth Century. *Prerequisite: 12 semester hours of English.*

**ENG 3317 THE SHORT STORY AND THE NOVELLA**

A study of the development and technique of the short story and novella with emphasis on literary appreciation. *Prerequisite: 12 semester hours of English.*

**ENG 3319 INTRODUCTION TO DESCRIPTIVE LINGUISTICS**

An introduction to the methods of linguistic science with emphasis on problem-solving techniques and the application to specific problems. *Prerequisite: 12 semester hours of English.*

**ENG 3320 ADVANCED TOPICS IN ENGLISH**

A course adapted to the study of advanced special topics in English. Course may be offered for open enrollment when topic is selected by the instructor, or course may be conducted as independent/conference study when topic is selected by student and approved by the instructor. May be repeated for credit when topics vary. *Prerequisite: 12 semester hours of English.*

**ENG 3321 LANGUAGE AND CULTURE**

Systematic exploration of social aspects of language and language use, including language attitudes, sociolinguistic dynamics of language contact situations, language learning, and the social and linguistic nature of dialects, language variation, and language change. *Prerequisite: 12 semester hours of English.*

**ENG 3322 POETRY**

An in-depth study of the art and nature of poetry, with emphasis on sounds, forms, language, and modes of poetry. *Prerequisite: 12 semester hours of English.*

**ENG 3323 WORLD DRAMA**

A study of trends and movements in dramatic literature from Ancient Greece through World War I. Emphasis on the works of major playwrights. *Prerequisite: 12 semester hours of English. (May be counted as COMM 3310.)*

**ENG 3324 THE VICTORIAN PERIOD**

A study of the literature of Victorian England, from 1832 to the end of the Nineteenth Century.

**ENG 3330 ENGLISH GRAMMAR**

A study of grammatical concepts with concentration on basic sentence structure, principles of punctuation, and functional grammar. Course designed for, but not limited to, prospective teachers of students with limited English speaking/writing ability and/or ESL students. *Prerequisite: ENG 3319.*

**ENG 3331 SURVEY OF ENGLISH LITERATURE**

A chronological study of the principal authors, works, and trends in English literature from the Anglo-Saxon period to the beginning of the Romantic movement. *Prerequisite: 12 semester hours of English.*

**ENG 3332 SURVEY OF ENGLISH LITERATURE**

A chronological study of the principal authors, works, and trends in English literature from pre-Romantic poetry to the Twentieth Century. *Prerequisite: 12 semester hours of English.*

**ENG 3333 TECHNICAL REPORT WRITING**

Training in writing and presentation of special types of reports often used in engineering, science, and business. *Prerequisite: 12 semester hours of English.*

**ENG 4301 SHAKESPEARE**

A study of representative comedies, histories, and tragedies. *Prerequisite: 12 semester hours of English.*

**ENG 4302 MODERN ENGLISH SYNTAX**

Studies in modern English syntax with attention given to investigative methods and findings of contemporary linguistic analysis. *Prerequisite: ENG 3319.*

**ENG 4306 THE FRONTIER IN AMERICAN LITERATURE**

A study of the influence of the American frontier on American literature, with special emphasis on the literature and folklore of the Southwest and of the cattle kingdom. *Prerequisite: 12 semester hours of English.*

**ENG 4308 HISTORY OF THE ENGLISH LANGUAGE**

A history of the English language from the Anglo-Saxon period to the present. *Prerequisite: 12 semester hours of English.*

**ENG 4309 CHAUCER**

A study of selected works of the Fourteenth Century English poet. *Prerequisite: 12 semester hours of English.*

**ENG 4310 AMERICAN LITERATURE OF THE SOUTH**

A study of the works of representative writers of the South. *Prerequisite: 12 semester hours of English.*

**ENG 4312 MILTON**

A study of the major poems and selected prose and minor poetry. *Prerequisite: 12 semester hours of English.*

**ENG 4314 CONTRASTIVE GRAMMAR**

A comparison of English and Spanish grammatical systems with emphasis on substantive and descriptive problems arising from the differences in the systems. Course open only to students with proficiency in both English and Spanish.

*Prerequisite: ENG 4302.*

**ENG 4316 MEXICAN-AMERICAN LITERATURE**

A study of the literature by and about Mexican Americans, with emphasis on the literary techniques and the cultural reflection in this literature. *Prerequisite: 12 semester hours of English.*

**ENG 4317 ENGLISH PHONOLOGICAL SYSTEMS**

A study of the sound structure and system of modern English with attention given to the methods and findings of contemporary linguistics. *Prerequisite: ENG 3319.*

**ENG 4318 APPROACHES TO LITERATURE**

A study of the characteristics of poetry, drama, and fiction, and of the major approaches to these genres with some attention to works encountered in secondary schools. *Prerequisite: 12 semester hours of English.*

**ENG 4321 FUNDAMENTALS OF LANGUAGE DEVELOPMENT**

A study of how children develop language skills from age five through adolescence. Covers all systems of language from basic sounds through competence in oral and written communication.

**ENG 4322 CREATIVE WRITING I**

A study of literary forms, techniques, and values, with practice in the writing of poetry and prose. *Prerequisite: 12 semester hours of English or permission of instructor.*

**ENG 4325 COMPOSITION TECHNIQUES**

A study of advanced composition techniques, including theories and methods of teaching composition skills. *Prerequisite: 12 semester hours of English.*

**ENG 4326 LANGUAGE ACQUISITION**

Spring of even years

An analysis of the process of language learning, the normal development of speech and language, and the relationship of language to cognitive and social development.

**ENG 4328 INTRODUCTION TO ENGLISH AS A SECOND LANGUAGE**

A study of the process of learning English as a second language. Special attention given to theories, variables, and second language acquisition.

**ENG 4329 ESL THEORY AND PRACTICE**

Review and assessment of various current theoretical perspectives in applied linguistics and their relevance to ESL. May require tutorial participation in the departmental ESL laboratory. *Prerequisite: ENG 4328, or consent of instructor.*

**ENG 4330 THEORIES OF GRAMMAR, DIALECTS AND LANGUAGE PERFORMANCE**

A survey of dialects, language performance, and contrastive analyses of grammar as they are applicable to the bilingual and/or second language learner. Designed for, but not limited to, prospective teachers of students with limited English proficiency and/or teachers of ESL students. *Prerequisites: ENG 3319, 3330, SPAN 3330, or consent of instructor.*

**ENG 4331 PROBLEMS IN GRAMMAR, DIALECTS AND LANGUAGE PERFORMANCE**

A study of the second language learner's transition from regional Spanish to standard English. Emphasis on the particular characteristics of the English and Spanish dialects of the region and the manner in which they interrelate. The course will treat theory already learned as well as that presented in the course in the light of practical methodological tools. *Prerequisites: SPAN 2302, 2308. Prerequisites for bilingual certification students: ENG 3319, 3330, SPAN 3330, or consent of instructor.*

**ENG 6300 BIBLIOGRAPHY AND RESEARCH METHODS**

Spring

A survey of the major sources of literary history and criticism and an introduction to methods and aids in literary research methods. Required of all graduate English majors.

**ENG 6302 MODERN ENGLISH SYNTAX**

Studies in Modern English syntax with attention given to investigative methods and findings of contemporary linguistic analysis. Special emphasis on the structure of English as a language. *Prerequisite: ENG 6350, or consent of Instructor.*

**ENG 6315 WORKSHOP IN CREATIVE WRITING**

Work in all genres for advanced students with a serious interest in publishing.

**ENG 6316 STUDIES IN MEXICAN-AMERICAN LITERATURE**

Advanced study of the literature by and about Mexican Americans, with emphasis on the literary techniques and the cultural reflections in this literature.

**ENG 6317 ENGLISH PHONOLOGICAL SYSTEMS**

A study of sound structure and system of modern English with attention given to methods and findings of contemporary linguistics. Special emphasis on the articulatory means and the variables influencing the sound system as it is used.

*Prerequisite: ENG 6350, or consent of instructor.*

**ENG 6318 LITERATURE IN THE SECONDARY SCHOOL**

Resources available for the teacher of English with consideration of analytical techniques.

**ENG 6321 STUDIES IN LANGUAGE AND CULTURE**

Advanced study of social aspects of language and language use, including language attitudes, sociolinguistic dynamics of language contact situations, language learning, and the social and linguistic nature of dialects, language variation, and language change. Requires a research project.

**ENG 6325 STUDIES IN COMPOSITION TECHNIQUES**

Advanced study of composition theory and techniques and methods of teaching composition, with special emphasis on teaching English composition to college freshman. Required of all English teaching assistants.

**ENG 6328 INTRODUCTION TO ENGLISH AS A SECOND LANGUAGE**

A study of ESL theory and techniques and their application to specific language performance skills. Special emphasis on the linguistic, sociolinguistic, and psycholinguistic bases for selecting appropriate ESL methods and techniques. *Prerequisite: ENG 3319 or 6350, or consent of instructor.*

**ENG 6329 PROBLEMS IN ENGLISH AS A SECOND LANGUAGE**

Studies in special problem areas of language and practice which prospective teachers of ESL students will encounter in the classroom. May be repeated once for credit when the topic varies. *Prerequisite: ENG 6328, or consent of instructor.*

**ENG 6344 STUDIES IN GRAMMAR, DIALECTS, AND LANGUAGE PERFORMANCE**

Studies of grammar, dialects, and language performance as they are applicable to the bilingual and/or second language learner.

**ENG 6345 PROBLEMS IN GRAMMAR, DIALECTS, AND LANGUAGE PERFORMANCE**

A study of the second language learner's transition from regional usage to standard usage. Emphasis upon practical implementation of theories of grammar, dialects, and language performance.

**ENG 6347 PROBLEMS IN LITERARY CRITICISM**

Major aesthetic theories related to exercises in practical criticism.

**ENG 6350 INTRODUCTION TO DESCRIPTIVE LINGUISTICS FOR TEACHERS**

An introduction to the methods of linguistics science with emphasis on problem solving techniques and the application to specific problems; includes a research project exploring the application of linguistics to specific situations. Not open to students with credit in ENG 3319.

**ENG 6351 PROBLEMS IN LINGUISTICS**

Studies in modern linguistics with emphasis on the practical help which the science offers to the student of the English language. May be repeated once when the emphasis varies. (Special topics to be announced in schedule of classes.)

*Prerequisite: ENG 3319, 6350 or consent of the instructor.*

**ENG 6352 PRACTICUM IN ESL**

Supervised experience in teaching/working with learners of ESL in (a) English 1406, (b) a tutorial or (c) a laboratory. Actual experience will be based on theoretical principles and methodology of modern language teaching. Sample lesson plans will be developed and tried under the supervision of trained ESL personnel in a university context in order to meet the needs of ESL learners. *Prerequisite: ENG 6329, or consent of Instructor.*

**ENG 6353 ESL TESTING**

Evaluation of second language learners of English following the principles and guidelines for diagnostic, placement, profi-

ciency, and classroom testing in ESL. Areas covered include principles and procedures for selecting, preparing, administering and interpreting results of tests of ESL learning. *Prerequisite: ENG 6328, 6329, or consent of instructor.*

**ENG 6360 STUDIES IN ENGLISH LITERATURE**

Usually offered three times per year

A study in English literature. May be repeated for credit when the topic varies. (Specific topics to be announced in schedule of classes.)

**ENG 6370 STUDIES IN AMERICAN LITERATURE**

Usually offered three times per year

A study in American literature. May be repeated for credit when the topic varies. (Specific topics to be announced in schedule of classes.)

**ENG 6379 STUDIES IN COMPARATIVE LITERATURE: CLASSICAL TO MEDIEVAL**

The comparison of particular topics, motifs, or genres in the literature of two or more languages or cultures.

**ENG 6380 STUDIES IN COMPARATIVE LITERATURE: RENAISSANCE TO MODERN**

The comparison of particular topics, motifs, or genres in the literature of two or more languages or cultures.

**ENG 6390 STUDIES IN SPECIAL TOPICS**

Extensive study in topics not limited to American or English literature. May be repeated for credit when the topic varies.

**ENG 7300 THESIS**

On Demand

**ENG 7301 THESIS**

On Demand

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## Finance

See Department of Marketing, Finance and General Business

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## French

See Department of Modern Languages and Literatures

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## Geography

See Department of Physics and Geology

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## Geology

See Department of Physics and Geology

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## German

See Department of Modern Languages and Literatures

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## Department of Health and Kinesiology

*Dr. Layne Jorgensen, Chair*

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### Full-time Faculty

Guinn, Robert\* (PhD, Texas A&M University, 1974), Professor, Health Education.

Hawkins, Jeanette (MEd, West Texas State University, 1966), Assistant Professor, Gymnastics.

Johnson, Randy\* (PhD, Ohio State University, 1990), Assistant Professor, Pedagogy, Gymnastics.

Jorgensen, Layne\* (PhD, Louisiana State University, 1971), Associate Professor, Biomechanics, Research Methods.

Mottinger, Sue\* (PhD, Texas Woman's University, 1981), Assistant Professor, Administration, Physical Education.

Ogletree, Alfred H. (MEd, Texas A&M University, 1955), Associate Professor, Coaching.

Rabke, Mary Lee\* (PhD, Texas Woman's University, 1959), Professor, Motor Learning, Coaching, History of Kinesiology.

Semper, Thomas\* (PhD, Texas A&M University, 1971), Associate Professor, Physiology of Exercise, Secondary School Methods.

Sturdivant, Diane F. (MS, Kansas State Teachers College, 1955), Assistant Professor, Movement Education, Elementary School Methods.

Villas, Paul\* (EdD, University of Tennessee, 1988), Assistant Professor, Health Education, Public Health.

### \*Graduate Faculty

The Department of Health and Kinesiology offers a Bachelor of Science degree with majors in Health and in Kinesiology. The department offers minors in Health and in Kinesiology.

At the graduate level, the Department of Health and Kinesiology offers a Master of Education degree with a specialization in Kinesiology.

In teacher certification the following plans are offered:

#### *Health*

Elementary Option I

Elementary Option II

Secondary Option II

#### *Kinesiology*

Elementary Option I

Elementary Option II

Secondary Option I

Secondary Option II

All-Level Kinesiology Option II

The University College requirement for all students is 4 activity semester hours of credit in Kinesiology. This requirement is met during the freshman and/or sophomore years by taking two 2-hour physical activity courses. Students who are unable to participate in physical activity courses are required to take KIN 2301 to satisfy the requirement.

### Special UC/GE Requirements for Bachelor of Science Degrees in Health and Kinesiology

Natural Science

BIOL 2403 and 2404 required

KIN 1201 and 1200 or another swim course (for Kinesiology majors only)

**Student Teaching:** Please refer to the Student Teaching section under the Department of Curriculum and Instruction — Elementary and Secondary.

### Health Degree Requirements

Health majors should consult with their adviser in the Department of Health and Kinesiology.

**Health Major (non-certified or institutional major)**

30 semester hours in Health of which 15 must be advanced. Biology 2403 and 2404 are required.

**Health Minor (non-certified or institutional minor)**

18 semester hours in Health, of which 6 must be advanced.

**Teacher Certification in Health**

*Elementary Option I:* 12 semester hours in Health of which 6 must be advanced; must include HLTH 1354 and 2352 and 6 hours from HLTH 3373, 3374, 3375. 8 semester hours of biological science are required, preferably Biology 2403 and 2404.

*Elementary Option II:* 18 semester hours in Health, of which 9 must be advanced; must include HLTH 1352, 2352, 2372 and 6 hours from HLTH 3373, 3374 or 3375 and 3 advanced hours of HLTH electives. 8 semester hours of biological science are required, preferably Biology 2403 and 2404.

*Secondary Option II (minor or second teaching field):* 24 semester hours in Health, of which 12 must be advanced; must include HLTH 1354 and 4350. Select 9 hours from HLTH 1352, 2371, 2372, 2373 and 9 semester hours from HLTH 3373, 3374, 3375, 4357. 18 semester hours of professional education: EDCI 4301, 4302, 4307, 4308, 4641 (student teaching). Biology 2403 and 2404 are suggested.

**Kinesiology Degree Requirements**

Kinesiology majors should consult with their adviser in the Department of Health and Kinesiology.

**Major in Kinesiology (non-certified or institutional minor)**

36 semester hours in Kinesiology are required. 30 semester hours must be professional Kinesiology and must include KIN 1351, 1354, 2354, 3312, 3319, 3353, 3365. 9 semester hours (6 advanced) of electives. 6 semester hours (in addition to General Education Requirements) are in Kinesiology activity courses; must select 2 semester hours from each of the following three areas:

1. 1250, 1255, 2201, 2202, 2221. Team sports
2. 2203, 2204, 2213, 2241, 2242, 2256, 2264. Dual sports
3. 2206, 2207, 2208, 2216, 2225, 2226, 2235, 2253, 2257, 2258, 2259, 2273. Individual sports

Biology 2403 and 2404 are required.

**Minor in Kinesiology (non-certified or institutional minor)**

24 semester hours in Kinesiology are required. 18 semester hours must be professional Kinesiology of which 6 must be advanced. 6 semester hours (in addition to General Education Requirements) are in Kinesiology activity courses: KIN 1200, 1201 and 2 semester hours elective.

**Teacher Certification in Kinesiology**

*Elementary Option I:* 12 semester hours in professional Kinesiology are required: KIN 3310, 3313, 3317, and 3356. Biology 2403 and 2404 are suggested.

*Elementary Option II:* 18 semester hours in professional Kinesiology are required: KIN 3310, 3313, 3317, 3356 and 6 hours from KIN 3300, 3302, 3303, 3304, 3305, 3320, 4351. Biology 2304 and 2404 are suggested.

*Secondary Option I:* 36 semester hours in Kinesiology are required. 30 semester hours must be professional Kinesiology and must include KIN 1351, 1354, 2354, 3312, 3319, 3353, 3365 and 9 semester hours from KIN 3300, 3302, 3303, 3304, 3305, 3320, 3352, 4351. 6 semester hours (in addition to General Education Requirements) are in Kinesiology activity courses; must select 2 semester hours from each of the following three areas:

1. 1250, 1255, 2201, 2202, 2221. Team Sports
2. 2203, 2204, 2213, 2241, 2242, 2256, 2264. Dual Sports
3. 2206, 2207, 2208, 2216, 2225, 2226, 2235, 2253, 2257, 2258, 2259, 2273. Individual sports

18 semester hours of professional education: EDCI 4301, 4302, 4307, 4641 and EDCI 4354. Biology 2403 and 2404 are required.

*Secondary Option II (minor or second teaching field):* 30 semester hours in Kinesiology are required. 24 semester hours must be professional Kinesiology and must include KIN 1351, 1354, 2354, 3312, 3319, 3353, 3365 and 3 semester hours from KIN 3300, 3302, 3303, 3304, 3305, 3320, 3352, 4351. 6 semester hours (in addition to General Education Requirements) are in Kinesiology activity courses: KIN 1200, 1201 and 2 semester hours elective. 18 semester hours of professional education. Biology 2403 and 2404 are suggested.

*All-Level Option II:* 36 semester hours in Kinesiology are required. 30 semester hours must be professional Kinesiology

and must include KIN 1351, 1354, 2354, 3313, 3319, 3353, 3356, 3365, 3352 or 4351 and 3 semester hours from KIN 3300, 3302, 3303, 3304, 3305, 3320. 6 semester hours (in addition to General Education Requirements) are in Kinesiology activity courses; must select 2 semester hours from each of the following three areas:

1. 1250, 1255, 2201, 2202, 2221. Team Sports
2. 2203, 2204, 2213, 2241, 2242, 2256, 2264. Dual Sports
3. 2206, 2207, 2208, 2216, 2225, 2226, 2235, 2253, 2257, 2258, 2259, 2273. Individual sports.

18 semester hours of professional education: EDCI 4301, 4302, 4305, 4699 and EDUK 4354. Biology 2403 and 2404 are required.

### **Athletic Coaching Specialization**

In an effort to meet the demand for men and women coaches in all sports, an Athletic Coaching Specialization Certificate is offered. With the completion of this program, a Departmental Certificate is awarded. The student need not be either a major or minor in Kinesiology to complete this program.

To be eligible to receive the Athletic Coaching Specialization Certificate, the student must complete the following program of study:

*Required Courses:* (12 hours)

KIN 2354 Biomechanics  
KIN 3352 Care and Prevention of Athletic Injuries  
KIN 3353 Physiology of Exercise  
HE/KIN 1354 First Aid

*Select Four from the Following:* (12 hours)

KIN 3300 Theory of Football  
KIN 3302 Individual Sports  
KIN 3303 Theory of Basketball  
KIN 3304 Theory of Baseball  
KIN 3305 Theory of Track and Field  
KIN 3320 Theory of Volleyball  
KIN 3333 Theory of Soccer

### **Athletic Trainer Licensure Program**

The Department of Health and Kinesiology and the UT Pan American Head Athletic Trainer provide an avenue for UT Pan American students to secure a Texas State Athletic Trainer Licensure through the Texas Department of Health. An Athletic Trainer is an Allied Health Care Professional primarily concerned with the prevention, recognition, immediate treatment and rehabilitation of injuries incurred in an athletic or sports setting. Athletic Trainers are employed in a wide variety of settings including but not limited to interscholastic athletic programs, intercollegiate athletic programs, sports medicine clinics, and health clubs. The requirements for licensure are:

#### **A. Curriculum Requirements:**

1. BIOL 2403 Anatomy and Physiology
2. BIOL 2404 Anatomy and Physiology or KIN 3353 Physiology of Exercise
3. KIN 1354 First Aid (must include CPR Certification)
4. KIN 2354 Biomechanics
5. KIN 3352 Care and Prevention of Athletic Injuries
6. Health — any 3 hours

#### **B. Apprenticeship (Internship) Requirements:**

1. Scheduled interview with UT Pan American Head Athletic Trainer.
2. Minimum of three academic years (six semesters of Fall and Spring) under direct supervision of State Licensed Athletic Trainer (UT Pan American Head Athletic Trainer).
3. A minimum of 600 supervised "lab clock hours" each year for a total of 1800 hours.
4. Student must be enrolled as a full-time student at UT Pan American during each of the three academic years (six semesters).

#### **C. Application Requirements for Texas State License Exam:**

1. Student must request an application from the Texas Department of Health.
2. Student must be within 30 semester hours of graduation and must have completed at least 1500 hours (five semesters) of Apprenticeship.

#### **D. Texas State License is Granted:**

1. Once applicant has successfully passed the Texas State License Exam.
2. Once applicant has provided proof of graduation from UT Pan American.

3. Once applicant has all documentation regarding Apprenticeship and course requirements in order.
4. Once applicant has paid his/her licensure fee.
5. If applicant has not been convicted of a felony or misdemeanor relating to the duties of an Athletic Trainer.

## Graduate Program

The Department of Health and Kinesiology offers a Master of Education Degree with a specialization in Kinesiology. Students must meet minimum Graduate School and School of Education entrance requirements, complete an oral examination following the completion of 12 semester hours of graduate work, and pass a comprehensive written examination at the end of the program. Students must select either thesis or non-thesis route. Both are 36-hour programs.

### Master of Education Degree in Kinesiology

<i>Major</i> Kinesiology	<i>Certificate</i> Professional
<i>Specialization Area</i> <i>Required:</i>	(24 hours)
KIN 6301 History and Philosophy of Kinesiology	(12 hours)
KIN 6302 Methods of Research in Kinesiology	
KIN 6303 Applied Tests and Measurements in Kinesiology	
KIN 6304 Scientific Foundations of Kinesiology	
<i>Electives in Major Area:</i>	(12 hours)
KIN 6305 Curriculum Construction in Kinesiology	
KIN 6306 Planning and Use of Facilities for Kinesiology	
KIN 6307 Psychology of Motor Learning	
KIN 6308 Current Readings in Kinesiology	
KIN 6312 Organization and Conduct of Dance in Schools	
KIN 6320 Independent Research	
KIN 5313 Workshop in Kinesiology	
KIN 5351 Kinesiology for the Handicapped Student	
KIN 5357 Health Seminar	
KIN 7300 Thesis	
KIN 7301 Thesis	
<i>Professional Education</i>	(6 hours)
ED 6388 Socio-Cultural Foundations of Education	
<i>3 hours from:</i>	
ED 6302 Advanced Educational Psychology	
ED 6311 Advanced Child Psychology	
ED 6341 Advanced Adolescent Psychology	
<i>Resource Area</i>	(6 hours)
<i>Electives: With the approval of the adviser, the student will select 6 semester hours of graduate level courses other than those offered in Education and in Health and Kinesiology to complete the degree requirements.</i>	
<b>TOTAL</b>	<b>36 hours</b>

## Course Descriptions

### Health

#### HLTH 1352 COMMUNITY AND ENVIRONMENTAL HEALTH

Basic community health problems with emphasis upon communicable disease, waste disposal, safe water, food and drug control and the improvement of community health.

#### HLTH 1354 SAFETY AND FIRST AID

Basic knowledges for safe and effective living. The essential aspects of home, work, motor vehicle, and public safety. Includes both theoretical and practical aspects of emergency care. Standard First Aid and Personal Safety and Cardio-Pulmonary Resuscitation (CPR) certification upon completion of specific requirements.

**HLTH 2352 PERSONAL HEALTH AND WELLNESS**

A survey of factors involved in human physical and psychological wellness. Disorders arising from mutagenic, teratogenic infections, environment, and lifestyle behaviors will be studied. (Not used for teacher certification.)

**HLTH 2371 HEALTH PROBLEMS IN THE USE OF ALCOHOL, TOBACCO AND NARCOTICS**

Examination of the psychological, physiological and social effects of the misuse of drugs and other harmful agents. Legal and ethical implications for the individual and society.

**HLTH 2372 NUTRITION AND HEALTH**

Study of food constituents relating to human nutritive needs and sources through the span of life, infancy through later adulthood.

**HLTH 2373 GROWTH, DEVELOPMENT AND FITNESS**

A study of the growth process and systemic development of the human organism. The concept of physical fitness is analyzed and related to organismic function and well being.

**HLTH 3373 HUMAN SEXUALITY**

Adjustment of the individual to life in the social group with emphasis upon problems occurring in mental and emotional health, aging, family living and human sexuality.

**HLTH 3374 CHRONIC AND DEGENERATIVE DISEASE**

A study of chronic and degenerative disease with respect to the nature, source, incidence, control, and treatment of diseases such as: cancer, cardio-vascular anomalies, neurological disorders, mental retardation, and genetic disorders. Emphasis is upon providing sufficient and usable information which will provide the basis for responsible action in matters of personal health.

**HLTH 3375 CONSUMER HEALTH**

Selection, evaluation and understanding of health information, medical services, health product and advertising and socio-cultural factors in consumer health protection.

**HLTH 4350 ORGANIZATION OF THE HEALTH PROGRAM**

The organization and management of the Health program in school, community and clinical settings with special emphasis on program phases, responsibilities, evaluation, and functional relationships with local, state and federal agencies. *Prerequisite: 15 hours of Health.*

**HLTH 4352 PRACTICUM IN HEALTH CURRICULUM WRITING**

The development of curriculum materials appropriate to current methodologies. Special emphasis is placed upon Texas Education Agency recommended guidelines and teaching demonstrations of designed units. *Prerequisite: HLTH 4350.*

**HLTH 4357 HEALTH SEMINAR**

Summer, odd years

For teachers, nurses, principals, superintendents and community leaders to gain perspective and insight into essential cooperative efforts of home, school and community to meet the growing health needs of our society.

**HLTH 4358 CURRENT HEALTH READINGS AND REPORTED RESEARCH**

Research and analysis of the latest concepts and findings relating to the school health program. This will be conducted through review of the literature, written reports, and independent study in a health-substantive area.

### Kinesiology Activity Courses

*There is a \$6 activity fee for each class unless otherwise indicated.*

**KIN 1160 DANCE PERFORMANCE - FOLKLORIC**

An organization open to all college students who possess sufficient interest and skills in the area of dance. Membership is determined by audition. The course includes rehearsals and performance designed to promote individual growth in a particular dance form appropriate for public performances. Credit may not be used to satisfy kinesiology requirement. May be repeated for credit. By instructor permission only.

**KIN 1161 DANCE PERFORMANCE - DANCE ENSEMBLE**

An organization open to all college students who possess sufficient interest and skills in the area of dance. Membership is determined by audition. The course includes rehearsals and performance designed to promote individual growth in a particu-

lar dance form appropriate for public performances. Credit may not be used to satisfy Kinesiology requirement. May be repeated for credit. By instructor permission only.

**KIN 1200 SWIMMING I**

**KIN 1201 FITNESS AND MOTOR DEVELOPMENT**

**KIN 1250 SPEEDBALL-SOCCER**

**KIN 1255 SOFTBALL**

**KIN 2201 FLAG FOOTBALL**

**KIN 2202 VOLLEYBALL**

**KIN 2203 BADMINTON I**

**KIN 2204 TENNIS I**

**KIN 2206 WEIGHT TRAINING I**

**KIN 2207 TRACK AND FIELD**

**KIN 2208 GYMNASTICS I**

**KIN 2213 BADMINTON II**

**KIN 2216 WEIGHT TRAINING II**

**KIN 2221 BASKETBALL**

**KIN 2223 SPANISH DANCE**

**KIN 2225 FOLK AND SQUARE DANCE**

**KIN 2226 MODERN DANCE**

**KIN 2227 TAP DANCE**

**KIN 2230 JAZZ DANCE**

**KIN 2232 AEROBIC DANCE**

**KIN 2235 MEXICAN FOLKLORIC DANCE**

**KIN 2236 BALLET**

**KIN 2241 RACQUETBALL I**

**KIN 2242 RACQUETBALL II**

**KIN 2252 SWIMMING II**

**KIN 2253 SOCIAL DANCE**

**KIN 2256 TENNIS II**

**KIN 2257 GOLF**

Fee must be paid directly to the golf course for the use of non-university facilities. At the time of publication of this bulletin, the fee was \$10. (Subject to change)

**KIN 2258 ARCHERY**

**KIN 2259 BOWLING**

Fee must be paid directly to the bowling alley for the use of non-university facilities. At the time of publication of this bulletin, the fee was \$65. (Subject to change)

**KIN 2264 FENCING**

**KIN 2273 GYMNASTICS II**

**KIN 2280 LIFEGUARD TRAINING**

*Prerequisite: KIN 2252 or current emergency water safety.*

**KIN 2281 WATER SAFETY INSTRUCTION**

*Prerequisite: KIN 2280 or current lifeguard training or emergency water safety.*

**KIN 2282 SCUBA DIVING**

Fee must be paid to outside vendor. At the time of publication of this bulletin, the fee was \$200. (Subject to change)

### Theory Courses

**KIN 1351 INTRODUCTION TO KINESIOLOGY**

Orientation to the field of kinesiology, its scope, organization of professional activities, vocational opportunities and professional qualifications.

**KIN 1354 SAFETY AND FIRST AID**

Basic knowledges for safe and effective living. The essential aspects of home, work, motor vehicle and public safety. Includes both theoretical and practical aspects of emergency care. Standard First Aid, Personal Safety and Cardio-Pulmonary Resuscitation (CPR). Certification upon completion of specific requirements.

**KIN 2301 HEALTH-RELATED PHYSICAL FITNESS APPRAISAL**

Introduction to health-related physical fitness and health risk appraisal procedures that are intended to provide the intellectual and motivational base for positive health. (Taken by students who cannot take 4 hours of required Kinesiology activities. Fulfills University College requirements.)

**KIN 2354 BIOMECHANICS**

A study of the structural and mechanical factors which interact with human movement. *Prerequisite: BIOL 2403, 2404.*

**KIN 3300 THEORY OF FOOTBALL**

A study and participation in the fundamentals and techniques, rules and strategies of football.

**KIN 3302 TEACHING INDIVIDUAL SPORTS**

The current theories of teaching selected individual/dual sports.

**KIN 3303 THEORY OF BASKETBALL**

A study and participation in the fundamentals, techniques, rules and strategies of basketball.

**KIN 3304 THEORY OF BASEBALL**

A study involving the use of theory in the analysis and interpretation of coaching techniques and fundamentals in baseball.

**KIN 3305 THEORY OF TRACK AND FIELD**

A study involving the use of theory in the analysis and interpretation of coaching techniques and fundamentals in track and field.

**KIN 3310 MODIFIED TEAM AND INDIVIDUAL SPORTS**

Analysis and presentation of sports in a modified form appropriate for the elementary school.

**KIN 3312 DANCE ACTIVITIES FOR ADOLESCENTS**

Analysis of skill and techniques in teaching social, folk, and square dance.

**KIN 3313 DANCE FOR CHILDREN**

Analysis of skills and techniques in teaching creative dance and folk dance for the elementary school.

**KIN 3317 THEORY AND PERFORMANCE OF GYMNASTICS**

Development of the basic techniques and performance skills of tumbling and gymnastic apparatus.

**KIN 3319 TUMBLING AND GYMNASTICS**

Analysis of skills and techniques in teaching basic tumbling and gymnastics.

**KIN 3320 THEORY OF VOLLEYBALL**

A study involving the use of theory in the analysis and interpretation of coaching techniques and fundamentals of volleyball.

**KIN 3333 THEORY OF SOCCER**

A study of the use of theory in the analysis and interpretation of coaching techniques and fundamentals in soccer.

**KIN 3352 CARE, TREATMENT AND PREVENTION OF ATHLETIC INJURIES**

Prevention and correction of accidents in physical education and athletic activities. The use of proper personal and field equipment, support methods, conditioning exercises, therapeutic aids, medical examinations and massage.

**KIN 3353 PHYSIOLOGY OF EXERCISE**

Basic systemic adaptations to exercise with specific emphasis on teaching kinesiology, and on training and conditioning athletes. *Prerequisite: KIN 2354.*

**KIN 3356 MOVEMENT EXPLORATION**

A course structured to acquaint students with the essential elements of kinesiology. The underlying techniques of movement exploration are presented.

**KIN 3365 TESTS AND MEASUREMENTS IN KINESIOLOGY**

The use, interpretation, evaluation, and administration of valid tests in kinesiology. Also involves the application of elementary statistical procedures.

**KIN 3381 SWIMMING AND AQUATICS PROGRAM MANAGEMENT**

Analysis of competitive and recreational swimming strokes, theory of coaching, and aquatic management.

**KIN 4313 WORKSHOP IN KINESIOLOGY**

Analysis of the cause and effect of handicapping conditions most frequently encountered and the formation of activity programs designed to improve physical, mental, and emotional functional levels to the greatest extent possible. *Must obtain the chair's permission.*

**KIN 4351 ADAPTED KINESIOLOGY**

The selection and planning of kinesiology for students whose activity must be adapted due to demands by gravity, trauma, injury, congenital defect, illness, or disease.

**EDUK 4354 KINESIOLOGY IN THE SECONDARY SCHOOLS**

A survey of activities for program planning in junior and senior high schools including unit instruction, lesson planning, class organization, special programs and sources of materials. Laboratory experience to be arranged.

### Graduate Theory Courses

*Obtaining a Master of Education Degree in Kinesiology requires a minimum of two years. Prospective master's candidates should realize that the required courses cycle once every two years and that missing a course will possibly delay their graduation. Once the master's is begun, the candidate has seven years to complete the requirements.*

**KIN 5313 WORKSHOP IN KINESIOLOGY**

This course is designed to provide in-depth experiences for the prospective teacher, coach and recreation leader in the development of both current theories and practices in presenting selected areas of kinesiology such as aquatics, dance, gymnastics and/or sports. The course may be repeated for credit, up to nine semester hours, when the topic is different. *Prerequisite: 12 semester hours of kinesiology. Must obtain the chair's permission.*

**KIN 5351 KINESIOLOGY CURRICULUM FOR THE HANDICAPPED STUDENT**

The selection and planning of kinesiology for students whose activity must be adapted due to demands imposed by gravity, trauma, injury, congenital defect, illness or disease. Laboratory work with students will be scheduled. *Must obtain the chair's permission.*



**KIN 5357 HEALTH SEMINAR**

Summer odd years

For administrators, teachers, nurses, and community leaders. Topical discussion areas will center around the interests and needs of the participants and the communities.

**KIN 6301 HISTORY AND PHILOSOPHY OF KINESIOLOGY**

Fall, odd years

Historical development of kinesiology from primitive to modern times. Philosophy of modern kinesiology with application to present day educational programs.

**KIN 6302 METHODS OF RESEARCH IN KINESIOLOGY**

Spring, even years

Introduction to methods and materials of research in the field. Approved methods of writing term papers and research papers.

**KIN 6303 APPLIED TESTS AND MEASUREMENTS IN KINESIOLOGY**

Spring, odd years

A critical consideration of the importance and limitations of measurements in physical education. Emphasis placed on those measurements that are most needed today. The statistical treatment and interpretation of research data.

**KIN 6304 SCIENTIFIC FOUNDATIONS OF KINESIOLOGY**

Fall, even years

Background of kinesiology from biological, anatomical, and physiological aspects.

**KIN 6305 CURRICULUM CONSTRUCTION IN KINESIOLOGY**

Spring, odd years

A critical study of principles, problems and procedures in the construction of a kinesiology program. Attention will be given to the application of these principles in the construction of a course of study for a specific situation.

**KIN 6306 PLANNING AND USE OF FACILITIES FOR HEALTH AND KINESIOLOGY**

Spring, even years

Principles, terminology and standards for planning construction, use and maintenance of facilities.

**KIN 6307 PSYCHOLOGY OF MOTOR LEARNING**

Fall, odd years

A study of the application of principles of psychology to learning situations involved in motor skills acquisitions. Emphasis will be given both to the general learning situations involved in the mastery of motor skills and to the special situations involved with individual and group problems of motivation and response.

**KIN 6308 CURRENT READINGS IN KINESIOLOGY**

Fall, even years

Extensive readings and discussion of selected topics in the field.

**KIN 6312 ORGANIZATION AND CONDUCT OF DANCE IN SCHOOLS**

Summer, even years

To provide theory and knowledge in presenting dance in the school setting. Includes historical background of programs of dance for groups K-12, conduct of performing groups, and production at public performances.

**KIN 6320 INDEPENDENT RESEARCH**

Individual investigation of a problem in kinesiology that involves one of the techniques of research. Students will work under a designated faculty member and must have their research approved prior to registering. *Must obtain the chair's permission.*

**KIN 7300 THESIS**

Scheduled by chair.

**KIN 7301 THESIS**

Scheduled by chair.

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## Department of History and Philosophy

*Dr. Rodolfo Rocha, Chair*

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The Department of History and Philosophy offers both a major and a minor in history and in philosophy. In addition, it offers courses for students seeking a second teaching field for teacher certification. On the graduate level, the department offers a Master of Arts in History and a Master of Arts in Interdisciplinary Studies with a concentration in History.

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### History

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#### Full-time Faculty

Barzman, John (PhD, University of California at Los Angeles, 1987), Assistant Professor, World History, Modern Europe, France.

Garza, Juanita (MAIS, Pan American University, 1984), Lecturer, U.S. History.

Henggeler, Paul R. (PhD, Bowling Green State University, 1989), Assistant Professor, Recent U.S. History, American Presidency.

Ledesma, Irene (PhD, The Ohio State University, 1992), Assistant Professor, Women History, Latin America, 20th Century U.S. History.

Miller, Christopher L. (PhD, University of California at Santa Barbara, 1981), Associate Professor, U.S. Colonial, 19th Century, Native American.

Miller, Hubert J. (PhD, Loyola University, 1965), Professor, Mexico, Central America.

Neitzel, Sarah C. (PhD, Texas Tech University, 1974), Professor, Germany, Russia, European Social and Cultural.

Prather, Charles (MA, North Texas State University, 1969, Assistant Professor, U.S. Colonial.

Rocha, Rodolfo (PhD, Texas Tech University, 1981), Associate Professor and Chair, Borderlands, Chicano, Mexico, Texas.

Salmon, Roberto M. (PD, University of New Mexico, 1978), Professor, U.S. Southwest, Chicano Studies.

Vassberg, David (PhD, University of Texas at Austin, 1971), Professor, Spain, Brazil, Early Modern Europe.

Weaver, Michael K. (PhD, University of North Carolina at Chapel Hill, 1989), Assistant Professor, British, Modern Europe.

Welch, Raymond P. (PhD, University of Pennsylvania, 1970), Associate Professor, History of Ideas.

Students majoring or minoring in history may become teachers or seek employment in business or government. History is an excellent background for those who wish later to go to law school or enter journalism. The Department of History, in conjunction with the Departments of Modern Languages and Literatures, Sociology, and Social Work, also offers a BA degree in Latin American Studies.

Beginning history majors are urged to take Civilization Through the Centuries and American Heritage early in their academic careers. Well-prepared students are encouraged to establish credit in some of these beginning courses by passing advanced standing examinations.

The department also welcomes non-history majors who may wish to take courses in Mexican-American Heritage, Russia or a wide assortment of courses in Latin American, American and European history.

### Degree Requirements

#### Major in History (with or without Teacher Certification):

A major in history will demand 36 semester hours in history, including HIST 2331\* or 2332\*, 2313\* and 2314\*. Majors must take 18 advanced hours and these advanced hours must include at least 6 semester hours from each of the three fields of American, European and Latin American history.

#### Minor in History

Minors in history will take 18 semester hours, including HIST 2331\* or 2332\*, 2313\*, 2314\*. Minors must take 6 advanced hours.

\*With department approval, Honors 2387, 2388 may be substituted for HIST 2331, 2332. Honors HIST 2387, 2388 may be substituted for HIST 2313, 2314.

## Teacher Certification in History

*Secondary Plan I:* 36 semester hours of history, of which 15 semester hours must include HIST 2331, 2332, 2313, 2314, and 3330. The remaining 21 hours must be advanced and include 6 semester hours from each of the three fields: American, Latin American and European history. No second teaching field is required.

*Secondary Plan II:* 24 semester hours of history, of which 12 semester hours must include HIST 2331 or 2332, 2313, 2314, and 3330. The remaining 12 hours must be advanced and include 3 advanced semester hours from each of the three fields: American, Latin American and European.

*Secondary Plan IV, Composite Social Studies Certification:* 48 semester hours in the social sciences. Must include HIST 2331 or 2332, 2313, 2314, 3330, and 12 advanced semester hours with 3 hours from each of the American, Latin American and European fields of history; POLS 2313, 2314; ECO 2353, 2354; GEOG 2301, 2313; and 6 semester hours from the following: ECO 3351, 3352, 3355, 4359; POLS 3314, 3333, 3334, 3343, 3344.

*Elementary Plan I, History Specialization:* 12 semester hours of history, which must include Hist 2331 or 2332, 3330 and 6 advanced hours in history.

*Elementary Plan II, History Specialization:* 18 semester hours of history, which must include HIST 1333, 1334, 3330 and 9 advanced semester hours with 3 semester hours from each of the American, Latin American and European fields of history.

*Elementary Plan III, Social Studies Specialization:* 24 semester hours in social studies. Must include HIST 3313 or 3324 or 4343, HIST 4322 or 4325, HIST 4303 or 4313 or 4395, POLS 2313, 2314, ECO 1301, 3336, GEOG 2313, 3333.

## History Graduate Program

The department offers courses leading to the Master of Arts in History and the Master of Arts in Interdisciplinary Studies with a concentration in History. In addition, the department offers courses to meet the minor and support area requirements for degrees in other fields.

Students pursuing the MA in History may focus on one of several specializations, including academic or teaching concentrations, and should consult with the graduate adviser in selecting coursework.

### Departmental Requirements for the Master of Arts Degree in Interdisciplinary Studies

Before admission to candidacy by the Department of History, applicants must have completed or must complete as leveling work 24 semester hours of undergraduate history courses, half of which must be at the upper division level. Full-time graduate students, who must meet the above requirements, should take up to 9 semester hours of such leveling work while taking a limited number of graduate hours. Graduate history majors are required to consult with the departmental graduate adviser concerning coursework and schedules until admitted to candidacy. Candidates may elect one of two options to complete the Master of Arts degree in Interdisciplinary Studies with a concentration in History.

1. *Thesis program:* 30 semester hours with 18 hours in history, including the thesis which is required. Candidates must select the remaining 12 hours from two or more related fields such as political science, sociology, English, economics, Spanish, education, or business.

2. *Non-thesis program:* 36 semester hours with 12-18 hours in history. Candidates must select the remaining 18-24 hours from two or more related fields. Candidates must also pass a comprehensive examination administered by the department.

### Master of Arts Degree in Interdisciplinary Studies

#### Concentration

#### History

18 semester hours of course work in history (including thesis) with no more than half at the 5000 level and 18 semester hours in two or more related areas. History 6300 required of all students.

#### Thesis

#### Requirements:

HIST 6300 Historiography and Historical Method

HIST 7300 Thesis

HIST 7301 Thesis

TOTAL

30 hours

## Master of Arts Degree in Interdisciplinary Studies

### Concentration History

### Non-Thesis

18 semester hours in history without thesis with no more than half at the 5000 level and 18 semester hours in two or more related areas, with not more than 12 hours from Education and Business.

#### Requirements:

HIST 6300 Historiography and Historical Methods

TOTAL

36 hours

#### Departmental Requirements for Master of Arts Degree in History

In addition to the general requirements set out elsewhere in this bulletin for graduate admission, the following requirements must be met:

- Applicants for admission must have completed, or must complete as leveling work, 24 semester hours of undergraduate history courses, half of which must be at the upper division level.
- The choice of courses in the History Core and History elective field will be determined through consultation between the student and the History Department Graduate Adviser.

A. Two options will be available to graduate students under the program. Option I will demand 24 semester hours of directed coursework, 6 hours of thesis preparation, and one comprehensive examination. Option II will demand 36 hours of directed coursework and two comprehensive examinations. Students will select from either Option I or Option II.

#### Option I: Thesis Option

Students enrolled in Option I will be required to take 18 semester hours of history course work, including HIST 6300, 6 hours of non-history course work in a single discipline (Anthropology, Sociology, Computer Science, etc.), and 6 hours of thesis preparation. The student will choose two reading areas in consultation with the graduate adviser and will be expected to take a comprehensive examination in whichever area his or her thesis does not include. The questions for the comprehensive examination will be based on readings contained in a department-approved list of works in that particular area. The thesis will be evaluated using current departmental guidelines.

#### Option II: Non-Thesis Option

Students enrolled in Option II will be required to take 30 semester hours of history coursework including HIST 6300 and 6 hours of non-history course work in a single discipline (Anthropology, Sociology, Computer Science, etc.). The student will choose two reading areas in consultation with the graduate adviser and will be expected to take comprehensive examinations in both. The questions for the comprehensive examinations will be based on readings contained in department-approved lists of works in those particular areas.

B. Related academic areas will include, but are not limited to, Political Science, English, Spanish, Economics, Anthropology, Computer Science and Sociology. Students will confirm their choice of related academic area with their graduate adviser.

## Course Descriptions

### History

#### HIST 2313 AMERICAN HERITAGE I

(Texas Common Course Number is HIST 1301.)

Fall, Spring, Summer

An integration of social, political and economic history of the United States with attention directed to geography and its influences. The approach is by problems which move chronologically from the earliest Colonial Period through the Civil War. Open to freshmen who enter with a credit in American History from high school. Credit may be received in only one of HIST 2313, 2387.

#### HIST 2314 AMERICAN HERITAGE II

(Texas Common Course Number is HIST 1302.)

Fall, Spring, Summer

An integration of social, economic and political history of the United States with attention to the geographical influences.

The approach is by problems which move chronologically from Reconstruction to the present. Open to freshmen who enter with a credit in American History from high school. Credit may be received in only one of HIST 2314, 2388.

### **HIST 2331 CIVILIZATION THROUGH THE CENTURIES**

Fall, Spring, Summer

A thorough survey of the political, social and cultural history of Europe through the treaty of Westphalia. Emphasis will be given to the contributions of Greece and Rome to the western world, the fall of Rome, the beginning of feudalism and the rise of national states, the Renaissance and the Protestant reformation. Major developments in world history will be related to these periods of European history. Credit may be received in only one of HIST 2331, HONR 2387.

### **HIST 2332 CIVILIZATION THROUGH THE CENTURIES**

Fall, Spring, Summer

A continuation of History 2331 to the present time. Emphasis will be given to European expansion, the French Revolution and Napoleon, the Industrial Revolution, the spread of Socialism and the world conflicts of the 20th Century. Major developments in world history will be related to these periods of European history. Credit may be received in only one of HIST 2332, HONR 2388.

### **HIST 2335 THE AMERICAN MILITARY EXPERIENCE**

The American Military Experience will be examined from the colonial period to the present. The course will examine not only the operational history of the American military but the causes and consequences of war and the role of the military in American society.

### **HIST 2363 MEXICAN-AMERICAN HERITAGE**

(Texas Common Course Number is HIST 2380.)

Fall, Spring, Summer

An interpretation of the historical heritage of the Mexican American in the United States. (Previously HIST 3373; may not be repeated for credit.) *Prerequisite: 6 semester hours of History.*

### **HIST 2387 AMERICAN HERITAGE I Honors Plan**

Fall

An integration of social, political and economic history of the United States with attention directed to geography and its influences. The approach is by problems which move chronologically from the earliest Colonial Period through the Civil War. Credit may be received in only one of HIST 2313, 2387. *Prerequisite: Admission to Honors Studies or by invitation.*

### **HIST 2388 AMERICAN HERITAGE II Honors Plan**

Spring

An integration of social, economic and political history of the United States with attention to the geographical influences. The approach is by problems which move chronologically from Reconstruction to the present. Credit may be received in only one of HIST 2314, 2388. *Prerequisite: Admission to Honors Studies or by invitation.*

### **HIST 3301 THE HISTORY OF IDEAS**

A study of major beliefs and patterns of thought in Western culture, emphasizing the development of the arts and sciences, social thought and religion. *Prerequisite: 6 semester hours of History.*

### **HIST 3302 WORLD HISTORY STUDIES**

Fall, Spring, Summer

A comprehensive survey of social, economic, political, cultural and geographical factors influencing the course of world history. Emphasis will be on thematic and content material. *Prerequisite: 6 semester hours of History with HIST 2331 recommended.*

### **HIST 3313 AMERICAN COLONIAL ERA TO 1783**

A study of American Colonial history from the founding of the first colony through the American Revolution with emphasis given to the development of American civilization; causes, course and results of the American Revolution. *Prerequisite: 6 semester hours of History.*

### **HIST 3324 FORMATIVE PERIOD OF THE AMERICAN NATION, 1783-1840**

A study of the early years of the American nation from the critical period to the adoption of the Constitution and launching of

the new government through the transformation of American society by the Jacksonian Era of the Common Man. *Prerequisite: 6 semester hours of History.*

**HIST 3330 A GENERAL SURVEY OF THE HISTORY OF TEXAS**

A survey of the history of Texas from indigenous period to present. (Formerly HIST 2333; may not be repeated for credit.) *Prerequisite: 6 semester hours of history.*

**HIST 3333 COLONIAL MEXICO, CENTRAL AND SOUTH AMERICA**

A study of the establishment of Spanish dominion; geography and natural resources; institutional and social development; cultural aspects and contribution. *Prerequisite: 6 semester hours of History.*

**HIST 3335 HISTORY OF SPAIN**

The historical development of the Spanish nation from earliest times to the present. Emphasis will be given to the evolution of the political, economic and social institutions that are important to the conquest and colonization of the Americas. *Prerequisite: 6 semester hours of History.*

**HIST 3341 HISTORY OF ENGLAND I, TO 1686**

English history from earliest times through the period of the Stuart kings. Emphasis will be given to the factors which have influenced the development of British and American institutions. *Prerequisite: 6 semester hours of History.*

**HIST 3342 HISTORY OF ENGLAND II, AFTER 1686**

The period of the Glorious Revolution to the British Empire and commonwealth of nations. *Prerequisite: 6 semester hours of History.*

**HIST 4303 THE EMERGENCE OF MODERN AMERICA, 1877-1917**

A study of the growth of American business and industry, the emergence of the United States as a world power, the populist protest and progressive reform movements. *Prerequisite: 6 semester hours of History.*

**HIST 4313 TWENTIETH CENTURY AMERICA, 1917 TO THE PRESENT**

A study of the history of the United States from World War I to the present with emphasis on domestic and foreign affairs in their relationship to and effect on each other. *Prerequisite: 6 semester hours of History.*

**HIST 4322 THE SPANISH SOUTHWEST TO 1821**

A study of the northward colonization of Mexico with emphasis on institutions and the settlement of the interior provinces of Texas, New Mexico, Arizona and California. (Previously HIST 3322; may not be repeated for credit.) *Prerequisite: 6 semester hours of History*

**HIST 4325 THE AMERICAN SOUTHWEST AFTER 1821**

The American penetration of Texas and the War with Mexico, subjugation of the Indians, extension of mining, railroad, cattle industry and farming across the Southwest; and the transition from raw frontier to modern states of the Southwest. (Previously HIST 3325; may not be repeated for credit.) *Prerequisite: 6 semester hours of History.*

**HIST 4343 ERA OF SECTIONAL CONFLICT, 1840-1877**

United States history from 1840 to 1877 with emphasis upon the development of sectionalism, Southern nationalism, the breakdown of American political parties, Civil War and Reconstruction. *Prerequisite: 6 semester hours of History.*

**HIST 4345 MEXICO'S FIRST CENTURY AS AN INDEPENDENT REPUBLIC**

A study of the political, social and economic development of Mexico from the independence movement to the Revolution of 1910. A study of the problems of Mexico and the various distinct eras of its first century as a republic. (Previously HIST 3343, may not be repeated for credit.) *Prerequisite: 6 semester hours of History.*

**HIST 4352 BRAZIL AFTER INDEPENDENCE**

A study of Brazil as an empire and a republic with emphasis on the social, geographic and political factors that make it a unique nation in the Western hemisphere.

**HIST 4353 HISTORY OF MEXICAN CULTURE**

A study of the Mexican people, including development of their social institutions, thinking, concepts, attitudes, values, reactions and sensitivities. *Prerequisite: 6 semester hours of History.*

**HIST 4354 CONTEMPORARY MEXICO**

A study of the nature and impact of the social, political and economic transformations since the revolutionary epoch of 1910-1917; greatest emphasis on the contemporary factors that have made Mexico's experience unique. *Prerequisite: 6 semester hours of History.*

**HIST 4355 SPANISH SOUTH AMERICA SINCE INDEPENDENCE**

The historical development of the major Hispanic South American republics; general trends in their social, economic and political growth. History 3333 is recommended to precede this course. (Previously HIST 3353; may not be repeated for credit.) *Prerequisite: 6 semester hours of History.*

**HIST 4363 UNITED STATES — LATIN AMERICAN RELATIONS**

The development of a distinctive system of international relations — economic, cultural and political — between the nations of Latin America and the United States. *Prerequisite: 6 semester hours of History.*

**HIST 4370 THE RENAISSANCE AND THE REFORMATION, 1300 to 1650**

A study of the political, social and cultural developments of Western Europe from the decline of the Medieval system, through the Age of the New Monarchies, with emphasis on France, Germany and Italy. *Prerequisite: 6 semester hours of History with HIST 2331 recommended.*

**HIST 4371 RUSSIA SINCE 1905**

Russia from the precursors of the Revolution through the Revolutions of 1905, 1917 and the development of the Soviet regime to current trends. (Previously HIST 3371. Credit cannot be received if HIST 3371 or HIST/GOVT 3372 have previously been completed.) *Prerequisite: 6 semester hours of History with HIST 2332 recommended.*

**HIST 4374 THE CARIBBEAN AND CENTRAL AMERICA**

A study of the 19th-century efforts of these nations to emerge as separate entities and an evaluation of their 20th-century experiences. *Prerequisite: 6 semester hours of History with HIST 3333 recommended.*

**HIST 4375 ABSOLUTISM AND ENLIGHTENMENT IN EUROPE, 1650-1789**

Traces the development of the Absolutist State, benevolent despotism, and the intellectual and scientific trends of the Enlightenment. (Previously HIST 3375; may not be repeated for credit.) *Prerequisite: 6 semester hours of History with HIST 2332 recommended.*

**HIST 4376 REVOLUTIONARY EUROPE, 1789-1850**

A study of Europe of this period with emphasis on the growth of democratic institutions from the beginning of the French Revolution through the Revolution of 1848. (Previously HIST 3374; may not be repeated for credit.) *Prerequisite: 6 semester hours of History with HIST 2332 recommended.*

**HIST 4383 EUROPE'S AGE OF IMPERIALISM, 1850-1919**

A study of European History through the period of growing nationalism and imperialism leading to World War I. (Previously HIST 3383; may not be repeated for credit.) *Prerequisite: 6 semester hours of History with HIST 2332 recommended.*

**HIST 4393 CONTEMPORARY EUROPE, 1919 TO PRESENT**

A study of the causes of World War II, its resulting problems and current trends. (Previously HIST 3393, may not be repeated for credit.) *Prerequisite: 6 semester hours of History with HIST 2332 recommended;*

**HIST 4395 SPECIAL TOPICS IN HISTORICAL STUDY**

A study of selected topics in history, including comparative history and philosophies of history. Topics are varied according to availability of faculty and student interest. Course can be repeated for credit as topics change. *Prerequisite: 6 semester hours of History.*

**HIST 5343 DIRECTED READINGS IN U.S. HISTORY**

A directed study of selected topics in U.S. history. Topics are varied according to availability of faculty and student interest. Course can be repeated once as topic changes.

**HIST 5345 DIRECTED READINGS IN LATIN AMERICAN HISTORY**

A directed study of selected topics in Latin American history. Topics are varied according to availability of faculty and student interest. Course can be repeated once as topic changes.

**HIST 5363 DIRECTED READINGS IN BORDERLAND HISTORY**

A directed study of selected topics in Borderlands history. Topics are varied according to availability of faculty and student interest. Course can be repeated once as topic changes.

**HIST 5373 DIRECTED READINGS IN COMPARATIVE HISTORY**

A directed study of selected topics treated in comparative or transnational perspective, including such topics as development and underdevelopment, regional interaction, the status of women, cultural exchanges, immigration and social change. Topics are varied according to availability of faculty and student interest. Course can be repeated once as topic changes.

**HIST 5383 DIRECTED READINGS IN EUROPEAN HISTORY**

A directed study of selected topics in European history. Topics are varied according to availability of faculty and student interest. Course can be repeated once as topic changes.

**HIST 6300 HISTORIOGRAPHY AND HISTORICAL METHOD**

A description of the chief source materials of history and bibliography; methods of the aids in historical research; and explanations of generally accepted usages in historical composition. (This course is required of all graduate students majoring and minoring in history and should be taken at the start of the graduate's program.)

**HIST 6301 SEMINAR AND PROBLEMS STUDY IN ERAS IN AMERICAN HISTORY TO 1860**

A survey and critique of the bibliography and problems of various eras in American history before the Civil War. May be repeated for credit when topic varies.

**HIST 6303 SEMINAR AND PROBLEMS STUDY IN ERAS IN AMERICAN HISTORY SINCE 1860**

A survey and critique of the bibliography and problems of various eras in American history since 1860. May be repeated for credit when topic varies.

**HIST 6304 TEACHING HISTORY IN THE JUNIOR HIGH SCHOOL**

This course will explore selected themes in world, United States, Texas and local history, and examine how such topics can be better integrated into junior high school (grades 6 through 9) curricula. Emphasis will be focused on creative teaching techniques designed to stimulate student interest in learning history. May be repeated for credit when the topic varies.

**HIST 6305 TEACHING HISTORY IN THE SENIOR HIGH SCHOOL**

This course will explore selected themes in world, United States, Texas and local history, and examine how such topics can be better integrated into senior high school (grades 9 through 12) curricula. Emphasis will be focused on creative teaching techniques designed to stimulate student interest in learning history. May be repeated for credit when the topic varies.

**HIST 6306 STUDIES IN TEXAS AND SOUTHWESTERN HISTORY**

An intensive investigation of selected problems in southwestern history with emphasis on Texas. May be repeated for credit when topic varies.

**HIST 6307 SEMINAR AND PROBLEMS STUDY IN THE HISTORY OF SOUTH AMERICA**

An investigation and critique of the problems and contributions made by the various South American countries in the 19th and 20th centuries and their roles in Inter-American relations. May be repeated for credit when topic varies.

**HIST 6309 SEMINAR AND PROBLEMS STUDY IN THE HISTORY OF MIDDLE AMERICA**

An investigation and critique of the problems and contributions made by Mexico, the Central American, and Caribbean Island nations in the 19th and 20th centuries and their roles in Inter-American relations. May be repeated for credit when topic varies.

**HIST 6311 SEMINAR AND PROBLEMS IN MODERN EUROPEAN HISTORY**

A survey and critique of the bibliography associated with investigations of selected era studies and problems experienced by modern Europe. May be repeated for credit when topic varies.

**HIST 6316 STUDIES IN MEXICAN AND AMERICAN HERITAGES**

An intensive investigation of selected historical problems in the Mexican-American and Anglo-American cultural heritages and the fusion and clash of these cultures.



## **HIST 7300 THESIS**

Research and writing of the thesis.

## **HIST 7301 THESIS**

Research and writing of the thesis.

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# **Philosophy**

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### **Full-time Faculty**

Buckman, Kenneth L. (PhD, Southern Illinois University, 1990), Assistant Professor, Continental Philosophy, Oriental Philosophy, Social Philosophy and 19th and 20th Century Philosophy.

Carter, David K. (PhD, Yale University, 1982), Assistant Professor, Ethics, American Philosophy.

Welch, Raymond P. (PhD, University of Pennsylvania, 1970), Associate Professor, Theory of Mind and Knowledge.

The Department of History and Philosophy offers a major and a minor in philosophy. The study of philosophy can serve many useful purposes, but perhaps the most important are:

- Training in philosophy helps one to think more clearly, more perceptively and more effectively. Regardless of one's personal and occupational goals, and regardless of the projects in which one is interested, being able to think clearly and well about them is an essential tool.
- The study of philosophy uniquely helps one to better understand and appreciate oneself, the world outside and how the two are related. One of the deepest human needs is to make sense of life and one's place in it, and the satisfaction of that need is the central concern of philosophy.

A major in philosophy would provide strong preparation for a variety of careers, particularly in business, law, public policy and the ministry, as well as college teaching. A minor in philosophy would provide excellent support for majors in numerous fields, particularly history, government, English, psychology, sociology, math and certain areas in science and business administration.

## **Degree Requirements**

### **Major in Philosophy:**

A major in philosophy will demand 36 semester hours in philosophy. Majors in philosophy must take a core of 24 semester hours from the following courses (PHIL 1310; 1320; 2330 or 2350; 3320 or 3325; 3310 or 3341; 3360, 3361, 3362). In addition, majors will be required to take 12 additional semester hours in philosophy, 9 of which must be advanced, for a total of 36 semester hours.

### **Minor in Philosophy:**

18 semester hours in Philosophy, of which 6 hours must be advanced; must include PHIL 1310 or 2330, and 1320.

## **Course Descriptions**

### **Philosophy**

#### **PHIL 1310 INTRODUCTION TO PHILOSOPHY**

(Texas Common Course Number is PHIL 1301.)

An introduction to some of the major philosophical questions that have intrigued mankind over the centuries. This will be done through an examination of the thought of some of the most important figures in the history of philosophy from the early Greeks to modern times. (Formerly PHIL 2313, may not be repeated for credit.)

#### **PHIL 1320 INTRODUCTION TO LOGIC**

(Texas Common Course Number is PHIL 2303.)

The subject matter of this course will be clear and effective thinking. It will examine principles for correct reasoning and ways to distinguish good reasoning from bad, and it will consider the kinds of mistakes in reasoning that are most commonly made in everyday life. (Formerly PHIL 2343, may not be repeated for credit.)

**PHIL 1387 INTRODUCTION TO PHILOSOPHY, HONORS PLAN**

An introduction to philosophical questions through an examination of major figures and themes in the history of philosophy from ancient to modern times. Credit may be received in only one of PHIL 1310 or 1387. *Prerequisite: Admission to Honors Program or by permission.*

**PHIL 1388 INTRODUCTION TO LOGIC, HONORS PLAN**

An introduction to the fundamentals of clear and effective thinking through an examination of the principles of correct reasoning, the structure of knowledge and common obstacles to rational thought. Credit may be received in only one of PHIL 1320 or 1388. *Prerequisite: Admission to Honors Program or by permission.*

**PHIL 2330 ETHICS**

(Texas Common Course Number is PHIL 2306.)

This course will be concerned with human values: our own, and those of other people. It will ask where those values come from and how we can know they are worth something, and it will examine several related questions such as personal freedom and the meaningfulness of human life. (Formerly PHIL 1330, 2323; may not be repeated for credit.)

**PHIL 2340 PHILOSOPHY OF THE PERSON**

A philosophical examination of what it is to be human. This course will deal with such issues as the problem of personal identity, the nature and structure of the self, the nature mind and its place in the world and the question of "human nature." (Formerly PHIL 3340; may not be repeated for credit.)

**PHIL 2350 SOCIAL PHILOSOPHY**

(Texas Common Course Number is PHIL 2307.)

This course will provide a philosophical examination of alternative theories of society, and it will investigate the basic presuppositions and structures of society and the ways in which these are to be understood and evaluated. (Formerly PHIL 2380; may not be repeated for credit.)

**PHIL 2370 EASTERN THOUGHT**

An analysis of the major movements in Eastern philosophy and religion and their relationship to basic philosophical developments in the West. This course will examine systems of thought and culture such as Buddhism, Hinduism, Confucianism, Taoism and Shinto.

**PHIL 2390 PROFESSIONAL ETHICS**

This course will employ the tools of ethical theory to examine moral issues and problems facing professionals in such fields as business, industry and technology, medicine, social work, criminal justice and law. The content of individual sections of this course may be derived from any of the fields listed above or from a combination of them, depending on student need.

**PHIL 3310 THEORIES OF KNOWLEDGE**

A philosophical inquiry into the sources, nature and criteria of knowledge and an examination of alternative approaches to the problems of perception, meaning and truth. The course will also consider the interplay between these issues in epistemology and related problems in metaphysics. *Prerequisite: 3 semester hours of Philosophy or consent of instructor.*

**PHIL 3320 SYMBOLIC LOGIC**

This course will be a continuation of Philosophy 1320, Introduction to Logic, and will be concerned with the principles and methods used in symbolic logic to distinguish between valid and invalid arguments. *Prerequisite: PHIL 1320 or consent of instructor.*

**PHIL 3325 PHILOSOPHY OF SCIENCE**

A philosophical examination of the assumptions and methodology of scientific inquiry, with examples drawn from the natural sciences. This course will consider the structure, meaning, confirmation and use of scientific theories, as well as the philosophical implications of current theories in science. *Prerequisite: 3 hours of philosophy or consent of instructor. Students may not receive credit for PHIL 2320 and 3325.*

**PHIL 3330 PHILOSOPHY OF VALUE**

A philosophical examination of the place of value in aesthetic, moral and practical experience. This course will consider both historical and contemporary treatments of the importance of value in various forms to human thought, feeling and action. *Prerequisite: 3 hours of philosophy or consent of instructor.*

**PHIL 3341 PHILOSOPHY OF MIND**

A study of consciousness, emphasizing the nature of awareness and experience. Topics concerning the capacities and creative powers of mind will be examined in theories based on physical, functional and metaphysical arguments. *Prerequisite: 3 hours of philosophy or consent of instructor.*

**PHIL 3360 HISTORY OF PHILOSOPHY: ANCIENT AND MEDIEVAL**

A study of the history of philosophy from the Presocratics through the Middle Ages, with particular emphasis on the Presocratics, Plato, Aristotle, Stoicism, Epicureanism, Augustine and Aquinas. *Prerequisite: 3 semester hours of Philosophy or consent of instructor.*

**PHIL 3361 HISTORY OF PHILOSOPHY: MODERN**

A study of the history of philosophy from the Renaissance through the Eighteenth Century, with particular emphasis on Descartes, Spinoza, Leibniz, Hobbes, Locke, Berkeley, Hume and Kant. *Prerequisite: 3 semester hours of Philosophy or consent of instructor.*

**PHIL 3362 HISTORY OF PHILOSOPHY: CONTEMPORARY**

A study of the history of philosophy during the 19th and 20th Centuries, with particular emphasis on phenomenology, existentialism and the analytic tradition. *Prerequisite: 3 semester hours of Philosophy or consent of instructor.*

**PHIL 3370 PHILOSOPHY OF RELIGION**

A philosophic study of the nature and varieties of religious experience, the meaning and validation of religious belief, the act of faith, the nature and existence of God, the problem of evil, mysticism, immortality, religious belief and moral conduct, religion and myth, and religion and culture. *Prerequisite: 3 semester hours of Philosophy.*

**PHIL 3380 LATIN AMERICAN THOUGHT**

An examination of some of the most important and influential contributions to Latin American thought. Material to be studied will be drawn from both past and contemporary sources. *Prerequisite: 3 semester hours of Philosophy.*

**PHIL 4380 AMERICAN PHILOSOPHY**

An examination of the contributions of great American thinkers to the philosophical deposit of the world. (Formerly PHIL 3313; may not be repeated for credit.) *Prerequisite: 3 semester hours of Philosophy.*

**PHIL 4390 SPECIAL TOPICS IN PHILOSOPHY**

A study of selected issues or figures in philosophy; content will vary. May be repeated for up to 9 semester hours credit as content changes. *Prerequisite: 3 semester hours of Philosophy or consent of instructor.*

## Bible

**BIBL 1310 OLD TESTAMENT SURVEY**

A survey of the history and literature of the Old Testament. Particular emphasis is placed upon the teaching concerning God, man, salvation and social relations; especially those teachings which deal with the preparation for the coming of Christ.

**BIBL 1311 NEW TESTAMENT SURVEY**

A brief survey of the Christian movement in the Mediterranean world during the first century, the life of Christ, the beginning of the Christian church, the life and letters of Paul and the general development of the New Testament as considered from the historical viewpoint.

**BIBL 1312 BIBLE AND EVERYDAY LIVING**

A study of some aspects of the nature of man and of his relationship to Christ as studied in related Bible readings.

**BIBL 1314 ACTS OF THE APOSTLES**

An historical study of the beginning and extension of Christianity, based on the Book of Acts.

**BIBL 2301 THE LIFE OF CHRIST**

A study of the life of Christ as contained in the Gospels.

**BIBL 2302 THE LIFE AND LETTERS OF JOHN**

A study of the life and works of John. A special emphasis given to his gospel and epistles with a brief review of Revelation.

**BIBL 2303 THE LIFE AND LETTERS OF PAUL**

A detailed study of the life and teachings of the Apostle Paul as depicted in the Book of Acts and the Letters of Paul. The missionary journeys and expansion of Christianity will be given major attention.

**BIBL 2304 COMPARATIVE RELIGION**

A nonsectarian approach to and a comparison of, the great religions or systems of personal philosophies of the world including Judaism, Buddhism, Islam, Confucianism, Christianity and some less-known faiths or philosophies.

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## Center for Latin American Studies

*Dr. Lino Garcia, Jr., Director*

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**Full-time Faculty**

The faculty associated with the Center for Latin American Studies and the Latin American Studies major are drawn from a wide variety of departments and programs throughout the University. A list of all Latin Americanist faculty members is available in the Director's office.

**General Description:****BA degree in Latin American Studies**

The undergraduate major in Latin American Studies offers students a unique opportunity to combine concentrated work in one or more academic fields with specific skill/professional study in preparation for careers in a wide variety of areas. These include government and industry, banking and international commerce, international organizations and agencies, private foundations, journalism and teaching. In addition, the LAS major provides excellent preparation for advanced study in graduate or professional schools whose degree programs are related to Latin American concerns.

Established in 1983 to provide an academic focus for the University's unique linguistic, cultural and geographic characteristics, the Center for Latin American Studies is charged with developing, implementing and enhancing the Latin American Studies major. Students wishing to take advantage of this major should consult with the Director of the Center for the most recent opportunities and degree requirements. The degree requirements for this plan are listed below.

**Degree Requirements****Major in Latin American Studies**

48 hours including a minimum of 36 advanced hours to include:

**12 hours from History:**

- HIST 3333 Colonial Mexico, Central and South America
- HIST 3335 History of Spain
- HIST 4322 The Spanish Southwest To 1821
- HIST 4345 Mexico's First Century As An Independent Republic
- HIST 4352 Brazil After Independence
- HIST 4353 History of Mexican Culture
- HIST 4354 Contemporary Mexico
- HIST 4355 Spanish South America Since Independence
- HIST 4363 United States-Latin American Relations
- HIST 4374 The Caribbean and Central America

**Required courses in Spanish:**

SPAN 1301 Beginning Spanish  
SPAN 1302 Beginning Spanish  
SPAN 1303 Beginning Spanish  
SPAN 1304 Beginning Spanish  
SPAN 2307 Intermediate Spanish for Native Speakers  
SPAN 2308 Intermediate Spanish for Native Speakers

**9 hours from Spanish:**

SPAN 3310 Masterpieces of Spanish-American Literature I  
SPAN 3311 Masterpieces of Spanish-American Literature II  
SPAN 3316 The Mexican Novel  
SPAN 4307 Spanish-American Novel  
SPAN 4326 Contemporary Spanish-American Literature: A New Era  
SPAN 4329 Mexico's Contemporary Literature

**3 hours from Political Science:**

POLS 4383 Politics of Central America and The Caribbean  
POLS 4386 South American Politics

**9 hours from:**

ART 4351 Latin American Art: Post-Conquest  
ECO 3336 The Political Economy of Mexico  
ECO 3353 International Trade  
SOC 3343 Social Change  
SOC 4323 The Mexican-American People  
SOC 4373 Latin American Society

Students majoring in Latin American Studies may apply for secondary certification in History or Spanish. Grade point average of 2.25 required for certification. Please consult with Director for specific course requirements.

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**Law (Pre-law)**

See Department of Political Science

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**Department of Management and Computer Information Systems**

*Dr. Michael Crews, Chair*

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**Full-time Faculty**

Allison, Margaret (MEd, University of Houston, 1976), Assistant Professor, Computer Information Systems.  
Brewerton, F. J. (DBA, Louisiana State University 1968), Professor, Management.  
Brough, Charles (MBA, Pan American University, 1983) Lecturer, Computer Information Systems.  
Crews, R. Michael (PhD, Utah State University, 1982), Associate Professor, Computer Information Systems.  
Greene, Walter E. (PhD, PHR, University of Arkansas, 1976), Professor, Management.  
Hodges, DeWayne L. (PhD, University of Northern Colorado, 1984), Assistant Professor, Statistics.  
Hwang, Mark I. (PhD, University of North Texas, 1990), Assistant Professor, Computer Information Systems/Management Information Systems.  
Lee, Daniel (PhD, University of Florida, 1977), Professor, Director of Management Information Systems.  
Nasif, Ercan (PhD, North Texas State University, 1988), Assistant Professor, Management.

Prasad, Sameer (PhD, Kent State University, 1990), Assistant Professor, Production Management.  
 Rydl, Lester M. (PhD, Texas A&M University, 1978; C.D.P.) Associate Professor, Statistics, Computer Information Systems.  
 Smith, James (MS, University of Southern California, 1981), Lecturer, Computer Information Systems.  
 Strong, Charles (PhD, University of Alabama, 1973), Professor, Management.  
 Thorn, Ron (PhD, Texas Tech University, 1973) Associate Professor, Management, Computer Information Systems.  
 Vincent, Vern C. (PhD, University of Northern Colorado, 1972) Professor, Director of Graduate Program for the School of Business Administration, Research, Statistical Methodology.  
 Wilson, James M. (PhD, University of Arkansas, 1971), Associate Professor, Management.

## Curriculum Information

This department offers students two majors: management and computer information systems. In addition to completing the University College/General Education courses as outlined in the The University of Texas-Pan American catalog, the student will be responsible for fulfilling the requirements of the selected major.

A minor in Computer Information Systems is available to students from all areas of the University and is designed to prepare the student for entry-level positions in computer processing.

The coursework leading to the BBA degree is classified as follows:

A. General Education and Business Foundation Courses	76 hours
B. Business Core Courses	33 hours
C. Specialization (Major) Courses	24 hours
Total Degree Requirements	133 hours

*Degree applicability of coursework from business programs which are not accredited by the American Assembly of Collegiate Schools of Business (AACSB) must be determined through appropriate validation procedures and/or examination.* Final approval of non-AACSB accredited coursework will be by the Department Chair or Dean of the School of Business. Students must have 60 hours of coursework before taking junior/senior level courses in business.

**NOTE:** Students *must* file a degree plan at the beginning of their junior year before their application for graduation will be processed. Each student shall have full responsibility for meeting this requirement. This responsibility does not lie with the department.

<i>General Education and Business Foundation Courses</i>	Hours
English 1301, 1302 plus 6 hours of sophomore literature	12
GENB 1331 (Not required of students who score 19 or more on ACT composite)	3
CIS 1301	3
ECO 2353, 2354	6
ACC 2421 and 2329	7
Foreign Language - 6 hours in same language	6
COMM 1303	3
MATH 1321, 1322 or MATH 1340, 1322	6
Natural Science - 8 hours in same discipline	8
History 2313 or 2333 plus 2314	6
POLS 2313, 2314	6
KIN - 4 hours - any 2 activity courses	4
3 hours from: ANTH 1323, 2323, 2353, PSY 1313, 1323, SOC 1313, 1323, 2333	3
3 hours from: ART 1301, 3381, COMM 2312, MUSIC 1301, 1302, 2307, 3311, PHIL 1310, 1320, 2330	3
TOTAL	76

<i>Business Core Courses</i>	Hours
FINA 3383	3
GENB 3335, 3337, 3300	12
MANA 2341, 3342, 3361, 3390*, 4363, 4369	15
MARK 3371	3
TOTAL	33

\*CIS majors are required to take a CIS elective instead of MANA 3390.

Prerequisite for all upper level business courses (numbered 3000 or higher):

1. Completed 60 credit hours.
2. Completed CIS 1301, ECO 2353 and 2354, ACC 2421 and ACC 2329 (or their equivalents). In these five courses (or their equivalents), the student must have a "C" or better in each course or must have a 2.25 GPA in the five courses. *This five-course requirement does not apply to graduate students, special students or non-business majors.*

**Specialization (Major) Courses: Management/CIS**

In addition to the University College, General Education Program requirements, the Business Foundation Courses and the Common Body of Knowledge Courses, Management and Computer Information Systems majors must comply with the following:

<b>Major in Management</b>	Hours
General Education, Business Foundation, Common Body of Knowledge Courses	109
Management Specialization Course	12
MANA 3332 Human Relations in Management	
MANA 3362 Personnel Management	
MANA 4364 Societal Problems in Business	
CIS Elective above CIS 1301	
<i>Management Electives - Select 12 hours from:</i>	12
MANA 4300 Topics	
MANA 4361 Human Behavior in Organization	
MANA 3365 Wage and Salary Administration	
MANA 3364 Organizational Theory	
MANA 4366 Small Business Management	
MANA 4368 Industrial Relations	
MANA 4399 Business Practicum	
ECO 3351 Macroeconomic Theory	
<b>Total Requirements</b>	<b>133 hours</b>

<b>Major in Computer Information Systems</b>	Hours
General Education, Business Foundation, and Business Core Courses	106
Computer Information Systems Specialization Courses:	27
CIS 2310 COBOL Programming	
CIS 2311 Advanced Programming Techniques	
CIS 2312 Microcomputer Concepts with Business Applications	
CIS 2308 Introduction to Program Design and Development	
CIS 3335 Data Base Management Systems	
CIS 3336 Systems Analysis	
CIS 4333 Information Systems	
CIS Electives (6 semester hours, 3 hours of which must be advanced)	
<b>Total Requirements</b>	<b>133 hours</b>

<b>Minor in Computer Information Systems</b>	Hours
ACC 2421 Introduction to Finance Accounting	
MANA 3361 Principles of Management	
CIS 2308 Structured Programming Concepts	
CIS 2310 COBOL Programming	
CIS Electives (6 semester hours) at 3000 or 4000 level	
<b>Total Minor Requirements</b>	<b>19 hours</b>

**Teacher Certification in Business Administration**

All majors in the School of Business Administration may obtain certification to teach in Texas secondary schools by completing the following:

1. Any major in the School of Business Administration
2. AIS 2301 Advanced Information Processing

3. GENB 3315 Seminar in Understanding Business Subjects
4. AIS 1306 Intermediate Shorthand (Optional and required only if student desires certification in shorthand.)
5. The required hours in Education courses from the School of Education
6. Must have a 2.5 GPA in major field

**NOTE:** This is subject to change because of new state regulations. The Certification Office in the School of Education will have information concerning certification changes.

## Course Descriptions

### Administrative Information Systems

#### **AIS 1301 KEYBOARDING FOR INFORMATION PROCESSING**

(Texas Common Course Number is OFAD 1311.)

Offers basic instruction on keyboarding techniques suitable for operating electronic office equipment. Students have the opportunity to learn basic skills in various business applications such as business letters, manuscripts and tabulated formats through the use of word processing software. Input and retrieval of information quickly and efficiently will be emphasized. This replaces GENB 1301 and credit may not be obtained in both courses.

#### **AIS 1305 ELEMENTARY SHORTHAND**

(Texas Common Course Number is OFAD 1301.)

Fall, Spring, Summer

For students who desire a mastery of the principles of Gregg shorthand. The writing of shorthand, intensive vocabulary building, elementary dictation and transcription. May not be counted for major or minor credit in business administration. This replaces GENB 1305 and credit may not be obtained in both courses.

#### **AIS 1306 INTERMEDIATE SHORTHAND**

(Texas Common Course Number is OFAD 1302.)

Fall, Spring

A continuation of AIS 1305. Review of the principles of Gregg shorthand, vocabulary building, dictation and transcription. A student will have the opportunity to acquire a dictation speed of 70-90 words per minute by the end of this semester. For those in the secretarial sequence of Business Education, this course must be taken prior to student teaching. This replaces GENB 1306 and credit may not be obtained in both courses. *Prerequisites: AIS 1301 or equivalent and AIS 1305 or equivalent.*

#### **AIS 2301 ADVANCED INFORMATION PROCESSING**

Offers increasing skill development in keyboarding techniques utilizing various software packages on electronic office equipment. Emphasizes business document preparation, editing and proofreading. Other topics include distribution, telecommunications, networking and information storage and retrieval. *Prerequisite: AIS 1301, high school typewriting course, or consent of instructor.*

### Management

#### **MANA 2341 ELEMENTARY BUSINESS AND ECONOMIC STATISTICS**

Fall, Spring, Summer

An analysis of descriptive statistics and statistical inference. Topics include collection, organization and presentation of numerical data; central tendency, variation, skewness, probability, probability distribution, sampling distributions, estimation theory and hypothesis testing. Computer laboratory assignments covering the above topics will be assigned. *Prerequisite: MATH 1321 or 1340, CIS 1301.*

#### **MANA 3332 HUMAN RELATIONS IN MANAGEMENT**

Fall, Spring, Summer

The theory and application of behavioral sciences to the human element in organizations. Individual behavior and motivation, as well as small group interaction in organizations, is emphasized. The human resource is portrayed as a vital, complex factor in management. (Previously MANA 4332. A student cannot receive credit in both courses.) *Prerequisite: MANA 3361 or consent of department.*



**MANA 3342 INTERMEDIATE BUSINESS AND ECONOMIC STATISTICS**

Fall, Spring, Summer

A continuation of elementary statistics, including regression and correlation, index numbers, time series, nonparametric statistics and other decision-making tools. Computer laboratory assignments covering the above topics will be assigned.

*Prerequisite: MANA 2341, MATH 1322.*

**MANA 3361 PRINCIPLES OF MANAGEMENT AND ORGANIZATIONAL BEHAVIOR**

Fall, Spring, Summer

A study of the management functions of planning, organizing and controlling. Emphasis is placed on organizational theory and behavior to include culture and ethics.

**MANA 3362 PERSONNEL MANAGEMENT**

Fall, Spring, Summer

Current developments within the field of personnel administration. A study of concepts, principles, policies and organizational procedures utilized by business institutions in the management of personnel: selection, placement, compensation, morale, labor turnover, collective bargaining, employee service and supervisory activities. *Prerequisite: MANA 3361, or consent of department.*

**MANA 3364 ORGANIZATIONAL THEORY AND DESIGN**

Fall, Spring

A study of the theory and process of designing, utilizing and evaluating organizational structures. Includes designing and fitting jobs into the organizational structure and adapting the organizational design to the operational and environmental demands of the organization. *Prerequisite: MANA 3361.*

**MANA 3365 WAGE AND SALARY ADMINISTRATION**

Fall, Spring

Principles and practices of the determination of relative values for jobs and their application to basic wage and salary structure. The formulation in class of a job evaluation plan and wage structure. *Prerequisite: MANA 3361 and 3362 or consent of department.*

**MANA 3390 MANAGEMENT INFORMATION AND DECISION SUPPORT SYSTEMS**

Fall, Spring

A study of business information systems which includes the role, analysis, design, development and implementation of financial, technical and strategic information systems. These systems use computer hardware and software, decision models and data bases to provide managers with information used in the decision-making process. *Prerequisite: MANA 3361.*

**MANA 4300 TOPICS IN MANAGEMENT**

On Demand

A course of supervised independent study and research into management theory and practice. *Prerequisite: 9 semester hours of Management courses with at least a 3.0 GPA in these courses.*

**MANA 4361 HUMAN BEHAVIOR IN ORGANIZATIONS**

Fall, Spring

Study of management theory with emphasis on the investigation of individual and group behavior in organizations. *Prerequisite: MANA 3361 or consent of department.*

**MANA 4363 PRODUCTION MANAGEMENT**

Fall, Spring, Summer

The concept of the production function and its applicability to all types of business firms, problems which provide background for the integration of scientific decision processes relative to an analysis of production activities, and computer applications in the production/operations environment. *Prerequisite: MANA 3342, MANA 3361.*

**MANA 4364 SOCIETAL PROBLEMS IN BUSINESS**

Fall, Spring

The behavior and social responsibilities of business firms and other business institutions in modern society to include current cultural and ethical issues. *Prerequisite: MANA 3361.*

### **MANA 4366 SMALL BUSINESS MANAGEMENT**

Fall, Spring

A study of the special characteristics of small business. Emphasis will be placed on the selecting and starting of a small business and the essential function of management in the first years of operation. *Prerequisite: Senior standing in Business.*

### **MANA 4368 INDUSTRIAL RELATIONS**

Fall, Spring

An examination of current issues and problem areas facing management and unions in their relationship with employees, government and the community. Emphasis is placed on the role of union and management in the process, on the relationship of this process to contemporary labor legislation, contract negotiations and daily administration of company and union relations. *Prerequisite: MANA 3361 and MANA 3362 or consent of the department.*

### **MANA 4369 BUSINESS POLICY**

Fall, Spring, Summer

A broad course in business management designed to integrate earlier studies in business to include culture and ethics. Comprehensive case problems are studied, with student participation in decision making related to business operations under conditions of uncertainty. A computerized business simulation provides for decision-making under dynamic conditions. *Prerequisite: ACC 2329, MANA 3361, 4363; MARK 3371; FIN 3383.*

### **MANA 4399 BUSINESS PRACTICUM**

Fall, Spring

This course is an on-site evaluation of an operating business by a student or students serving in the role as a consultant or consulting team. Course emphasis will be directed toward an analysis of the basic business functions of accounting, finance, production, marketing, and management as they pertain to the successful operation of a business. *Prerequisite: Senior standing and consent of department.*

## **Computer Information Systems**

### **CIS 1301 COMPUTER INFORMATION SYSTEMS**

(Texas Common Course Number is COSC 1305.)

Fall, Spring, Summer

This course serves as an introduction to the primary components of a business computer system and to the primary application software packages used to increase productivity of business professionals. These topics will be reinforced with micro-computer laboratory exercises. *Prerequisite: MATH 1340 or MATH 1321 with a grade of "C" or better.*

### **CIS 2308 INTRODUCTION TO STRUCTURAL AND DEVELOPMENT PROGRAM DESIGN**

This course focuses on the phases of program design including problem clarification, design, coding, debugging, and documentation. Structural program design considerations will be stressed. *Prerequisites: Math 1321 or 1340 and computer literacy skills.*

### **CIS 2310 COBOL PROGRAMMING**

(Texas Common Course Number is COSC 1332.)

A programming course designed to emphasize structured programming concepts using COBOL programming language. Concepts will be reinforced with programming exercises which include COBOL syntax, data and file structures, input and output devices, and operating systems facilities for support of batch programs. *Prerequisite: CIS 2308 or PASCAL Programming.*

### **CIS 2311 ADVANCED PROGRAMMING TECHNIQUES**

This course is a continuation of CIS 2310 and is designed to thoroughly familiarize the student with advanced design techniques, binary table searches, variable length record techniques, and hashing. This course also includes an introduction to the basics of data structures needed for on-line retrieval which include: ordered lists, file structures, pointers and linkages, directories, memory management, and data access methods. *Prerequisite: CIS 2310.*

### **CIS 2312 MICROCOMPUTER SOFTWARE AND HARDWARE CONCEPTS WITH BUSINESS APPLICATIONS**

Fall, Spring

A survey of technical topics related to microcomputer systems with emphasis on the relationship between hardware architecture, systems software and application software. *Prerequisite: Computer literacy.*

### **CIS 2320 MEDIUM SIZE COMPUTER SYSTEMS AND RPG PROGRAMMING**

This course emphasizes the structured design and development of medium-sized business computer systems using RPGII programming language. Extensive experience with the solution of business problems will be gained with a report-generation language. *Prerequisite: CIS 2308 or equivalent.*

### **CIS 3335 DATABASE MANAGEMENT**

Spring

This course is an introduction of the foundations of database technology. Basic knowledge in data structures, normalization of data, and data modeling will be included. Relational, hierarchical, and network models will be covered. The student will be introduced to the rudiments of the construction of database schema via laboratory experiences stressing application development through advanced programming techniques and a database language. *Prerequisite: 6 hours of above computer literacy in CIS or CS courses and COBOL programming knowledge.*

### **CIS 3336 SYSTEMS ANALYSIS**

Fall

This course is concerned with the critical analysis of data processing systems and their redesign vis-a-vis business computer applications. *Prerequisite: 6 hours of CIS or CS (excluding CIS 1301 or CS 1300).*

### **CIS 3338 NETWORKING**

Spring

An introduction to the characteristics, feasibility and design of networks and distributed data processing. Focus is on the business and elementary technical aspects of distributed processing involving digital communication. The business aspects will include implementation strategies, security, control, and selection of distributed data processing. Elementary technical aspects will include data communication technology, hardware configuration and application software. *Prerequisite: Six hours of CIS or CS above computer literacy or consent of department chair.*

### **CIS 4308 INFORMATION RESOURCE MANAGEMENT**

Introduces the concept of resource management in information processing systems. The student is introduced to issues related to the management of an information system such as planning, organizing, controlling, evaluating, and staffing an Information Center. Societal and technological issues related to managing an Information Center are discussed. *Prerequisite: Principles of Management and 6 hours of CIS or CS above computer literacy.*

### **CIS 4333 INFORMATION SYSTEMS**

Spring

A practical course that applies previous courses of study in computer information systems to the design of information systems that are capable of handling ad-hoc reporting requests. *Prerequisite: CIS 3335, 3336.*

### **CIS 4340 TOPICS IN COMPUTER INFORMATION SYSTEMS**

Fall, Spring, Summer

Topics or problems in computer information systems, subject matter changes from semester to semester. May be repeated once for credit. (Previously CS 4340; maximum of 6 hours credit allowed.) *Prerequisite: Consent of department.*

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## **Department of Marketing, Finance and General Business**

*Dr. Edwin Maberly, Interim Chair*

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The department of Marketing, Finance and General Business houses three BBA degree programs and one minor program. The major programs are: Marketing, Finance, and International Business. A student may minor in Business Administration.

### **Full-time Faculty**

Assefa, Zewdineh (PhD, University of Illinois, 1980), Associate Professor, Finance.  
Ball, Donald A. (PhD, University of Florida, 1971), Professor, Marketing.

de los Santos, Gilberto (PhD, University of Texas at Austin, 1972), Professor, Marketing.  
 Espensen, Kelly (MBA, East Texas State University, 1984), Instructor, General Business.  
 Garcia, Rolando (JD, South Texas School of Law, 1991; CPA) Assistant Professor, Business Law.  
 Jarvis, Susan S. (JD, Tulane University School of Law, 1974) Associate Professor, Business Law.  
 Maberly, Edwin D. (PhD, Texas A&M University, 1978), Associate Professor, Finance.  
 Minor, Michael (PhD, Vanderbilt University, 1987), Associate Professor, Marketing.  
 Prock, Jerry D. (PhD, Arizona State University, 1970), Professor and Chair, Finance.  
 Sturges, David L. (PhD, University of North Texas, 1988) Associate Professor, Management Communications.  
 Thompson, William W. (PhD, University of Arkansas, 1974), Professor, Marketing.

### Curriculum in Marketing and Finance

The coursework leading to the B.B.A. degree is classified as follows:

A. General Education and Business Foundation Courses	76 hours
B. Business Core Courses	33 hours
C. Specialization (Major) Courses	24 hours
Total Degree Requirements	133 hours

Degree applicability of upper-division coursework from business programs that are not accredited by the American Assembly of Collegiate Schools of Business (AACSB) must be determined through appropriate validation procedures and/or examination. Final approval of non-AACSB accredited coursework will be by the Department Head or Dean of the Business School.

### General Education and Business Foundation

Course	Hours
English - 1301, 1302 plus 6 hours of sophomore literature	12
GENB 1331 (Not required of those who score 19 or more on ACT) or upper division business elective (for those scoring 19 or more on ACT)	3
CIS 1301	3
ECO 2353, 2354	6
ACC 2421, 2329	7
Foreign Languages – 6 hours in same language	6
COMM 1303	3
MATH 1321, 1322	6
Natural Science – 8 hours in same discipline	8
History 2313 or 2333 plus 2314	6
Political Science – POLS 2313, 2314	6
PE – 4 hours – Any 2 activity courses	4
3 hours from: ANTH 1323, 2323, 2353, PSY 1313, 1323, SOC 1313, 1323, 2333	3
3 hours from: ART 1301, 3381, COMM 2312, MUSIC 1301, 1302, 2307, 3311, PHIL 1310, 1320, 2330	3
Total	76

Prerequisite for all upper level business courses (numbered 3000 or higher):

1. Completed 60 credit hours.

2. Completed CIS 1301, ECO 2353 and 2354, ACC 2421 and ACC 2329 (or their equivalents). In these five courses (or their equivalents), the student must have a "C" or better in each course or must have a 2.25 GPA in the five courses. *This five-course requirement does not apply to graduate students, special students or non-business majors.*

### Business Core Courses

Course	Hours
FINA 3383	3
GENB 3335, 3337, 3330	9
MANA 2341, 3342, 3361, 3390, 4363, 4369	18
MARK 3371	3
Total	33

### Transfer Credit — Verification

Any upper division business course taken at a non-AACSB accredited school must be validated before it will be applied to satisfy graduation requirements for business degrees at UT Pan American.

Validation may be accomplished:

1. By taking a higher-level course in the same subject area and making a "C" or better,
2. By taking an exam designed to validate the coursework and making a satisfactory grade on the exam, or
3. By re-taking the course.

### Specialization (Major) Courses

In addition to the University College/General Education Program requirements, the business foundation courses and the business common body of knowledge, majors in the Department of Marketing, Finance and General Business must comply with the following requirements:

#### Major in Marketing

General Education, Business Foundation and Business Core Courses	109 hours
Marketing Specialization Courses Required	12 hours
MARK 3372 Consumer Behavior	
MARK 4373 Sales Management	
MARK 4377 Marketing Management	
MARK 4378 Marketing Research	
Advanced Professional Electives - Select 6 hours from 3000 & 4000 courses taught in the School of Business Administration (MANA 4399 recommended)	6 hours
Marketing Electives - Select 6 hours from:	6 hours
MARK 2373 Principles of Salesmanship	
MARK 3373 Industrial Marketing	
MARK 3375 Retailing	
MARK 4330 International Marketing	
MARK 4372 Promotions Management	
MARK 4379 Special Problems in Marketing	
GENB 3339 Consumer Law	
Total Requirements	133 hours

#### Major in Finance

General Education Foundation and Business Core Courses	109 hours
Finance Specialization Courses	15 hours
FINA 3381 Money and Banking	
FINA 3382 Investment Principles	
FINA 4381 International Finance	
FINA 4383 Advanced Managerial Finance	
ACC 3321 or ACC 3324	
9 hours of Finance electives	9 hours
Total Requirements	133 hours

MANA 4399 and/or an upper level Accounting course may be substituted for a Finance elective with consent of the adviser.

#### Major in International Business

General Education Foundation Business Core Courses	109 hours
International Business Specialization Courses	18 hours
INTB 3310 Entering into International Trade	
INTB 3340 Legal Considerations of International Business	
INTB 4364 Management Environment in International Business	
INTB 4365 International Competitiveness	
FINA 4381 International Finance	
MARK 4330 International Marketing	
ECO 3353 International Trade	
Electives (electives selected must be approved by the Chair)	3 hours
Total Requirements	133 hours

### Minor in Business Administration

ACC 2329	Managerial Accounting
ACC 2421	Principles of Accounting I
ECO 2353	Principles of Economics I
MANA 3361	Principles of Management
MARK 3371	Principles of Marketing
FINA 3383	Managerial Finance

Total Requirements

19 hours

### Course Descriptions

#### Finance

##### **FINA 1381 PERSONAL FINANCE**

(Texas Common Course Number BUSI 1307.)

Fall, Spring, Summer

Personal income, budgeting and consumer credit problems, development of plans for purchasing insurance, real estate and securities, taxation as it affects the individual's income, assets and estate are studied. (Previously BA 1381, may not be repeated for credit.)

##### **FINA 3381 MONEY AND BANKING**

Fall

The components, nature, functions, creation and destruction of money and credit; financial institutions and their functions; introduction to monetary theory and policy for the purpose of establishing the framework of the monetary economy. *Prerequisite: ECO 2354*

##### **FINA 3382 INVESTMENT PRINCIPLES**

On Demand

Analysis and valuation of investment securities of corporations and governmental agencies. The purchase and sale of securities through brokerage houses and investment banking firms are studied. (Previously BA 3382, may not be repeated for credit.)

##### **FINA 3383 MANAGERIAL FINANCE**

Fall, Spring, Summer

The finance function in the firm and the specific responsibilities of the firm's financial manager. Emphasis is on financial decisions using managerial information systems as an integrating force to deliver planned results. This includes, but is not limited to, decisions affecting the internal management of the firm and the acquisition of new assets and funds. *Prerequisite: One course in accounting. (It is recommended that students be currently enrolled in, or have already completed, the first statistics class.)*

##### **FINA 3384 FUNDAMENTALS OF REAL ESTATE**

Fall, Summer

Physical and economic characteristics of real estate, applicable law, taxation, appraisal, marketing and finance.

##### **FINA 3385 PRINCIPLES OF INSURANCE**

Spring

Identification and control of risks facing the individual and the business firm, and the use of insurance and other mechanisms in dealing with them. Risk analysis, loss prevention, personal and property insurance, insurance programs and estate plans.

##### **FINA 3386 FINANCIAL INSTITUTIONS AND MARKETS**

On Demand

The dynamics of financial markets and their interaction with suppliers of funds, particularly financial intermediaries. *Prerequisites: 6 semester hours each of accounting and economics, FINA 3381.*

##### **FINA 3387 REAL ESTATE FINANCE**

On Demand

An analysis of the nature and problems of developing the financing of real estate. Involved is a study of financial markets and instruments which are used to solve the financial needs of various real estate activities. *Prerequisite: FINA 3384 or consent of instructor.*

**FINA 3390 PUBLIC FINANCE**

On Demand

Public expenditures, their nature, changes and classifications, sources of public revenues, debt management, introduction of fiscal theory and policy. *Prerequisites: 6 semester hours each of accounting and economics.*

**FINA 4300 TOPICS IN FINANCE**

On Demand

A special topic will be selected by the instructor. Total course content and requirements will be established on an individual basis by the instructor. *Prerequisite: Consent of instructor and 12 hours of advanced courses in Finance.*

**FINA 4310 ESTATE PLANNING**

Study of advantages of estate planning and types of instruments involved (wills, gifts, trusts); analysis of tax consequences of various approaches of estate planning, state and federal laws applicable to estates. *Prerequisites: GENB 3337 and consent of instructor.*

**FINA 4381 INTERNATIONAL FINANCE**

On Demand

Application of finance principles in the international environment; including the nature of the balance of payment mechanism, the factors affecting the foreign exchange market; defensive techniques to protect the business against foreign exchange risk; and investing, financing, and working capital management within a multinational firm. *Prerequisites: 6 hours of Advanced Finance, FINA 3383.*

**FINA 4382 PORTFOLIO MANAGEMENT**

On Demand

Provides the theoretical framework, techniques and applications of investment management. Develops models for performance evaluation emphasizing optimum combination of risk and return. *Prerequisites: FINA 3382.*

**FINA 4383 ADVANCED MANAGERIAL FINANCE**

On Demand

Considers the commitment of funds to asset purchases and the measuring and influencing of cost of capital. Emphasizes the development of tools and techniques using quantitative methods for the analytical study of financial administration and applications in the major problem areas of corporate finance. *Prerequisite: FINA 3383.*

**FINA 4386 MANAGEMENT IN FINANCIAL INSTITUTIONS**

On Demand

An analysis of the policy and operating decisions needed by the management of financial institutions to maximize shareholder benefits. *Prerequisites: FINA 3381, 3386.*

**FINA 4389 COMMERCIAL BANKING**

On Demand

The principles and policies affecting the services, organization and management of funds in the commercial bank; policy formulation is emphasized; coordination with general economic and money market conditions is covered. Previously FINA 3389. (A student cannot receive credit in both courses.) *Prerequisite: FINA 3381 and 3386 or consent of instructor.*

### General Business

*NOTE: Typewriting (word processing), shorthand, and other office systems courses are now listed under AIS (Administrative Information Systems) in the Management and CIS Department.*

**GENB 1331 INTRODUCTION TO BUSINESS**

(Texas Common Course Number BUSI 1301.)

Fall, Spring, Summer

A survey of the field of business and industry in our economic system. Basic principles of business organization and the formation and operation of the several divisions of a business concern; finance, production, marketing and personnel. Designed to acquaint the beginning student with the problems, procedures and practices of modern business. Recommended only for freshmen and sophomores. (Students with a composite ACT of 19 or more are exempt from the Introduction to Business course and should take an upper-level business course in its place.)

**GENB 2335 FUNDAMENTALS OF BUSINESS COMMUNICATIONS**

On Demand

A thorough application of writing principles to the various types of business letters, including statements of policy, inter-office memos and procedural minutes, informal report writing and the practicing of dictation.

**GENB 2346 COOPERATIVE PROGRAMS IN BUSINESS ADMINISTRATION**

On Demand

A planned program of full-time work (minimum of one semester or two continuous five-week summer sessions) related to the student's major field. Credit will be determined by a satisfactory employer's evaluation, interviews between the student and a supervising professor, and a supervised written report by the student. This course counts only as elective hours, and may be repeated once for credit. Students enroll on a credit/no credit basis.

**GENB 3315 SEMINAR IN UNDERSTANDING BUSINESS SUBJECTS**

Fall

Examines theories related to the understanding of Business Topics in order to integrate business subjects into a comprehensive entity. Psychological aspects of psycho-motor, cognitive, and effective domains are investigated. Two independent, in-depth business projects are required. *Prerequisite: AIS 2301.*

**GENB 3330 INTERNATIONAL BUSINESS**

On Demand

Business concepts, analytical processes, and philosophical bases for international business operations. Emphasis is on environmental dynamics, multinational business organizations, cultural and economic constraints, unique international business practices, and international operations, strategy, and policy. (Was GENB 4330. A student may not receive credit for both.) *Prerequisite: MANA 3361, MARK 3371, FINA 3383.*

**GENB 3335 ORGANIZATIONAL COMMUNICATION**

Fall, Spring, Summer

A systems approach to information processing which concerns itself with the practical and psychological aspects of communication, formal and informal, in organizations. Inter- and intra-personal communication that is related to the various corporate cultures is stressed. Intercultural differences in various communication scenarios are also studied. *Prerequisite: Satisfaction of general requirements for freshman English.*

**GENB 3337 BUSINESS LAW I**

Fall, Spring

The study of the development and functioning of our legal environment. The development of case law and precedents; the application of procedural and substantive law pertaining to civil and penal matters and the study and analysis of cases and rules of law relating to basic business practices. Governmental regulations of business, property rights, and business ethics. Course also includes torts, contracts, commercial transactions, and agency. Relevant ethical considerations are included in each topic.

**GENB 3338 BUSINESS LAW II**

Fall, Spring

A continuation and expansion of the study of rules of law in a business society including sales, commercial paper and credit transactions with emphasis on the Uniform Commercial Code; business organizations; and government regulations, property, wills and trusts, consumer protection, bankruptcy. *Prerequisite: GENB 3337.*

**GENB 3339 CONSUMER LAW**

Study of federal and state consumer product laws with focus on both the consumers' rights and the responsibilities of the seller/manufacturer; regulation of advertising and marketing of consumer products; credit financing of consumer transactions. *Prerequisite: GENB 3337 or consent of instructor.*

**GENB 3340 REAL ESTATE LAW**

Study of laws and regulations affecting real estate ownership/use. Estates and interests in land; security devices for real estate creditors; earnest money contracts, land use contracts. *Prerequisite: GENB 3337 or consent of instructor.*

**GENB 3356 BUSINESS ENTERPRISE AND PUBLIC POLICY**

On Demand

The nature, scope and effect on the business community of governmental involvement and regulation in the functioning of the economy. Emphasis is on the impact of federal legislation as it pertains to antitrust enforcement and the maintenance of competition, the regulation of public utilities and inter-regional transport, agricultural adjustment, labor relations and public ownership. Designed to give a broad understanding of the many ways in which business and economic life are shaped and influenced by government.



## **GENB 4346 TOPICS IN GENERAL BUSINESS**

On Demand

Designed to give students professional experience in actual business situations or applied research into business and economic problems. This course does not count for the CO-OP program; see GENB 2346. *Prerequisite: Consent of instructor and 12 hours advanced Business Administration courses.*

## **International Business**

### **INTB 3310 ENTERING INTERNATIONAL TRADE**

Introduction to import and export procedures and processes. Sources of data and the acquisition of information concerning the country, its culture, business practices, and businesses. Accessing markets in, and sources of supply from, foreign countries. *Prerequisite: GENB 3330.*

### **INTB 3340 LEGAL CONSIDERATIONS OF INTERNATIONAL BUSINESS**

U.S. laws governing international business. The impact of foreign laws on business within the host country, including U.S. companies in that country. *Prerequisites: GENB 3337, GENB 3330.*

### **INTB 4364 MANAGEMENT ENVIRONMENT IN INTERNATIONAL BUSINESS**

Organizational planning, organizing, including staffing, communication, and controlling in an international environment. How these functions of management are affected by, and may need to be adapted for, the social/cultural, economic, legal, and political environments. The process of individual negotiation and the impact of culture and business practices on that process. Reference to selected cultures and practices to include Asia, Western Europe, and Latin America. *Prerequisites: MANA 3361, GENB 3330.*

### **INTB 4365 INTERNATIONAL COMPETITIVENESS**

International dimensions of competition for global markets, with emphasis on manufacturing, production, and operations management as tools of international competitive strategy. *Prerequisite: MANA 4363.*

### **INTB 4379 TOPICS IN INTERNATIONAL BUSINESS**

Special topics in international business as selected by the instructor. Additional topics to be added. Course can be repeated as topics change. *Prerequisite: GENB 3330.*

## **Marketing**

### **MARK 2373 PRINCIPLES OF SALESMANSHIP**

Fall, Spring

Modern salesmanship, the product, the buyer, planning the presentation, meeting the prospect, the interview, overcoming resistance, closing the sale, building good will. Practical applications of selling in the form of structured class participation.

### **MARK 3371 PRINCIPLES OF MARKETING**

Fall, Spring, Summer

The marketing structure as it operates in our economic system. With emphasis on improving the flow of goods and services from producer to consumer. Practical application of principles and techniques. Designed as a beginning course in marketing.

### **MARK 3372 CONSUMER BEHAVIOR**

Fall

An overall view of the basic perspectives of consumer behavior. An interdisciplinary approach is utilized by studying the fields of economics, psychology, sociology and anthropology as they relate to marketing. Emphasis is placed on the fundamental process of motivation, perception and learning, as well as analysis of individual predispositions and group influences in marketing. *Prerequisite: MARK 3371 or consent of instructor.*

### **MARK 3373 INDUSTRIAL MARKETING**

On Demand

A comprehensive study of marketing in other than the retail area. Topics include: wholesale institutions, their competitive positions and strategies; channels of distribution; physical distribution; marketing to industrial consumers and industrial buying behavior. Readings, cases and special projects. *Prerequisites: MARK 3371 or consent of the instructor.*

### **MARK 3375 RETAILING**

Fall, Summer

Principles and methods of modern retailing, emphasis on problems of store location and layout, buying, pricing, credit, stock control, personnel and sales promotion. Designed for students who wish to gain a general knowledge of the retail field as well as those specializing in marketing. *Prerequisite: MARK 3371 or consent of instructor.*

**MARK 4330 INTERNATIONAL MARKETING**

The development of the international marketing mix for the multinational organization, and an in-depth look at global versus domestic marketing management. *Prerequisites: MARK 3371, INTB 3310.*

**MARK 4372 PROMOTIONS MANAGEMENT**

On Demand

Management of the promotional mix. Analysis and application of advertising and sales promotion methods through mass communication and management of the sales force for both consumer and industrial goods. *Prerequisite: MARK 3371 or consent of instructor.*

**MARK 4373 SALES MANAGEMENT**

Decision-making of the sales manager and how it affects the sales force. Emphasis is placed on sales planning, staffing, training and directing of the sales force including sales force analysis and evaluation. *Prerequisite: MARK 3371.*

**MARK 4377 MARKETING MANAGEMENT**

Spring

Emphasis on acquiring a knowledge of various tools and models that may be useful in assisting the marketing manager in the decision-making process. All areas of marketing are discussed within the decision-making framework, with practical application of techniques emphasized. *Prerequisites: MARK 3371.*

**MARK 4378 MARKETING RESEARCH**

Fall, Spring

Quantitative research procedures and techniques used in business today. Problem definition, sources of research data, survey methods, questionnaire design and sampling techniques. Practical application of procedures and techniques is emphasized through class research projects. *Prerequisite: MANA 3342, MARK 3371.*

**MARK 4379 SPECIAL PROBLEMS IN MARKETING**

On Demand

In-depth study of specific problems in marketing. A weekly conference is scheduled with the supervising faculty member. *Prerequisite: 12 hours in marketing and consent of instructor.*

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**Mass Media**

See Department of Communication

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**Department of Mathematics and Computer Science**

*Dr. Joseph E. Chance, Chair*

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**Full-time Faculty**

Abraham, John P. (EdD, University of Houston), Associate Professor, Computer Science.

Alvarado, Jose F. (MEd, Texas A&M University, 1983), Lecturer, Curriculum and Instruction.

Arnold, Sharon T. (MA, North Texas State University, 1977), Lecturer, Mathematics, Computer Science.

Bernard, John E. (PhD, University of Texas at Austin, 1978), Associate Professor, Mathematics, Mathematics Education.

Brazier, Gerald (PhD, The Ohio State University, 1974), Associate Professor, Mathematics Education.

Brazier, Pearl W. (MS, Virginia Polytechnic Institute and State University, 1981), Assistant Professor, Computer Science.

Chance, Joseph E. (PhD, University of Texas at Austin, 1971), Professor, Combinatorics, Mathematical Modeling.

Ebaseh-Onofa, Ben O. (PhD, Texas A&M University, 1988), Assistant Professor, Statistics.

Egle, David L. (MS, Texas A&M University, 1977), Lecturer, Approximation Theory, Numerical Analysis, Computer Science.

Fatehi, Mohammed (MS, New Mexico State University, 1986), Lecturer, Linear Algebra, Statistics.

Fowler, Richard H. (PhD, University of Houston, 1980), Assistant Professor, Interactive Systems, Artificial Intelligence.

Fowler, Wendy A.L. (PhD, The Ohio State University, 1983), Lecturer, Databases, Information Retrieval, Artificial Intelligence.

Fox, Richard (PhD, The Ohio State University, 1992), Assistant Professor, Computer Science Artificial Intelligence.

Gilpin, Jerry M. (MS, Syracuse University, 1966), Lecturer, Administrative Engineering.

Gonzalez, Roberto (MS, Pan American University, 1981), Lecturer, Mathematics.

Hinthorn, Richard W. (MS, Pittsburg State University), Lecturer, Mathematics.

Jabs, David (MS, Texas A&I University, 1991), Lecturer, Operations Research.

Knobel, Roger (PhD, Rensselaer Polytechnic Institute, 1991), Assistant Professor, Differential Equations, Applied Mathematics.

Martinez, Guillermo (MS, West Virginia University, 1979), Lecturer, Applied Mathematics.

Miller, Vincent (MS, University of North Texas, 1992), Lecturer, Analysis.

Necochea, Alejandro, (PhD, University of Massachusetts at Amherst, 1984), Associate Professor, Transformation Groups, Algebraic Topology.

Neelley, Ben (MS, Texas Tech University, 1992), Lecturer, Applied Mathematics.

Paredes, Miguel (PhD, University of Utah, 1985), Associate Professor, Mathematical Economics and Mathematical Modeling.

Pontius, Paul (MA, University of Illinois, 1965), Assistant Professor, Mathematics Education.

Poorkarimi, Hushang, (PhD, University of Texas at Austin, 1985) Assistant Professor), Differential Equations, Applied Mathematics.

Ramirez, Olga M. (PhD, Texas A&M University, 1985), Associate Professor), Mathematics Education.

Schaefer, Sister M.G. (PhD, University of Texas at Austin, 1967), Professor Emeritus, Mathematics Education.

Sifuentez, Cristela (MEd, Pan American University, 1980), Lecturer, Mathematics Education.

Skow, Donald P. (MS, East Texas State University, 1971), Senior Lecturer, Mathematics.

Smith, Cynthia (MA, University of North Texas, 1992), Lecturer, Algebra.

Taube, Silvia R. (EdD, State University of New York at Albany, 1992), Lecturer, Mathematics Education.

Taylor, Monty B. (PhD, University of Houston, 1988), Assistant Professor, Commutative Algebra, Multiplicative Lattices.

Torres, J. Rene (MS, Texas A&I University, 1972), Lecturer, Mathematics Education.

Venkatachalam, Suthanthiram (MS, Jackson State University, 1985), Lecturer, Programming Languages, Databases.

Watkins, William (PhD, University of Wyoming, 1980), Professor, Topology, Semigroups, Microcomputers.

Wiener, Bella (MS, Vitebsk State University, USSR, 1968), Senior Lecturer, Mathematics Education, European Methods.

Wiener, Joseph (PhD, University of Leningrad, 1964), Professor, Differential and Integral Equations, Mathematical Analysis.

The Department of Mathematics and Computer Science offers majors in mathematics and computer science, and minors in mathematics, elementary mathematics, computer science and statistics. In addition, it offers courses for students seeking a second teaching field for teacher certification in mathematics or computer information systems.

Three distinct plans are available for the mathematics major: *Plan I*, a conventional major in mathematics without teacher certification, *Plan II*, a major in applied mathematics with a minor in statistics, and *Plan III*, a major in mathematics with teacher certification for prospective secondary teachers. Each major must complete the requirements of one of these plans.

An undergraduate specializing in mathematics begins with a study of calculus. Each of the three plans available for a major in mathematics requires coursework in calculus, computer science, linear algebra and statistics. In addition, mathematics majors have options available for elective coursework both in and out of the department. Mathematics majors should work closely with their departmental adviser in order to choose these electives wisely. The minor in applied statistics is available for students in mathematics and science as well as for students in other disciplines needing statistics as a tool. Coursework in statistics using advanced mathematics also is available.

Computer science is the study of the structure, function, and application of computers and is central to the rapidly expanding use of information technology. Computers have traditionally been used in business, engineering, and scientific applications, and now, with lower prices for hardware and better software, applications are found in almost all human activities from art to zoology. Presently, employment opportunities are excellent for those broadly trained in computer science. The computer science major is designed to provide the student with marketable expertise in computer science and/or to prepare the student to pursue graduate study in computer science. The computer science major can be completed with or without teacher certification. Both a 36-hour Option I plan and a 24-hour Option II plan are offered for secondary certification in computer information systems. A 9-hour endorsement in Information Processing Technologies is offered to prepare teachers of the computer literacy course in junior high school.

## Degree Requirements

### Major in Mathematics

#### *Plan I: Major in Mathematics*

Students wishing to major in mathematics must complete the following as specified below: A. University College, General Education, and Special Requirements and B. Mathematics requirements.

#### *A. University College, General Education, and Special Requirements*

	Hours
English – 6 semester hours of freshman English	6
English – 6 semester hours of sophomore literature	6
English 3333	3
Language other than English - 6 semester hours in same language	6
COMM 1303 recommended	3
PHIL 1320 recommended	3
Mathematics – MATH 1360 recommended beginning course	3
Natural Science – PHYS 1401, 1402 required. In addition, 8 semester hours chosen from the same discipline	16
Computer Literacy – CS 1380 or 2325 recommended	3
Kinesiology	4
HIST 2313 or 2333, 2314 (2387, 2388 Honors)	6
POLS 2313, 2314 (2387, 2388 Honors)	6
6 hours to be selected from two of the following four areas:	6
ANTH 1323, 2323, 2353	
ECO 1301, 2353	
PSY 1313, 1323 (1387, 1388 Honors)	
SOC 1313, 1323, 2333	

#### *B. Mathematics Requirements*

36 hours of mathematics are required of which 21 must be advanced; these must include:

- MATH 1360 Differential Calculus
- MATH 1370 Integral Calculus I
- MATH 2342 Integral Calculus II
- MATH 2345 Computational Linear Algebra (CS 1380 or 2325 prereq.)
- MATH 3347 Calculus III
- MATH 3337 Applied Statistics I
- MATH 3349 Differential Equations
- MATH 4351 Modern Algebra (grade of C or better)
- MATH 4357 Real Analysis (grade of C or better)

and 9 additional hours in mathematics, 6 of which must be advanced but other than MATH 3310, 3311, 3312, 3313, 3314, 3315, and 3319.

For majors and minors in mathematics, a grade of "C" or better is required for courses MATH 3304, 4351, 4357, and 4364 to count toward graduation. Students intending to work in applied mathematics should choose their advanced electives from MATH 3337, 3338, 3368, 3373, and 4379.

#### *Plan II: Major in Mathematics with a Minor in Statistics*

Students wishing to major in mathematics with a minor in statistics must complete the following as specified below:

A. University College, General Education, and Special Requirements and B. Mathematics and Statistics Requirements.

A. *University College, General Education, and Special Requirements*: Same as Plan I

B. *Mathematics and Statistics Requirements*: 45 semester hours of mathematics and statistics of which 30 must be advanced including:

- MATH 1360 Differential Calculus
- MATH 1370 Integral Calculus I

MATH 2342	Integral Calculus II
MATH 2345	Computational Linear Algebra (CS 1380 or 2325 prereq.)
MATH 3347	Calculus III
MATH 3349	Differential Equations
MATH 3368	Numerical Methods
MATH 4357	Real Analysis (grade of C or better)
STAT 2330	Survey of Elementary Statistics
STAT 3337	Applied Statistics I

and 9 additional hours in mathematics, 6 of which must be advanced but other than MATH 3310, 3311, 3312, 3313, 3314, 3315, 3316, and 3319. When fulfilling a major or minor mathematics requirement, MATH 3304, 4351, 4357 and 4364 each requires a grade of C or better.

**Plan III: Major in Mathematics with Teacher Certification**

Students wishing to major in mathematics with secondary teacher certification must complete the following as specified below: A. University College, General Education, and Special Requirements, B. Mathematics requirements with a 2.25 GPA, and C. Professional Education requirements. The program described below is referred to as Option I and does not require a second teaching field; students are encouraged to seek a second field, however. The Option II certification program does not lead to a degree and is described in the section on minors below.

**A. University College, General Education, and Special Requirements**

	Hours
English – 6 semester hours of Freshman English	6
English – 6 semester hours of sophomore literature	6
Language other than English – 6 hours in same language	6
COMM 1303 or 1313 required	3
PHIL 1320 recommended	3
Mathematics – MATH 1356 recommended beginning course	3
Natural Science – 8 hours in same discipline	8
Computer Literacy – CS 1380 or 2325 recommended	3
Kinesiology	4
HIST 2313 or 2333, 2314 (2387, 2388 Honors)	6
POLS 2313, 2314 (2387, 2388 Honors)	6
6 hours to be selected from two of the following four areas:	6
ANTH 1323, 2323, 2353	
ECO 1301, 2353	
PSY 1313, 1323 (1387, 1388 Honors)	
SOC 1313, 1323, 2333	

**B. Mathematics Requirements**

36 hours of mathematics are required of which 21 must be advanced; these must include:

- MATH 1360 Differential Calculus
- MATH 1370 Integral Calculus I
- MATH 2342 Integral Calculus II
- MATH 2345 Computational Linear Algebra (CS 1380 or 2325 prereq.)
- MATH 3304 Geometric Structures (grade of C or better)
- MATH 3311 The Organizational Structures and Processes of Mathematics
- MATH 3314 Foundations of Euclidean Geometry
- MATH 4351 Modern Algebra (grade of C or better)

Select three hours from MATH 1356, 1357, or 2330 and nine advanced hours in mathematics other than MATH 3310, 3312, 3313, 3315, 3316, and 3319.

When fulfilling a major or minor mathematics requirement, MATH 3304, 4351, 4357, and 4364 each requires a grade of C or better.

**C. Professional Education Requirements**

18 semester hours of coursework: EDCI 4301, 4302, 4307, 4308, and 4641.

## Major in Computer Science

Students wishing to major in computer science must complete the following as specified below: A. University College, General Education, and Special Requirements, B. Computer Science Core, and C. Requirements for a Related Minor. It is recommended that students wishing to pursue graduate study in computer science complete the calculus sequence.

### A. University College, General Education, and Special Requirements

	Hours
English — 6 semester hours of Freshman English	6
English — 6 semester hours of sophomore literature	6
English 3333	3
Language other than English — 6 hours in same language	6
COMM 1303 recommended; COMM 1313 required for teacher certification	3
PHIL 1320 recommended	3
Mathematics - 9 hours minimum. Additional hours may be required, depending on choice of minor.	
a. 6 hours from MATH 1357, 1360, 1370 or from MATH 1321, 1322	6
b. MATH 3373 required	3
Natural Science — 8 hours in the same discipline	8
Physics recommended for Math minors	
Computer Literacy (CS 1380 or 2325 recommended)	3
Kinesiology	4
HIST 2313 or 2333, 2314 (2387, 2388 Honors)	6
POLS 2313, 2314 (2387, 2388 Honors)	6
6 hours to be selected from two of the following four areas:	6
ANTH 1323, 1324, 2323, 2342, 2353	
ECO 1301, 2353	
PSY 1313, 1323 (1387, 1388 Honors)	
SOC 1313, 1323, 2333	

### B. Computer Science Core Requirements

36 semester hours of which 21 must be advanced. Must include:

- CS 1380 Introduction to Computer Science (Pascal)
- CS 2380 Computer Science II (Advanced Pascal and Data Structures)
- CS 2333 Computer Organization and Machine Language
- CS 3333 Data Structures
- CS 3334 Systems Programming
- CS 3336 Organization of Programming Languages

and 18 additional hours of which 12 must be advanced selected from:

- CS 2320 Computer Programming in a Second Language
- CS 2325 Survey of Elementary Scientific Programming
- CIS 2310 Cobol Programming
- CS 3340 Software Design and Development
- CS 3350 Numerical Methods
- CS 3390 Practicum in Computer Science
- CS 4333 Database Design and Implementation
- CS 4334 Operating Systems
- CS 4335 Computer Architecture
- CS 4341 Topics in Computer Science
- CS 4350 Artificial Intelligence
- CS 4360 Computer Graphics and Interactive Systems
- CS 4390 Senior Project

*NOTE: Students completing Option I in teacher certification may substitute CS 1300, CS 3321 and/or CIS 3335 to meet the requirement of the 18 additional hours.*

### C. Recommended Related Minors

A minor approved by the department is recommended to be selected from one of the following (see appropriate department for required course list for each minor):

1. Mathematics (Department of Mathematics and Computer Science)
  - MATH 3349 or 3337 recommended
  - MATH 3368 or CS 3350 required

2. Statistics (Department of Mathematics and Computer Science)
3. Physics (Department of Physics and Geology)  
PHYS 3403 recommended.
4. Other Natural Sciences (Department of Biology or Chemistry)
5. Computer Information Systems (Department of Management and Computer Information Systems)

### **Teacher Certification in Computer Information Systems (Option I)**

Teacher certification in Computer Information Systems is required for teachers of Computer Science I and II in the secondary schools. This certification also allows teachers to teach the computer literacy course in the junior high school. In order for students to graduate with completion of the 36-hour Option I plan for secondary certification in Computer Information Systems, students must complete the computer science degree including the courses specified below:

36 semester hours in Computer Science of which 21 must be advanced.

Must include:

CS 1300, CS 1380, CS 2380, CS 2333, CS 3333, CS 3336  
and 3 hours selected from CS 2325, CS 2320, CIS 2310  
and 3 hours selected from CS 3334, and 12 hours selected from any upper  
division Computer Science course or CIS 3335

### **Professional Education Courses**

EDCI 4301, EDCI 4302, EDCI 4307, EDCI 4308, EDCI 4641

The Option I plan does not require a second teaching field; however, students are encouraged to seek a second field. The Option II certification in Computer Information Systems program is described in the section below under minors.

### **Minors in Computer Science, Mathematics and Statistics**

#### **Minor in Mathematics:**

24 semester hours of mathematics of which 9 must be advanced including MATH 1360, 1370, 2342, 2345\*, 3347 and 9 hours in mathematics above the level of MATH 1340, six hours of which must be advanced and not including MATH 3310, 3311, 3312, 3313, 3314, 3315, 3316 and 3319. When fulfilling a major or minor mathematics requirement, MATH 3304, 4351, 4357 and 4364 each requires a grade of C or better.

#### **Minor in Mathematics with Teacher Certification (Option II):**

24 semester hours in mathematics of which 12 must be advanced including MATH 1360, 1370, 2342, 2345\*, 3304, 3311, 3314, and 3 additional advanced hours in mathematics other than MATH 3310, 3312, 3313, 3315, 3316 and 3319.

#### **Mathematics Specialization for the Baccalaureate in Interdisciplinary Studies:**

27 semester hours of which 18 must be advanced including:

MATH 2306, 2307, 1340  
MATH 3310, 3312, 3313, 3315, 3316, and 3319

#### **Minor In Statistics Without A Mathematics Major:\*\***

22 semester hours of which 9 must be advanced including:

MATH 1360 and 2345  
STAT 2330, 3337 and 4336  
CS 2325

\*CS 1380 or CS 2325 prerequisite.

\*\*The minor in statistics is intended to be a service minor for those majoring in business, education, health fields, the social sciences or the natural sciences. Those wishing to incorporate a statistics minor with a mathematics major should consult Plan II listing requirements for a major in mathematics.

#### **Minor in Computer Science:**

18 semester hours of which 6 must be advanced

CS 1380, 2380, 2333, 3333, 3334  
3 additional hours from CIS 2310, CS 2320, CS 2325, CIS 3335, or any advanced CS course other than CS 3321.

### **Minor in Computer Science with Teacher Certification in Computer Information Systems (Option II):**

24 semester hours of which 12 must be advanced including:

CS 1380, 2380, 2333, 3333

3 hours from CS 1300, CS 2320, CS 2325, or CIS 2310.

9 hours from any advanced CS course.

### **Endorsement in Information Processing Technologies:**

1. Texas Teaching Certificate

2. 9 semester hours: ED 3350, CS 1380, CS 3321

## **Department of Mathematics Graduate Program**

The Department of Mathematics offers a 36-semester-hour non-thesis program leading to a Master of Science in Mathematics. This graduate program offers concentrations in mathematics teaching and mathematical sciences. An 18-semester-hour core is required of all students and consists of MATH 6331, 6332, 6352, 6353, 6365 and 6387. Those students selecting the mathematics teaching concentration need in addition MATH 6308, 6312, 6390 and 9 semester hours of approved electives which must include either MATH 6310 or MATH 6386. Students selecting the concentration in mathematical sciences need MATH 6360, 6361, 6362, 6366, 6370, 6388 and 6 semester hours of approved electives.

All students applying for admission to this program must meet all university requirements for entrance into graduate studies and hold a bachelor-level degree in mathematics.

## **Course Descriptions**

### **Computer Science**

#### **CS 1300 COMPUTERS AND SOCIETY**

A general computer literacy course to teach student awareness of the expanding role of computer technology, and to provide rudimentary knowledge and skills related to personal and social uses of computers. Topics include: Applications of computers, societal ethical issues involving computers, history, algorithms and elementary programming in a higher level language, usage of packaged software, hardware and software terminology. *Prerequisite: Composite ACT of 16 or above OR grade of "C" or better in ENG 1301 or MATH 1334 OR consent of instructor.*

#### **CS 1380 COMPUTER SCIENCE I**

An introduction to computer science and computer programming. The fundamentals of the Pascal programming language will be introduced. Methods of problem-solving, techniques of algorithmic development, and concepts of structured programming will be emphasized. *Prerequisite: Concurrent enrollment in or grade of "C" or better in MATH 1340 or 1321 and CS 1300 or equivalent experience.*

#### **CS 2320 COMPUTER PROGRAMMING IN A SECOND LANGUAGE**

Computer Programming in two high-level programming languages selected from languages such as C, Ada, Modula-2, or LISP. Designed for students who already know how to program in a high-level language. May be repeated once when languages change. *Prerequisite: CS 1380 or CS 2325 or consent of instructor*

#### **CS 2325 SURVEY OF ELEMENTARY SCIENTIFIC PROGRAMMING**

An introduction to computer programming and problem solving in the Fortran language with special emphasis on problems from science and mathematics. *Prerequisite: Concurrent enrollment in or grade of "C" or better in MATH 1340 or 1321*

#### **CS 2330 APPLICATIONS PROGRAMMING IN C AND C++**

Introduction to the programming language C and C++. Applications areas include file processing, list processing, and system calls. Unix, MS-DOS, and other operating system environments will be considered. *Prerequisite: CS 1380 or consent of instructor.*

#### **CS 2333 COMPUTER ORGANIZATION AND MACHINE LANGUAGE**

An introduction to computer organization, machine language programming and use of assembly language programming systems, Basic instructional sets, arithmetic and logical operations, indexing, indirect addressing, Macro definition and interpreters. Several computer programming projects are included. *Prerequisite: CS 2380 or consent of instructor.*



### **CS 2380 COMPUTER SCIENCE II**

A second programming course using Pascal to illustrate problem solving by structured design; to provide an introduction to elementary data structures including linked lists, stacks, queues, trees, and graphs; and to teach advanced programming techniques including recursion, sorting, and searching. *Prerequisites: CS 1380 with a grade of "C" or better.*

### **CS 3321 SURVEY OF COMPUTER CONCEPTS**

An introduction to the fundamentals of computers and information processing designed for students not majoring in Computer Science. Topics include computer applications and programming in a high level language. *Prerequisite: CS 1300 or consent of instructor.*

### **CS 3333 DATA STRUCTURES**

Data structures not covered in CS 2380. Topics include recursion, threaded trees, general tree, balanced trees, B trees, Huffman trees, graphs, analysis of sorting and searching algorithms, and storage management. *Prerequisites: CS 2380 and CS 2333.*

### **CS 3334 SYSTEMS PROGRAMMING**

An introduction to the organization and structure of the major hardware components of computers, the design of assemblers, linkers and loaders, and the fundamental concepts of operating systems. *Prerequisite: CS 2333.*

### **CS 3336 ORGANIZATION OF PROGRAMMING LANGUAGES**

Introduction to the specification analysis and implementation of programming languages, including the runtime behavior, desirable features, and limitations of various languages. *Prerequisite: CS 2380 and programming experience in two high-level languages.*

### **CS 3340 SOFTWARE DESIGN AND DEVELOPMENT**

A formal approach to the state-of-the-art techniques in software design and development. Provides the student with the opportunity to work on large projects in a group situation. *Prerequisite: CS 2380 and ENG 2309.*

### **CS 3350 NUMERICAL METHODS**

This course includes interpolation, numerical integration, numerical solutions to differential equations and a study of numerical solutions to systems of equations. This course is the same as MATH 3368. A student may not receive credit for both CS 3350 and MATH 3368. *Prerequisite: MATH 1370 and CS 2380 or CS 2325 or consent of the instructor.*

### **CS 3390 PRACTICUM IN COMPUTER SCIENCE**

Practical experience in management of computer laboratories and administration of computer systems. Students will assist in the operation of computing facilities. Course will include 1 hour seminar and 8 hours of practicum experience per week. May be taken once for credit toward Computer Science major or minor. May be repeated once. *Prerequisite: Junior standing and 12 hours of Computer Science*

### **CS 4333 DATABASE DESIGN AND IMPLEMENTATION**

Study of logical (hierarchical, network, relational) and physical (sequential, indexed, relative) organization of databases. Database management systems and their features, querying databases, distributed databases and data compression. *Prerequisite: CS 3333.*

### **CS 4334 OPERATING SYSTEMS**

Detailed study of operating system principles, including procedure activation, memory management, process management, resource allocation, and protection. *Prerequisite: CS 3333, 3334.*

### **CS 4335 COMPUTER ARCHITECTURE**

Computer organization and architecture of computer systems, basic logic design, coding, and micro-programming. *Prerequisite: CS 3334.*

### **CS 4341 TOPICS IN COMPUTER SCIENCE**

Topics or problems in computer science; subject matter changes from semester to semester. May be repeated for credit as topic varies. *Prerequisite: Consent of instructor.*

### **CS 4345 COMPUTER NETWORKS**

An introduction to data communication topics, including data transmission, encoding, data link control, switching, network topologies, protocols, internetworking and data security. Examples of existing networks and network architectures are studied. *Prerequisites: CS 4334 or CS 4335 or consent of instructor.*

### **CS 4350 ARTIFICIAL INTELLIGENCE**

Study of intelligent machines and machine learning. Includes problem-solving and heuristic search, natural language understanding, game playing, database and expert systems. Artificial Intelligence projects will be implemented using an AI language such as LISP, Prolog, C or Ada. *Prerequisites: CS 2380 and CS 3333.*

### **CS 4360 COMPUTER GRAPHICS AND INTERACTIVE SYSTEMS**

A study of the representation and display of graphical information including the design and analysis of interactive systems. *Prerequisite: CS 3334 or consent of instructor.*

### **CS 4390 SENIOR PROJECT**

Students will construct a software product, following it through the stages from initial specification to the final completed project including user manual. *Prerequisite: CS 3340 and consent of instructor.*

## **Mathematics**

### **MATH 1300 BASIC MATHEMATICS (ELEMENTARY ALGEBRA)**

A course designed for the student with a background in basic operations of whole numbers. Students have the opportunity to prepare for basic algebra or other mathematics coursework recommended in education, fine arts, the humanities or social science. Topics include basic arithmetical operations on fractions, signed numbers, and decimals, percentages, elementary geometry, measurements, introduction to algebra, linear equations, polynomials, special products and factors. This course may not be used to satisfy any general university graduation requirements. This course does not count toward a student's hours for graduation or in the determination of hours attempted or earned.

### **MATH 1321 BUSINESS ALGEBRA**

This course is designed for students who plan to major within the School of Business Administration. Topics include a review of basic algebra, quadratic functions and equations, series and sequences, math of finance applications, matrices and determinants, inequalities, linear programming, logarithms, and exponential functions. Use of electronic calculators and microcomputers is emphasized to perform numerical computations. *Prerequisite: MATH 1334 with a grade of "C" or better or satisfactory score on ACT or placement exam. Credit may not be received for MATH 1321 and 2316 or 1340.*

### **MATH 1322 BUSINESS CALCULUS**

Fall, Spring, Summer

This course is designed for students who plan to major within the School of Business Administration. Topics include differential calculus with business optimization applications, multivariable calculus including optimization techniques and applications, and an introduction to integral calculus. *Prerequisite: MATH 1321 or 2316 with a grade of "C" or better.*

### **MATH 1334 BASIC ALGEBRA (INTERMEDIATE ALGEBRA)**

A course in algebra designed to prepare the student for College Algebra. Topics include factors of polynomials, rational expressions, linear equations and graphs, elementary inequalities, radical expressions, an introduction to functions, systems of linear equations in two unknowns, quadratic equations and graphs, and applications. This course does not count toward a student's hours for graduation or in the determination of hours attempted or earned. *Prerequisite: MATH 1300 with a grade of "C" or better or satisfactory score on ACT or placement exam.*

### **MATH 1340 COLLEGE ALGEBRA**

Topics include a review of basic algebra, functions, quadratic and polynomial equations, systems of equations, inequalities, exponents and radicals, logarithms, complex numbers, and binomial theorem. *Prerequisite: MATH 1334 with a grade of "C" or better or satisfactory score on ACT or placement exam. This course replaces a grade received in MATH 1304, 2316 or 1321; however, one may receive credit only for one of MATH 1304, 1340, 2316 or 1321.*

### **MATH 1356 TRIGONOMETRY**

Topics include circular functions, identities, special angles, trigonometric equations and graphs. *Prerequisite: MATH 1340 or its equivalent with a grade of "C" or better or satisfactory score on ACT or placement exam. The course replaces MATH 1305; however, one may not receive credit for both MATH 1305 and MATH 1356.*

### **MATH 1357 PRECALCULUS MATHEMATICS**

Topics include transcendental functions, analytic geometry, conic sections, sequences and series. *Prerequisite: MATH 1356 with a grade of "C" or better or appropriate high school background and/or placement scores.*

**MATH 1360 DIFFERENTIAL CALCULUS**

Topics include limits, the derivative, extrema problems, curve sketching and applications. *Prerequisite: MATH 1357 with a grade of "C" or better or appropriate high school background and/or placement scores.*

**MATH 1370 INTEGRAL CALCULUS I**

Topics include antiderivatives, the definite integral, applications and exponential/logarithmic functions. *Prerequisite: MATH 1360 with a grade of "C" or better.*

**MATH 1387 ALGEBRA — HONORS STUDIES**

An enriched Algebra course for honors students with topics selected from those normally covered in College Algebra and Business Algebra. Special emphasis will be given to problem solving using computer software such as spreadsheets and computer Algebra systems. Credit may be received for only one of MATH 1340 and 1387. *Prerequisites: Admission to Honors Program or by permission, and MATH 1334 (or equivalent) or by permission.*

**MATH 1388 PRECALCULUS — HONORS STUDIES**

A Precalculus course designed for honors students interested in an accelerated introduction to the calculus sequence. This course will combine the most important parts of Trigonometry and Analytic Geometry and some essential topics of Differential Calculus. Credit may be received for only one of Math 1388 and either Math 1356 or MATH 1357. *Prerequisites: Admission to Honors Program or by permission, and Math 1340 (or equivalent) or permission.*

**MATH 2306 FOUNDATIONS OF MATHEMATICS I**

Students study the mathematical background for meaningful learning of number concepts, precise definitions, fundamental operations and problem-solving mathematics. The structure of the real number system is developed through the use of elementary logic and set theory. *Prerequisite: MATH 1340 with grade of "C" or better or satisfactory score on ACT or placement exam. This course replaces MATH 1314. A student may use MATH 2306 to replace a grade recorded in MATH 1314; however, one may not receive credit for both MATH 1314 and MATH 2306.*

**MATH 2307 FOUNDATIONS OF MATHEMATICS II**

This course is a continuation of MATH 2306. Topics include measurement, geometry, probability, statistics, elementary algebra and problem solving. *Prerequisite: MATH 1340 with a grade of "C" or better and a grade of "C" or better in MATH 2306. This course replaces MATH 1315. A student may use MATH 2307 to replace a grade received in MATH 1315, however, one may not receive credit for both MATH 1315 and MATH 2307.*

**MATH 2330 SURVEY OF ELEMENTARY STATISTICS**

This course is intended to provide the student with an elementary overview of the mathematical nature and uses of descriptive and inferential statistics. Topics include the definitions and fundamental theorems concerning measures of central tendency and dispersion, empirical and theoretical concepts of probability, the Central Limit Theorem, tests of hypotheses, interval estimation, chi-square tests, and regression and correlation. *Prerequisite: MATH 1334 with a grade of "C" or better or satisfactory score on ACT or placement exam. This course is the same as STAT 2330.*

**MATH 2342 INTEGRAL CALCULUS II**

Topics include methods of integration, indeterminate forms, improper integrals, sequence, and series. *Prerequisite: MATH 1370 with a grade of "C" or better.*

**MATH 2345 COMPUTATIONAL LINEAR ALGEBRA**

Topics include systems of linear equations, matrices and their algebraic properties, determinants, vectors, Euclidean N-space, and introduction to linear transformations and their matrix representations, and applications to business and the sciences. Emphasis is given to computer application of the above topics. *Prerequisite: CS 2325 or 1380 and MATH 1356. This course replaces MATH 2304. A student may use MATH 2345 to replace a grade received in MATH 2304; however, one may not receive credit for both MATH 2304 and MATH 2345.*

**MATH 3303 HISTORY OF MATHEMATICS**

This course is a study of the historical development of ideas that shape modern mathematical thinking. Although mathematicians are studied, emphasis is placed on mathematical development. *Prerequisite: MATH 2342.*

**MATH 3304 GEOMETRIC STRUCTURES**

This course studies one or many abstract geometric systems for the purpose of developing the students' understanding of and ability to create mathematical proofs. *Prerequisite: MATH 2342.*

**MATH 3310 FOUNDATIONS OF MATHEMATICAL PROBLEM SOLVING**

This course studies the cognitive and affective aspects of problem solving models, heuristics and strategies. Applications are drawn from many fields including but not limited to arithmetic, algebra, geometry and number theory. Discovering how to get the most out of one's mathematical knowledge and reasoning ability when transferring to new and/or difficult problematic situations is a fundamental aim of this course. *Prerequisite: MATH 2307 with a grade of "C" or better.*

**MATH 3311 THE ORGANIZATIONAL STRUCTURES AND PROCESSES OF MATHEMATICS**

This course examines the content and organization of logical, axiomatic, and algorithmic structures and the corresponding networks of concepts, principles and skills in the field of mathematics. It includes the analysis, justification and application of such mathematical processes as those for proofs, algorithms, problem-solving and applications of mathematics. This course aims at developing an advanced level of understanding of mathematics (content and method) up through integral calculus. *Prerequisite: MATH 1370.*

**MATH 3312 FOUNDATIONS OF MEASUREMENT AND INFORMAL GEOMETRY**

An in-depth study of measurement and informal geometry. Topics will include length, area, volume, the metric system, transformations, symmetry, congruency, similarity and coordinate systems. *Prerequisite: Grade of "C" or better in MATH 2307.*

**MATH 3313 FOUNDATIONS OF ALGEBRAIC STRUCTURES**

Algebraic concepts and structures will be examined with an emphasis on the group and field properties. *Prerequisite: Grade of "C" or better in MATH 2307.*

**MATH 3314 FOUNDATIONS OF EUCLIDEAN GEOMETRY**

This course presents an axiomatic development of Euclidean geometry. Topics include incidence, separation, betweenness, congruence, and parallelism. Within the particular development being presented, students will be expected to write their own proofs. *Prerequisite: MATH 1370.*

**MATH 3315 FOUNDATIONS OF PROBABILITY AND STATISTICS**

An in-depth study of probability and statistics. Topics include constructing and interpreting tables, graphs, and charts; descriptive measures; and elementary concepts of probability. *Prerequisite: MATH 2307 with a grade of "C" or better.*

**MATH 3316 FOUNDATIONS OF MATHEMATICS IN A COMPUTER ENVIRONMENT**

This course studies mathematics that can be developed and explored in an environment that includes the computer as the primary investigative tool. Topics include algebraic and geometric patterns, functions, iterative and recursive processes, and probabilistic and statistical models. *Prerequisite: MATH 2307 with a grade of "C" or better.*

**MATH 3319 MATHEMATICAL FOUNDATIONS OF STRUCTURES AND PROCESSES OF MATHEMATICS**

This course examines the content and organization of logical, axiomatic, and algorithmic structures and the corresponding networks of concepts, principles and skills in the field of mathematics. It includes the analysis, justification, and application of such mathematical processes as those for proofs, algorithms, problem solving, and applications of mathematics. This course aims at developing an advanced level of understanding of structures and processes of mathematics. *Prerequisite: MATH 2307 with a "C" or better.*

**MATH 3337 APPLIED STATISTICS I**

This course concerns itself with probabilistic models, regression analysis, nonparametric statistics and the basics of experimental design. Computer laboratory experience will be an important part of the class. *Prerequisite: Junior-level standing and either MATH 1370 or 1322. It is highly recommended that the student have some knowledge of statistics such as offered in MATH 2330. This course replaces MATH 3308 and is the same as STAT 3337. A student may use MATH 3337 to replace a grade received in MATH 3308, however, one may receive credit for at most one of MATH 3308, MATH 3337 or STAT 3337.*

**MATH 3338 APPLIED STATISTICS II**

This course is a continuation of MATH 3337 and includes special designs, analysis of variance and covariance, multiple comparisons and coding. *Prerequisite: MATH or STAT 3337. This course replaces MATH 3309 and is the same as STAT 3338. A student may use MATH 3338 to replace a grade received in MATH 3309; however, one may receive credit for at most one of MATH 3309, MATH 3338 or STAT 3338.*

**MATH 3347 CALCULUS III**

Topics include calculus of several variables: partial derivatives and multiple integrals. *Prerequisite: MATH 2342 with a grade of "C" or better.*

**MATH 3349 DIFFERENTIAL EQUATIONS**

This course contains a study of ordinary differential equations, and applications. *Prerequisite: MATH 3347. This course replaces MATH 3301. A student may use MATH 3349 to replace a grade received in MATH 3301; however, one may not receive credit for both MATH 3301 and MATH 3349.*

**MATH 3368 NUMERICAL METHODS**

This course includes interpolation, numerical integration, numerical solutions to differential equations, and a study of numerical solutions to systems of equations. *Prerequisites: MATH 1370 and CS 2380 or CS 2325 or consent of instructor.*

**MATH 3373 DISCRETE STRUCTURES**

This course is an introduction to discrete mathematics, studying enumeration, lattices, graphs and other topics in combinatorics. Particular emphasis is given to those structures applicable in Computer Science. (Formerly MATH 4373, may not be repeated for credit.) *Prerequisite: MATH 1340 and junior standing.*

**MATH 4302 THEORY OF NUMBERS**

This course includes a study of Peano's postulates, prime and composite integers, divisibility properties of the integers, congruence and diophantine equations.

**MATH 4351 MODERN ALGEBRA**

This course provides an introduction to algebraic structures. Topics to be taken from groups, rings and fields. *Prerequisite: MATH 2342. This course replaces MATH 4303. A student may use MATH 4351 to replace a grade received in MATH 4304; however, one may not receive credit for both MATH 4303 and MATH 4351.*

**MATH 4357 REAL ANALYSIS**

This course presents a rigorous introduction to the elements of real analysis. Topics include sequences, series, functions, limits, continuity, and derivatives. *Prerequisite: MATH 2342. This course replaces MATH 4315. A student may use MATH 4357 to replace a grade received in MATH 4315; however, one may not receive credit for both MATH 4315 and MATH 4357.*

**MATH 4360 TOPOLOGY**

This course presents a rigorous introduction to the elements of topology. Topics include a study of metric spaces, separation axioms, topological spaces, and topological properties of point sets and mappings. *Prerequisite: MATH 2342. This course replaces MATH 4312. A student may use MATH 4360 to replace a grade received in MATH 4312; however, one may not receive credit for both MATH 4312 and MATH 4360.*

**MATH 4364 SPECIAL PROBLEMS IN MATHEMATICS**

This course covers special undergraduate topics in mathematics which are not taught elsewhere in the department. May be repeated for credit. *Prerequisite: Consent of instructor.*

**MATH 4379 SPECIAL PROBLEMS IN APPLIED MATHEMATICS**

This course covers special undergraduate topics in applied mathematics which are not taught elsewhere in the department. May be repeated for credit when topic is different. *Prerequisite: Consent of instructor. This course replaces MATH 4311. A student may use MATH 4379 to replace a grade received in MATH 4311; however, one may not receive credit for both 4311 and MATH 4379.*

**MATH 6308 TEACHING OF ALGEBRAIC CONCEPTS**

This course examines issues, trends and research related to the teaching/learning of secondary school algebra. Topics include historical items with major influence in algebra and a study of relationships between abstract and school algebra. *Prerequisite: MATH 4351 or equivalent.*

**MATH 6310 TOPICS IN MATHEMATICS TEACHING**

This course examines issues, trends and research related to the teaching/learning of secondary school mathematics. Specific topics will vary, but could include: technology in the classroom, mathematical problem solving and the use of applications in the teaching of mathematics. *Prerequisite: Graduate standing in mathematics.*

**MATH 6312 TEACHING OF GEOMETRIC CONCEPTS**

This course examines issues, trends and research related to the teaching/learning of secondary school geometry. Topics include the historical significance of geometry, the relationship between modern geometry and the geometry taught in schools, and the van Hiele model of geometric understanding. *Prerequisite: MATH 3314 or consent of instructor.*

**MATH 6328 SPECIAL PROBLEMS IN TEACHING MATHEMATICS**

A critical analysis of issues, trends and historical developments in elementary and/or secondary Mathematics teaching with emphasis on the areas of curriculum and methodology. This course may be repeated for credit when topic changes.

**MATH 6331 ALGEBRA I**

This course is an extension of the undergraduate course in abstract algebra. Topics include polynomial rings over a field and finite field extensions. *Prerequisite: MATH 4351 or consent of instructor.*

**MATH 6332 ALGEBRA II**

The purpose of this course is to provide essential background in groups, rings, and fields train the student to recognize algebraic structures in various settings, and apply the tools and techniques made available by algebraic structures. Topics include: groups, structure of groups, rings, modules, Galois theory, structure of fields, commutative rings and modules. *Prerequisite: MATH 4351 or consent of instructor.*

**MATH 6352 ANALYSIS I**

The purpose of this course is to provide the necessary elementary background for all branches of modern mathematics involving "analysis" and train the student in the use of the most fundamental mathematical tool of our time — the axiomatic method. Topics include: elements of the theory of sets, real numbers, metric spaces, normed spaces, Hilbert spaces, spaces of continuous functions, differential calculus, analytic functions, existence theorems, and elementary spectral theory. *Prerequisite: MATH 4357 or consent of instructor.*

**MATH 6353 ANALYSIS II**

This topic is an introduction to abstract real analysis using the topology of the line. Topics include convergence, differentiation and integration. *Prerequisite: MATH 6352.*

**MATH 6360 ORDINARY DIFFERENTIAL EQUATIONS**

This course examines existence and uniqueness of and methods for calculating solutions to systems of ordinary differential equations, the study of algebraic and qualitative properties of solutions, iterative methods for numerical solutions of ordinary differential equations, and an introduction to the finite element method. *Prerequisite: MATH 3349 or consent of instructor.*

**MATH 6361 PARTIAL DIFFERENTIAL EQUATIONS**

This course considers the existence, uniqueness, and approximation of solutions to linear and non-linear ordinary, partial and functional differential equations. It also considers the relationships of differential equations with functional analysis. Computer-related methods of approximation are also discussed. *Prerequisite: MATH 3349 or consent of instructor.*

**MATH 6362 FOURIER ANALYSIS**

The course includes trigonometric series and Fourier Series, Dirichlet Integral, convergence and summability of Fourier Series, uniform convergence and Gibbs Phenomena,  $L^2$  space, properties of Fourier Coefficients, Fourier Transform and applications, Laplace Transform and applications, distributions, Fourier Series of distributions, Fourier Transforms of generalized functions, orthogonal systems. *Prerequisite: MATH 6353 or consent of instructor.*

**MATH 6365 PROBABILITY AND STATISTICS**

Set theory and concept of probability, conditional probability, random variables, discrete and continuous probability distributions, distribution and expectations of random variables, moment generating functions, transformation of random variables, order statistics, central limit theorem and limiting distributions. *Prerequisite: MATH 3337 or consent of instructor.*

**MATH 6366 MATHEMATICAL STATISTICS**

Theory of estimation and hypothesis testing: point estimation and its properties, interval estimation, sufficient statistics, decision theory, most powerful tests, likelihood ratio tests, linear models and estimation by least squares. *Prerequisite: MATH 6365 or consent of instructor.*

**MATH 6370 TOPOLOGY**

This course is a foundation for the study of analysis, geometry and algebraic topology. Topics include: set theory and logic, topological spaces and continuous functions, connectedness and compactness, and countability and separation axioms. *Prerequisite: MATH 4360 or consent of instructor.*

### **MATH 6386 TRANSFORMATIONAL GEOMETRY**

This course will include transformational groups in geometry and their use in the coordinatization of projective and affine geometry. Also covered are distance geometry, convexity, inversive geometry, computational geometry and combinatorial geometry. *Prerequisite: MATH 2342, MATH 4351 and consent of instructor.*

### **MATH 6387 MATHEMATICAL MODELING**

This topic includes dynamic models, stable and unstable motion, stability of linear and nonlinear systems, Liapunov Functions, feedback, growth and decay, the Logistic Model, population models, cycles, bifurcation, catastrophe, biological and biomedical models, chaos, strange attractors, deterministic and random behavior. *Prerequisite: Consent of instructor.*

### **MATH 6388 DISCRETE MATHEMATICS**

This course is an introduction to modern finite mathematics. Topics include methods of enumeration, graphs, partially ordered sets, and an introduction to Polya's theory of enumeration. *Prerequisite: MATH 4351 or consent of instructor.*

### **MATH 6390 MATHEMATICS SEMINAR**

Introduction to the methods and tools of mathematical research. The work of the course consists in the solution by students of assigned problems in various fields of mathematics and presentation of these solutions in both written and oral form. *Prerequisite: Consent of the instructor.*

## **Statistics**

### **STAT 2330 SURVEY OF ELEMENTARY STATISTICS**

This course is intended to provide students with an elementary overview of the mathematical nature and uses of descriptive and inferential statistics. Topics include the definition and fundamental theorems concerning measures of central tendency and dispersion, empirical and theoretical concepts of probability, the Central Limit Theorem, tests of hypotheses, interval estimation, chi-square tests, and regression and correlation. This course is the same as MATH 2330. *Prerequisite: MATH 1334 with a grade of "C" or better or satisfactory score on ACT or placement exam.*

### **STAT 3337 APPLIED STATISTICS I**

This course concerns itself with probabilistic models, regression analysis, nonparametric statistics, and the bases of experimental design. Computer laboratory experience will be an important part of the course. This course is the same as MATH 3337. A student may not receive credit for both STAT 3337 or MATH 3337. *Prerequisite: Junior level standing, and either MATH 1365, 1370 or 1322. It is highly recommended that the student have some knowledge of statistics such as offered in STAT 2330.*

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## **Mexican-American Studies**

See Department of Modern Languages and Literatures

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## **Department of Military Science**

**Army Reserve Officers' Training Corps (ROTC)**

*Major Dale A. Lazo, Acting Chair*

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### **Full-time Faculty**

Lazo, Major Dale A. (MEd, Texas A&M University, 1984), Assistant Professor, Military Science.

Preston, Captain James R. (BA, San Diego State University, 1984), Assistant Professor, Military Science.

Ochoa, Armando, Master Sergeant, Detachment First Sergeant.

Wood, Venice D., Sergeant First Class, Senior Drill Instructor.

The Military Science Department offers a minor in Military Science and a commission as an officer in the U.S. Army through the Reserve Officer Training Corps (ROTC) program at the Edinburg campus. Commissions may be offered in the Active Army, Army Reserve or Army National Guard.

The departmental objective is to develop selected men and women with potential to serve as commissioned officers in

the Active Army, National Guard, or Army Reserve. The leadership and management experience gained through the Army Reserve Officers' Training Corps and service as a commissioned officer will benefit the student in civilian as well as in military science and national defense pursuits. Students in the program have the opportunity to:

1. Enhance leadership and managerial potential;
2. Attain basic understanding of military fundamentals and national security;
3. Attain clear understanding of the concept of military art and science;
4. Develop a strong sense of personal honor, integrity, and individual responsibility.

### **ROTC Faculty Advisory Committee**

The Reserve Officers' Training Corps (ROTC) Faculty Advisory Committee, composed of 14 faculty advisers from different departments, serves as liaison with the ROTC department, and helps provide guidance on career opportunities with the Army or Reserve/National Guard for students of other departments at The University of Texas-Pan American.

Advisers are:

- Dr. Carl R. Carlan — School Administration & Supervision
- Dr. Dean R. Canty — Music
- Dr. Samuel E. Giuoco — Physical Science
- Dr. Kathryn M. Lang — Continuing Education
- Wil Martin — Art
- James H. McKone — Sports Information Director
- Oscar Salinas — English
- Gwendolynne Skinner — Nursing Education
- Donald Skow — Math
- Dr. Mark Winkel — Psychology

### **Army Scholarship Program**

Any student who meets prerequisites may compete for nationally awarded U.S. Army scholarships that pay for tuition, books, fees and other purely educational costs and a tax-free monthly subsistence allowance for 10 months of each year the scholarship is in effect. A limited number of free rooms are available on campus with priority going to ROTC Scholarship winners.

### **Veteran's Assistance**

Veterans who enroll in upper-level Military Science receive a tax-free monthly subsistence allowance for 10 months each of the two years, in addition to benefits provided by the Veteran's Administration, Army Reserve or National Guard.

### **Simultaneous Membership Program (SMP)**

Eligible students are allowed to participate with Army Reserve or the National Guard combined with College ROTC. In addition to Reserve or National Guard pay, the student receives ROTC pay. In the SMP, the student's pay will be elevated to the rank of E-5 (Sergeant) and the student will fill the position of a junior leader in that unit. Upon completion of a baccalaureate degree and the ROTC program, the student may be commissioned in the Active Army, Army Reserve or National Guard in the rank of second lieutenant.

### **Departmental Activities**

The Department of Military Science sponsors several extracurricular activities such as the annual Military Ball, Dining-Out, JROTC Day, Field Training Exercises, and Guadalupe River canoe trip. Additional opportunities to participate in team events are available in Color Guard, Rifle Team, and Ranger Challenge.

### **Army Training**

Selected cadets enrolled in the course may be eligible to compete for attendance to either the Airborne, Air Assault, Northern Warfare, Mountain Warfare, and Cadet Troop Leadership Training. Selection is based upon motivation, physical condition, and performance in Military Science.

### **Minor in Military Science**

The Military Science Department offers a minor in Military Science and a commission as an officer in the Active Army, Army Reserve or Army National Guard through the Reserve Officers' Training Corps (ROTC) program at the Edinburg campus.

### **No Commitment or Obligation for Lower Level Courses**

Students need not seek a career in the U.S. Army to enroll in lower level courses such as Marksmanship and First Aid, Survival and Land Navigation Training, and Basic Leadership, which provide the opportunity to increase individual skills and knowledge in leadership and management techniques in and outside the classroom. Lower level courses also fulfill the physical education requirement for general education.



### **Requirements for Advanced Military Science Standing and Commissioning**

1. Complete four semesters of lower-level ROTC courses or have advanced credit as a Veteran, from USAR/ARNG Basic Training, ROTC Basic Camp, or JROTC credit and approval.
2. Maintain full-time student status.
3. Pass a military physical examination.
4. Pass the ROTC Physical Aptitude Examination.
5. Pass the Officer Selection Battery.
6. Maintain an overall grade point average of 2.0.
7. Sign an Advanced ROTC and Commissioning Agreement.
8. Successfully complete four semesters of Advanced ROTC courses.
9. Successfully complete ROTC Advanced Camp.
10. Successfully complete an undergraduate degree program.
11. Complete at least one Departmental approved Professional Military Education course from each of the areas listed: Written Communications Skills, Human Behavior, Computer Literacy, Mathematics and Military History.

### **Minor Requirements**

18 semester hours: ROTC 3202; plus 16 hours of advanced Military Science courses.

## **Course Descriptions**

### **Military Science**

#### **ROTC 1201 MARKSMANSHIP AND FIRST AID**

Studies in the fundamentals of rifle and pistol marksmanship and practical experience in marksmanship on an indoor range. Emphasis is placed on the study of weapons safety. The course also examines basic first aid procedures. Two hours of class lecture and a 75-minute leadership laboratory. An optional weekend field training exercise is offered.

#### **ROTC 1202 SURVIVAL AND LAND NAVIGATION TRAINING**

An introduction to Basic Military Science. Studies in basic military skills. Emphasis is placed on methods and techniques of survival and land navigation, but is also designed to enhance self-confidence and physical fitness through active participation in adventure training. Two hours of class time and a 75-minute leadership laboratory teach these principles. An optional weekend field training exercise is offered.

#### **ROTC 2201 BASIC LEADERSHIP AND ARMY ORGANIZATIONS**

An application of basic leadership principles. The course will provide instruction in Army organization, the role of the U.S. Army and Army communications skills such as public speaking and the Army writing program. Two hours of classroom lecture and a 75-minute leadership laboratory. Optional weekend field training exercises are offered.

#### **ROTC 2202 BASIC OPERATIONS AND TACTICS**

Basic personnel management and motivational techniques are studied through placement of students in positions of small unit leaders given assigned missions. Introduction to basic tactical mission applications and principles. Two hours of classroom lecture and a 75-minute leadership laboratory. Optional weekend training exercises are offered.

#### **ROTC 3201 BASIC ARMY PHYSICAL DEVELOPMENT**

An in-depth study of the Army's physical fitness program. From this curriculum a student can develop a physical fitness program that best suits one's ability or physical desire. One can learn to perform individual physical assessments. Other topics include: nutrition, stress management, mental fitness/performance enhancement and physical training. Three hours of class lecture, limited outdoor physical conditioning, and a 75-minute leadership laboratory.

#### **ROTC 3202 ADVANCED ARMY PHYSICAL DEVELOPMENT**

A practicum in physical development where a student applies the physical development skills learned in Basic Army Physical Development and applies them to a program that best suits the individual. The student will be tested in accordance to FM 21-20 and The Army Physical Fitness Test to determine one's ability and AR 600-9 in attainment of a physical goal. Three hours of outdoor physical conditioning and a 75-minute leadership laboratory.

#### **ROTC 3300 PROFESSIONAL MILITARY DEVELOPMENT**

Studies in advanced military knowledge course and Military History. Emphasis is placed on U.S. Army Professional Development and various other subjects required to meet Professional Military Educational requirements imposed by Cadet Command for commissioning into the U.S. Army. *Prerequisite: Consent of Department Chair required for admission under paragraph 8b.*

### **ROTC 3401 ADVANCED MILITARY LEADERSHIP**

This course introduces the student to the responsibilities, character, and uniqueness of the commissioned officer as a professional. Topics include the role of the small unit leader, radio communications, advanced military leadership, tactical operations, and oral communications. Two hours of classroom lecture and three hours of leadership laboratory. Weekend field training exercises are mandatory. *Prerequisite: Advanced ROTC standing.*

### **ROTC 3402 SMALL UNIT TACTICS**

Analysis of the leader's role in directing and coordinating the efforts of individuals and platoon size units in the execution of offensive and defensive tactical missions, make-up and preparation of the five paragraph field order, land navigation and patrolling. Two hours of classroom lecture and three hours of leadership laboratory. *Prerequisite: Advanced ROTC standing.*

### **ROTC 3604 INTERNSHIP IN MILITARY SCIENCE**

The purpose of the Advanced Camp is to train leadership and evaluate officer potential. Technical/tactical proficiency and leadership skills will be put to the test in a carefully planned and stressful training sequence. Light Infantry tactics are the individual training vehicle. *Prerequisite: ROTC 3402.*

### **ROTC 4401 STAFF MANAGEMENT AND RESPONSIBILITIES**

An examination of the garrison and administrative responsibilities of the commissioned officer. An in-depth analysis of staff procedures, the military writing program, advanced leadership assessment, and the decision-making process. Precommissioning actions will also be conducted. Two hours of class lecture and three hours of leadership laboratory. Weekend field training exercises are mandatory. *Prerequisite: Advanced standing and completion of ROTC 3401 and 3402.*

### **ROTC 4403 ADVANCED MILITARY SCIENCE**

This course includes the ethical and professional responsibilities of the commissioned officer and studies the Military Justice System as well as the Army training system and Customs and Traditions of the Army from the perspective of a newly commissioned second lieutenant. Two hours of class lecture and three hours of leadership laboratory. Weekend field training exercises. *Prerequisite: Advanced ROTC standing and completed ROTC 3401 and 3402.*

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## **Department of Modern Languages and Literatures**

*Dr. Lino Garcia, Jr., Chair*

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### **Full-time Faculty**

Behar, Stella (PhD, University of California at Los Angeles, 1991), Assistant Professor, French.

Browne, Peter E. (PhD, University of Nebraska, 1993), Assistant Professor, Spanish.

Contreras, Victoria\* (PhD, University of Texas at Austin, 1989), Assistant Professor, Spanish.

Dominguez, Sylvia M.\* (PhD, University of Arizona, 1971), Professor, Spanish.

Garcia, Lino\* (PhD, Tulane University, 1981), Professor and Chair, Spanish.

Heartfield, Gilbert\* (PhD, University of New Mexico, 1972), Associate Professor, Spanish.

Maloney, James C.\* (PhD, University of Arizona, 1973), Associate Professor, Spanish.

Mejias, Hugo\* (PhD, State University of New York at Buffalo, 1978), Associate Professor, Spanish.

Rea, Ramiro R. (MA, Sam Houston State University, 1969), Assistant Professor, Spanish.

Sanchez, Encarnacion (MA, Sam Houston State University, 1970), Assistant Professor, Spanish.

Vassberg, Liliane M. (PhD, University of Texas at Austin, 1989), Assistant Professor, French.

### **\*Graduate Faculty**

The Department of Modern Languages consists of the subject areas of Spanish, French, German and Japanese. A major is offered in Spanish. A minor is offered in Spanish and in French. Beginning courses are offered in German and Japanese.

Teacher certification plans in Spanish and French are available at both the elementary and secondary level. The depart-

ment also offers a graduate major program leading to a concentration in Spanish within the Master of Arts Degree.

## **Departmental Requirements**

Art Appreciation 1301 or Music Appreciation 2307 and COMM 1303 or 1313.

### **Major in Spanish (with certification)**

36 semester hours of Spanish of which 24 semester hours must be advanced; must include 1301, 1302, or 1387, 1388 or 1303, 1304; 2307, 2308; 3303 or 3304, 3306, 3330 or 4336; 4316; 6 hours from 3301, 3302, 3310, 3311; 6 hours from 3309, 3316, 3321, 4303, 4304, 4305, 4306, 4307, 4308, 4309, 4317, 4318, 4325, 4326, 4327, 4329, 4330, 4331, 4337, 4338.

### **Major in Spanish**

Same as above excluding Spanish 4316, which may be taken as an elective.

### **Minor in Spanish**

18 semester hours in Spanish of which 6 semester hours must be advanced.

### **Minor in Spanish (with certification)**

*Elementary Plan I:* 24 semester hours of Spanish of which 9 must be advanced; must include 1301 and 1302 or 1303 and 1304; 2307 and 2308; 3303 or 3304; 3306, 3330 or 4336.

*Elementary Plan II:* 24 semester hours of which 12 must be advanced; must include 1301 and 1302 or 1303 and 1304; 2307 and 2308; 3303 or 3304; 3306; 3330 or 4336; 4303.

*Secondary Plan I:* 24 semester hours of which 12 must be advanced; must include 1301 and 1302 or 1303 and 1304; 2307 and 2308; 3303 or 3304, 3306, 3330 or 4336, 4316.

### **Minor in French**

18 semester hours in French, of which 6 must be advanced.

### **Translator Program**

The department offers courses in translation leading to the Translator Certificate and to the Translator and Bilingual Administrator Certificate.

Requirements for the Translator Certificate:

1. Economics 2353.
2. 15 semester hours in translation courses: Spanish 3332, 3333, 4332 and 4334.

Requirements for the Translator and Bilingual Administrator Certificate:

1. Major in Spanish.
2. Minor in Business Administration.
3. Economics 2353.
4. Courses required are Spanish 3332, 3333, 4332 and 4334.

## **The Department of Modern Languages Graduate Program**

### **MA Degree in Spanish**

The Department of Modern Languages offers an MA degree in Spanish. Students enroll in thirty hours in Spanish as a concentration, and six hours in a minor.

### **Special Departmental Requirements**

In addition to the general admission requirements set forth elsewhere in this bulletin, the following specific requirements must be met:

1. Applicants who wish to specialize in Spanish must have completed at least 12 semester hours of Spanish at the advanced undergraduate level.
2. Students who do not specialize but wish to take graduate courses in Spanish must have linguistic ability equivalent to that attained on completion of the intermediate level in Spanish. Non-specialists who wish to enroll in literature in translation courses are exempted from the language ability requirement.

3. Specialists will choose courses in Spanish and in related areas through consultation with their adviser.

## Course Descriptions

### French

#### **FR 1321 BEGINNING FRENCH**

(Texas Common Course Number is FREN 1311.)

Fall, Spring

A study of the essentials of French grammar, pronunciation, elementary conversation and prose reading.

#### **FR 1322 BEGINNING FRENCH**

(Texas Common Course Number is FREN 1312.)

Fall, Spring

A continuation of French 1321. *Prerequisite: FR 1321.*

#### **FR 1323 FRENCH CONVERSATION**

Fall, Spring

Designed for students with an elementary knowledge of French who wish to strengthen their oral ability. Contemporary topics will be discussed. Active student participation is required. *Prerequisite: FR 1322.*

#### **FR 2321-2322 INTERMEDIATE FRENCH**

(Texas Common Course Numbers are FREN 2311 and FREN 2312, respectively.)

Grammar review, conversation and writing practice based on selected literary and cultural readings. An emphasis on usage of different modes and tenses, as well as complex syntax. *Prerequisite: FR 1322.*

#### **FR 3321 FRENCH COMPOSITION I**

Practice in writing expository, narrative and descriptive prose. *Prerequisite: French 2322 except for students who have participated in the Study Abroad program. They may register for FR 2321 and 3321 simultaneously.*

#### **FR 3322 FRENCH COMPOSITION II**

Practice in writing critical appreciations of selected literary works. *Prerequisite: FR 3321.*

#### **FR 3120 FRENCH PHONETICS**

Survey of the French sound system with intensive practice. A one-credit-hour lab course designed to improve pronunciation. *Prerequisite: FR 2322.*

#### **FR 4321 SURVEY OF FRENCH LITERATURE I**

Masterpieces of French Literature from the Middle Ages to the French Revolution. *Prerequisite: FR 1322.*

#### **FR 4322 SURVEY OF FRENCH LITERATURE II**

Masterpieces of French Literature from 1800 to the present. *Prerequisite: FR 3321.*

#### **FR 4323 FRENCH FOR THE PROFESSIONS**

Conversation and writing practice based on selected readings in different fields of the sciences and business. *Prerequisite: FR 3321.*

#### **FR 4339 SPECIAL TOPICS**

Special topics from the field of French language and literature. *Prerequisite: FR 2322.*

### German

#### **GERM 1331 BEGINNING GERMAN**

(Texas Common Course Number is GERM 1311.)

Fall

A study of the essentials of German grammar, pronunciation, elementary conversation, and prose reading.

**GERM 1332 BEGINNING GERMAN**

(Texas Common Course Number is GERM 1312.)

Spring

A continuation of German 1331. *Prerequisite: GERM 1331.*

**GERM 2331 INTERMEDIATE GERMAN**

Grammar review, conversation, composition and readings from modern classics. *Prerequisite: GERM 1332 or the equivalent.*

**GERM 2332 INTERMEDIATE GERMAN**

Continuation of German 2331. *Prerequisite: GERM 2331.*

**Japanese**

**JAPN 1351 BEGINNING JAPANESE**

An introductory course in Japanese designed to teach basic knowledge of the Japanese language, including speaking, writing, listening, and reading.

**JAPN 1352 BEGINNING JAPANESE**

A continuation of Japanese 1351. Designed to teach basic knowledge of the Japanese language, including speaking, writing, listening, and reading.

**JAPN 2351 INTERMEDIATE JAPANESE I**

The purpose of this course is to provide the students with a thorough understanding of Japanese. Grammar, use of expression, and vocabulary are learned through oral work, reading, and writing.

**JAPN 2352 INTERMEDIATE JAPANESE II.**

The purpose of this course is to help students become able to use Japanese with reasonable ease by the end of the course. Speaking, listening, reading, and writing skills are reinforced.

**Russian**

**RUSS 1341 BEGINNING RUSSIAN**

An introductory course designed to teach students the basic elements of the Russian language. Emphasis on speaking, comprehension, writing and reading.

**RUSS 1342 BEGINNING RUSSIAN**

A continuation of Russian 1341. *Prerequisite: RUSS 1341.*

**Spanish**

**SPAN 1301 BEGINNING SPANISH**

(Texas Common Course Number is SPAN 1313.)

Fall, Spring, Summer

A course designed to develop the ability to understand, speak, read and write the Spanish language. Open only to persons who are monolingual.

**SPAN 1302 BEGINNING SPANISH**

(Texas Common Course Number is SPAN 1314.)

Fall, Spring, Summer

A continuation of Spanish 1301. *Prerequisite: SPAN 1301.*

**SPAN 1303 BEGINNING SPANISH**

(Texas Common Course Number is SPAN 2313.)

Fall, Spring, Summer

A course designed to develop the ability to read and to write the Spanish language. For students who are bilingual.

**SPAN 1304 BEGINNING SPANISH**

(Texas Common Course Number is SPAN 2315.)

Fall, Spring, Summer

A continuation of Spanish 1303. *Prerequisite: Spanish 1303.*

**SPAN 1387 BEGINNING SPANISH – HONORS STUDIES**

A beginning Spanish course designed to meet the needs of Honors Students interested in learning to read and write Spanish fluently at an accelerated pace. Some readings and culture will be introduced. Open to students needing systematic introduction to the Spanish language. A student may receive credit in only one: SPAN 1301 or 1303 or 1387.

**SPAN 1388 BEGINNING SPANISH – HONORS STUDIES**

A beginning Spanish course designed to meet the needs of Honors Students interested in learning to read and write Spanish fluently at an accelerated pace. Some readings and culture will be introduced. Open to students needing systematic introduction to the Spanish language. A student may receive credit in only one: SPAN 1302 or 1304 or 1388.

**SPAN 2307 INTERMEDIATE SPANISH FOR NATIVE SPEAKERS**

(Texas Common Course Number is SPAN 2311.)

Fall, Spring, Summer

A comprehensive review of Spanish grammar with special emphasis on writing. *Prerequisite: SPAN 1304.*

**SPAN 2308 INTERMEDIATE SPANISH FOR NATIVE SPEAKERS**

(Texas Common Course Number is SPAN 2312.)

Fall, Spring, Summer

A continuation of Spanish 2307. *Prerequisite: SPAN 2307.*

**SPAN 3301 SPANISH LITERATURE (from 1100 to 1750)**

A survey of the literature of Spain from *El Cid* to the middle of the 18th Century. Given in Spanish. *Prerequisite: SPAN 2308.*

**SPAN 3302 SPANISH LITERATURE (1750 to the present)**

A survey of the literature of Spain from Romanticism to the Modern period. Given in Spanish. *Prerequisite: SPAN 2308.*

**SPAN 3303 ADVANCED SPANISH COMPOSITION**

Intensive training in Spanish composition. Given in Spanish. *Prerequisite: SPAN 2308.*

**SPAN 3304 ADVANCED SPANISH COMPOSITION**

Additional work in composition. Given in Spanish. *Prerequisite: SPAN 2308.*

**SPAN 3306 BASIC CONCEPTS OF SPANISH PHONETICS AND PHONOLOGY**

An analysis of the phonetic and phonological system of Spanish with special emphasis on the relationship between the phonetic system and writing. *Prerequisite: SPAN 2308.*

**SPAN 3309 TECHNIQUES OF LITERARY ANALYSIS**

A study and practical application of the fundamentals of literary criticism. Several different approaches to literary analysis will be presented in order to construct a solid basis for the interpretation of literature.

**SPAN 3310 MASTERPIECES OF SPANISH-AMERICAN LITERATURE I**

An investigation of the literary works of the principal narrators, poets and dramatists of Spanish America from the beginnings of Spanish colonialism to modernism. Analysis of form and content and study of the historical background and literary currents in each work. *Prerequisite: SPAN 2308.*

**SPAN 3311 MASTERPIECES OF SPANISH-AMERICAN LITERATURE II**

An investigation of the literary works of the principal narrators, poets and dramatists of Spanish America from modernism to the present. Analysis of form and content and study of the historical background and literary currents in each work. Given in Spanish. *Prerequisite: SPAN 2308.*

**SPAN 3316 THE MEXICAN NOVEL**

The study of the major novels of Mexico. Given in Spanish. *Prerequisite: SPAN 2308.*

**SPAN 3330 SPANISH GRAMMAR**

A study of grammatical concepts with concentration on basic sentence structure, the paragraph, principles of punctuation, and functional grammar. Course designed for Spanish majors and minors as well as those interested in bilingual endorsement. *Prerequisite: Spanish 2308 (Prerequisite for aspirants to bilingual/bicultural endorsement: SPAN 2308 and ENG 3319.)*

**SPAN 3332 INTRODUCTION TO SPANISH-ENGLISH TRANSLATION**

A basic orientation in the theory and practice of translating a text from Spanish to English, including consideration of both

cultural and morpho-syntactical problems. *Prerequisites: ENG 3330, SPAN 1301, 1302, or 1303, 1304; 2301, 2302, or 2307, 2308; 3303, 3304, 3306 and 3330.*

#### **SPAN 3333 INTRODUCTION TO ENGLISH-SPANISH TRANSLATION**

A basic orientation in the theory and practice of translating a text from English to Spanish, including consideration of both cultural and morpho-syntactical problems. *Prerequisites: ENG 3330, SPAN 1301, 1302, or 1303, 1304; 2301, 2302, or 2307, 2308; 3303, 3304, 3306, and 3330.*

#### **SPAN 3334 BUSINESS SPANISH**

Review of basic principles and Spanish nomenclature of political economy, accounting, marketing, management, and finance. Theory and practice of commercial and civil registers. Difference between U.S. and Latin American business and government practices. Correspondence and report writing. *Prerequisite: SPAN 2308.*

#### **SPAN 4303 SPANISH CIVILIZATION**

A survey course covering the entire range of Iberian history outlining the major differences between Spanish culture and the cultures of other Western nations. Given in Spanish. *Prerequisite: SPAN 2308.*

#### **SPAN 4304 SPANISH LYRIC POETRY**

A survey of lyric poetry from the beginning to the present. Given in Spanish. *Prerequisite: SPAN 2308.*

#### **SPAN 4305 CERVANTES**

A study of the principal works of Miguel de Cervantes with particular emphasis on the *Don Quixote*. Given in Spanish. *Prerequisite: SPAN 2308.*

#### **SPAN 4306 HISTORY OF THE SPANISH LANGUAGE**

A detailed study of the Spanish language from the beginning to the contemporary period. Historical aspects of each period will be discussed to relate the contributions of different people whose language contributed to the development of the Spanish language. *Prerequisite: SPAN 2308.*

#### **SPAN 4307 SPANISH-AMERICAN NOVEL**

Begins with a study of literary and historical influence in the 19th century Spanish American Gaucho and Costumbrista novels and those showing European influence: Guiraldes, Blest Gana, Gamboa. Examination of recent literary trends: Mallea, Sabato, Roa Bastos, Vargas Llosa. *Prerequisite: SPAN 2308.*

#### **SPAN 4308 MEDIEVAL SPANISH LITERATURE**

A study of the principal literary works of Spain from *El Cid* to the *Romancero*. Given in Spanish. *Prerequisite: SPAN 2308.*

#### **SPAN 4309 CONTEMPORARY SPANISH LITERATURE**

A study of the principal literary works of Spain from the Generation of 1898 to the present. Given in Spanish. *Prerequisite: SPAN 2308.*

#### **SPAN 4311 MEXICAN LITERATURE I**

A study of the principal works of Mexican literature beginning with the period of the Spanish conquest until 1850. *Prerequisite: SPAN 2308.*

#### **SPAN 4312 MEXICAN LITERATURE II**

A study of the principal works of Mexican literature beginning in 1850 to the present. The three main genres of poetry, prose, and drama will be investigated in this course. *Prerequisite: SPAN 2308.*

#### **SPAN 4316 PROBLEMS AND ISSUES RELATED TO LANGUAGE**

Concentrated study of language theory, language acquisition, functions and role of language in society, and current trends and problems related to the topic. *Prerequisite: SPAN 2308.*

#### **SPAN 4317 GOLDEN AGE PROSE**

A critical study of the most representative prose works of Golden Age Spain. Given in Spanish. *Prerequisite: SPAN 2308.*

#### **SPAN 4318 THEATER AND POETRY OF THE GOLDEN AGE**

Study of the principal dramatists and poets of the age such as Lope de Vega, Tirso de Molina, Juan Ruiz de Alarcon, Garcilaso de la Vega, Fernando de Herrera, Luis de Gongora, and others. *Prerequisite: SPAN 2308.*

**SPAN 4325 CARIBBEAN LITERATURE**

A critical review and analysis of the surge of Afro-Antillean influences in Caribbean literature with emphasis on the literary techniques and the cultural reflection in the literature. *Prerequisite: Spanish 2308.*

**SPAN 4326 CONTEMPORARY SPANISH AMERICAN LITERATURE: A NEW ERA**

An investigation of contemporary Spanish American literature through a four-genre study that will include discussions on the following topics: The quest for identity, the questions of communication and alienation and the problems of existential man in the universe. *Prerequisite: SPAN 2308.*

**SPAN 4329 MEXICO'S CONTEMPORARY LITERATURE**

An investigation of Mexico's latest literature taking into account the psychological effects stemming from the industrial surge, the problems of the migration of the poor, the rebirth of the malinchista spirit, the new identity and the erosion of old traditions in the last two decades. *Prerequisite: SPAN 2308.*

**SPAN 4330 THEORIES OF GRAMMAR, DIALECTS, AND LANGUAGE PERFORMANCE**

A survey of contrastive analysis of grammar, dialects, and language performance as they are applicable to the bilingual and/or second language learner. Designed for, but not limited to, prospective teachers of students with limited English proficiency and/or teachers of ESL students. *Prerequisite: SPAN 2308. Prerequisite for students in the Bilingual Program: ENG 3319, 3330, SPAN 3330.*

**SPAN 4331 PROBLEMS IN GRAMMAR, DIALECTS, AND LANGUAGE PERFORMANCE**

A study of the second language learner's transition from regional Spanish to standard English. Emphasis on the particular characteristics of the English and Spanish dialects of the region and the manner in which they interrelate. The course will treat theory already learned as well as that presented in the course in the light of practical methodological tools. *Prerequisite: SPAN 2308. Prerequisites for bilingual certification students: ENG 3319, 3330, SPAN 3330, ENG/SPAN 4330.*

**SPAN 4332 ENGLISH-SPANISH SPANISH-ENGLISH COMMERCIAL TRANSLATION**

Intensive practice in the translation of commercial, financial, and marketing texts, as well as shipping, insurance, and customs house documents. *Prerequisite: SPAN 2308.*

**SPAN 4334 ENGLISH-SPANISH SPANISH-ENGLISH LEGAL TRANSLATION**

Intensive practice in the translation of contracts and government regulations, as well as texts relating to both civil and criminal cases. *Prerequisite: SPAN 2308.*

**SPAN 4335 SPANISH-ENGLISH LEGAL TRANSLATION**

Intensive practice in the translation from Spanish to English of contracts and government regulations, as well as texts relating to both civil and criminal court cases and extracts from the civil registries of Hispanic countries. *Prerequisite: SPAN 2308.*

**SPAN 4336 GRAMMAR AND COMPOSITION**

The study of the Spanish language applicable to the concerns of secondary school classroom teachers and the acquisition of skills and knowledge essential to testing and teaching advanced grammar and composition are the goals of this course. *Prerequisite: SPAN 2308.*

**SPAN 4337 EIGHTEENTH CENTURY SPANISH LITERATURE**

A survey of the literature of Spain covering the neoclassic from Feijoo to Fernandez de Moratin. *Prerequisite: SPAN 2308.*

**SPAN 4338 NINETEENTH CENTURY SPANISH LITERATURE**

A survey of the literature of Spain covering the two main literary movements: Romanticism and Realism. *Prerequisite: SPAN 2308.*

**SPAN 4339 THE SPANISH-AMERICAN SHORT STORY**

A study of the evolution of this genre in Spanish-American literature. Themes, techniques and literary movements will be investigated. The writers studied in this course will include: Echeverria, Palma, Gutierrez Najera, Quiroga, Borges, Garcia Marquez, Fuentes, and others. *Prerequisite: SPAN 2308.*

**SPAN 4340 THE SPANISH-AMERICAN ESSAY**

A study of this genre in Spanish-American literature. Themes, content, style, and literary movements will be studied. The writers studied in this course will include: Andres Bello, Justo Sierra, Antonio Caso, Vasconcelos, Samuel Ramos, Alfonso Reyes, Altamirano, Octavio Paz, Leopoldo Zea, and others. *Prerequisite: SPAN 2308.*

**SPAN 6300 METHODS OF BIBLIOGRAPHY AND RESEARCH**

A detailed study of methods of bibliography and research.



**SPAN 6307 ADVANCED SPANISH GRAMMAR AND COMPOSITION FOR THE CLASSROOM TEACHER**  
An examination of the Spanish language concerns of public educators as applicable to the elementary classroom. Skills and knowledge in basic communication, its theoretical principles and the varieties of language function and style in the school and communities are elements of this study. A strong application to the Spanish of the bilingual classroom is stressed. Given in Spanish and English.

**SPAN 6313 HISTORY OF THE SPANISH LANGUAGE**  
A detailed study of the growth of the Spanish language from the beginning to the present. Given in Spanish. *Prerequisite: Graduate standing and 12 hours of advanced Spanish.*

**SPAN 6339 SPECIAL STUDIES IN SPANISH-AMERICAN LITERATURE**  
Special topics from the field of Spanish-American literature. This course may be taken three times as the topic varies. *Prerequisite: Graduate standing and 12 hours of advanced Spanish.*

**SPAN 6341 SPECIAL STUDIES IN SPANISH LITERATURE**  
Special topics from the field of Spanish literature. This course may be taken three times as the topic varies. *Prerequisite: Graduate standing and 12 hours of advanced Spanish.*

**SPAN 6344 PROBLEMS AND ISSUES RELATED TO LANGUAGE**  
An examination of Spanish historical linguistics, Hispanic phonology, Spanish-English contrastive analysis and Spanish dialectology. Selected topics on language psychology and acquisition will be discussed. *Prerequisite: Graduate standing and 12 hours of advanced Spanish.*

**SPAN 6346 SPECIAL STUDIES IN SPANISH CIVILIZATION**  
An examination of the culture and lifestyle of the Spanish people with emphasis on the historical intellectual, artistic and social development of contemporary Spain. Readings, discussions, audio-visual materials will be presented and viewed. *Prerequisite: Graduate standing and 12 hours of Advanced Spanish.*

**SPAN 6347 SPECIAL STUDIES IN GRAMMAR AND COMPOSITION**  
An intensive study of Spanish grammar with special work on problem areas such as mood, syntax, orthography and punctuation. This course will also offer the opportunity of improving Spanish writing skills through practice; of developing an awareness of style and of making the student conscious of the differences between the written and spoken language. *Prerequisite: Graduate standing and 12 hours of advanced Spanish.*

**SPAN 6350 SPECIAL TOPICS IN SPANISH LINGUISTICS**  
Special topics oriented to the field of Spanish linguistics (Applied Linguistics, Sociolinguistics, Psycholinguistics).

**SPAN 7300 THESIS**

**SPAN 7301 THESIS**

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## MEXICAN-AMERICAN STUDIES PROGRAM

*Dr. Lino Garcia, Jr., Director*

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### Major in Mexican-American Heritage

The BA degree in Mexican-American Heritage is an interdisciplinary program taught by the faculty of the departments of History, Psychology and Anthropology, Sociology and Modern Languages. The program is designed as a broad field major.

#### Major Requirements:

History 2363 Mexican-American Heritage

*Spanish required courses: 18 semester hours*

SPAN 2307, 2308 Intermediate Spanish (or equivalent courses)

SPAN 3303 Spanish Composition

SPAN 3330 Spanish Grammar  
SPAN 3306 Basic Concepts of Spanish Phonetics and Phonology  
SPAN 4316 Problems and Issues Related to Language

*History required courses: 18 semester hours*

HIST 1333 or 1334 Civilization Through the Centuries (or equivalent)

HIST 2333 A General Survey of the History of Texas

*Choose 2 from these Latin American courses:*

HIST 3333 Colonial Latin America

HIST 4345 Mexico's First Century

HIST 4353 History of Mexican Culture

HIST 4354 Contemporary Mexico

*Choose 1 from these American History courses:*

HIST 4322 The Spanish Southwest To 1821

HIST 4325 The American Southwest After 1821

*Choose 1 from these European History courses:*

HIST 3341 History of England I, to 1686

HIST 3342 History of England II, After 1686

HIST 4370 The Renaissance and the Reformation, 1300 to 1650

HIST 4375 Absolutism and Enlightenment in Europe, 1650-1789

HIST 4376 Revolutionary Europe, 1789-1850

*Sociology and Anthropology required courses: 24 semester hours*

SOC 1313 Principles of Sociology

SOC 1323 Current Social Issues

ANTH 3375 Mexican-American Folklore

SOC 4323 The Mexican-American People

*Choose 1 from the following:*

SOC 3301 Methods of Social Research

SOC 4333 Social Theory

*Choose 3 from the following:*

ANTH 2353 Introduction to Folklore

SOC 4313 American Minorities

SOC 4324 Demography of the Southwest

SOC 4363 Society of Modern Mexico

*Additional recommended courses include:*

ANTH 1323 Introductory Cultural Anthropology

ENG 3321 Language and Culture

ENG 4316 Mexican American Literature

SPAN 3310 Masterpieces in Spanish-American Literature I

SPAN 3311 Masterpieces in Spanish-American Literature II

SPAN 3316 The Mexican Novel

SPAN 3321 Short Story in Spanish America

POLS 3360 American Minority Politics

### **Minor in Mexican-American Studies**

This is an interdisciplinary program, taught by the faculty of the departments of History, Modern Languages and Literatures, English, Anthropology and Political Science, that is aimed at giving Mexican-American students a more appreciable understanding of the heritage of their ancestry and its contributions to the present environment.

Mexican-American Studies offers a minor only, but is a minor that offers excellent support for majors in Spanish or the Social Sciences as well as providing support for Secondary Education majors with teaching fields in the Social Sciences or Spanish and for Elementary Education majors specializing in Bilingual Education.

The curriculum for this program is divided into two classifications: impact courses, which deal specifically and directly with the Mexican American, and support courses, which, for the most part, are concerned with Mexico, aspects of its culture and the Spanish language. Programs of study will be influenced by the student's major. Any course may be taken as an elective.

### **Minor Requirements**

18 semester hours, of which 12 hours must be from core courses.

*Core courses: 12 semester hours*

ANTH 2323 Mexican-American Culture

ANTH 3375 Mexican-American Folklore

ANTH 4353 Folklore of Lower Rio Grande Valley  
ENG 4316 Mexican-American Literature  
HIST 2363 Mexican-American Heritage  
HIST 4322 The Spanish Southwest Through 1821  
POLS 3363 American Hispanic Politics  
SOC 4323 The Mexican-American People

*Support Courses: 6 semester hours*

HIST 4325 The American Southwest After 1821  
HIST 4353 History of Mexican Culture  
HIST 4354 Contemporary Mexico  
SPAN 3316 The Mexican Novel  
SPAN 4329 Mexico's Contemporary Literature  
SPAN 3310 Masterpieces of Spanish American Literature-I  
SPAN 3311 Masterpieces of Spanish American Literature-II  
SPAN 4307 The Spanish-American Novel  
SPAN 4326 Contemporary Spanish-American Literature  
SPAN 4336 Advanced Spanish Grammar

Students who want to major or minor in Mexican-American Studies should consult with the director.

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## Department of Music

*Dr. Wallace E. Tucker, Chair*

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### Faculty

Canty, Dean R.\* (DMA, University of Texas at Austin), Associate Professor.  
Crews, Ruth (MM, University of Texas at Austin), Assistant Professor.  
Grossman, Morley K.\* (D.M.A., Indiana University), Associate Professor.  
Guerra, Dahlia (MM, Southern Methodist University), Assistant Professor.  
Mizener, Charlotte\* (PhD, University of Texas at Austin), Assistant Professor.  
Munn, Christopher\* (DMA, University of Oklahoma), Associate Professor.  
Munn, Vivian\* (DMA, University of Oklahoma), Assistant Professor.  
O'Neil, Lorne William\* (DMA, University of Minnesota), Assistant Professor.  
Raimo, John\* (DMA, Eastman School of Music), Professor.  
Schechter, Nancy\* (MM, Eastman School of Music), Lecturer.  
Seale, Carl\* (DMA, North Texas State University), Professor.  
Tucker, Wallace E.\* (DMA, North Texas State University), Associate Professor.

### \*Graduate Faculty

The Department of Music offers majors and minors in Applied Music and in Music Education. In addition, it offers teaching areas for majors in both Secondary and All-level Education.

All majors, in addition to courses in general education and in the theory and literature of music, pursue excellence in performance in their areas of major interest. Instruction is offered in voice, guitar, piano and all of the instruments of the Band and Symphony Orchestra.

Graduate music courses are offered leading toward the Master of Arts in Interdisciplinary Studies degree with a concentration in Music (MAIS-Music).

## Degree Requirements

### Major in Music

*(Applied Music):*

83 semester hours in Music, of which 45 semester hours must be advanced; including Music 1313, 1314, 2301, 2302, 2313, 2314, 3207, 3301, 3302, 3209, 4201, 4203; Applied Music: eight semesters minimum, of which four semesters must be

advanced; Music Ensemble: eight semesters minimum, of which four semesters must be advanced; proficiency in Piano; one-half Junior Recital and a full Senior Recital. A minor is not required.

#### **Requirements for All-Level Teacher Certification:**

61 semester hours in Music, of which 28 semester hours must be advanced; including Music 1313, 1314, 2301, 2302, 2313, 2314, 3207, 3301, 3302, 3312, 4201, 4203, 4208, and three of the following five courses: 3121, 2122, 2123, 2124, 2125. Music 3121 is required for students with a major instrument of voice or piano. Applied Music: eight semesters minimum, of which four semesters must be advanced; Music Ensemble: seven semesters minimum, of which three semesters must be advanced; proficiency in Piano and 18 hours of professional development from the following EDCI courses: 4301, 4302, 4307, 4308 and 4699. Second Teaching Field (Minor) is not required.

#### **Requirements for Secondary Level Teacher Certification:**

60 semester hours in Music, of which 28 semester hours must be advanced; including Music 1313, 1314, 2301, 2302, 2313, 2314, 3207, 3301, 3302, 3209, 4201, 4203, 4208, and three of the following five courses: 3121, 2122, 2123, 2124, 2125. Music 3121 is required for students with a major instrument of voice or piano. Applied Music: eight semesters minimum, of which four semesters must be advanced; Music Ensemble: seven semesters minimum, of which three semesters must be advanced; proficiency in Piano, and 18 hours of professional development from the following EDCI courses: 4301, 4302, 4307, 4308, and 4641. Second Teaching Field (Minor) is not required.

#### **Minor in Music**

##### *(Applied Music):*

30 semester hours in Music, including Music 1313, 1314, 2301, 2302; Music Electives: 6 advanced hours; Applied Music: four semesters; Music Ensemble: four semesters.

#### **Minor in Music**

##### *(with Elementary Level Teacher Certification):*

30 semester hours in Music, of which 9 hours are upper level, including Music 1313, 1314, 2301, 2302, 3312, and three of the following five courses: 3121, 2122, 2123, 2124, 2125. Music 3121 is required for students with a major instrument of voice or piano.

*Applied Music:* four semesters, two semesters upper level; Music Ensemble: four semesters, two semesters upper level; and proficiency in Piano. Combined with 18 hours from the following: READ 3323, READ 3325, MATH 2306, MATH 2307, HLTH 1354, and ENG 4321 and 18 hours of professional development from the following EDCI courses: 4301, 4302, 4305, 4306, and 4611 or 4311 & 4312, or 4310 & 4311.

#### **Master of Arts in Interdisciplinary Studies Concentration Music (MAIS-Music)**

The MAIS-Music is a 36-semester hour Master's degree. Containing 12 to 18 hours of graduate music courses, including MUS 6334, and 9 to 15 hours from the following Music courses: 6230, 6130, 6331, 6332, 6333; combined with 18 to 24 hours of graduate courses from two or more areas in the university. See also the Master's degree graduation requirements elsewhere in the catalog.

## **Departmental Requirements**

A grade of "C" or higher in each required course in Music is necessary for that course to apply toward a degree with a major in Music.

Transfer students may be required to validate (by examination) credits earned in Applied Music and Music Theory at other institutions. Failure to pass validation will result in the repetition of courses required to reach proper standards. Precise definition of standards is provided by the department and examination in Applied Music is before a faculty jury.

Music majors and Music minors with Elementary Level Teacher Certification must enroll in piano until the piano proficiency examination has been passed. The piano proficiency examination must be passed as a prerequisite to enrolling in upper level music courses. Transfer students are required to pass the department's piano proficiency examination, regardless of the number of transfer hours.

Each full-time Music major must be a member of the large ensemble of his/her area of concentration each semester during which he/she is enrolled. These assignments are as follows: Wind and Percussion — Band; Strings — Orchestra; Voice, Piano — Choir; Guitar — Guitar Ensemble. Pianists and others who play appropriate instruments with sufficient proficiency, may use Band or Orchestra for their ensemble requirements. Participation in smaller ensembles is strongly encouraged.

A Music major who selects the performance curriculum will perform one-half of a public recital during the junior year and a complete public recital during the senior year. A Music Major who selects the teacher preparation curriculum will prepare one-half of a music recital during the senior year, and, at the discretion of a faculty committee, perform it in public.

Music majors will study privately in their areas of concentration during each semester they are enrolled full-time (12 hours or more). Music majors enrolled in Applied Music will enroll in Applied Music Lab and attend University concerts and recitals as a part of the course requirement. Examinations in Applied Music are given at the end of each semester before

a jury of music faculty members. Students enrolled in Applied Music will appear in recitals at the discretion of their instructor.

## Course Descriptions

### Music

#### **MUS 1101/3102 GUITAR ENSEMBLE**

Fall, Spring

Instrumental music organization open by audition to students who play guitar. Each number may be repeated any number of times; however, only four hours of each number will count toward a degree.

#### **MUS 1103/3104 UNIVERSITY CHOIR**

Fall, Spring

Vocal music organization open by audition to all university students who qualify. Each number may be repeated any number of times. A minimum of seven semesters is required for a music degree.

#### **MUS 1104/3105 UNIVERSITY BAND**

Fall, Spring

Instrumental music organization open by audition to all university students who play appropriate instruments. A minimum of seven semesters is required for a music degree. Each number may be repeated any number of times.

#### **MUS 1105/3106 SYMPHONY ORCHESTRA**

Fall, Spring

Instrumental music organization open by audition to students who play appropriate instruments. Each number may be repeated any number of times. Only 4 hours of each number will count toward a degree.

#### **MUS 1111/4112 CHAMBER MUSIC**

Fall, Spring

Small performing ensembles of voices and/or instruments. Performance literature selected from repertoire appropriate to each ensemble.

#### **MUS 1185/3186 APPLIED MUSIC LAB**

Fall, Spring

Music majors enrolled in Applied Music must register for Applied Music Lab. Each number may be repeated any number of times.

#### **MUS 1207/3208 JAZZ ENSEMBLE**

Fall, Spring

An instrumental music organization open to all college students who have an ability to play an appropriate instrument. Membership is determined by audition. Organization rehearses and performs popular, rock, and jazz music for its own musical development and to satisfy requests on and off the campus. Each number may be repeated any number of times.

#### **MUS 1208/3210 MARIACHI ENSEMBLE**

Fall, Spring

Instrumental and vocal music organization open by audition to all college students who have the ability to sing or play an appropriate instrument. The organization rehearses and performs traditional Mariachi music at numerous on- and off-campus occasions. Each number may be repeated any number of times; however, only 4 hours of each number will count toward a degree.

#### **MUS 1221 CLASS PIANO**

Fall, Spring

Piano instruction for students who have no previous training in piano. May be used to satisfy the minimum piano requirements for non-pianist music majors. Three class hours a week. *Instructional fee of \$10.*

#### **MUS 1222 CLASS PIANO**

Fall, Spring

Piano instruction for students who have had 1221 or equivalent. May be used to satisfy the minimum piano requirements for non-pianist music majors. Three class hours a week. *Instructional fee of \$10.*

**MUS 1223 BEGINNERS CLASS VOICE**

Fall, Spring

Vocal instruction for students who have no previous training in voice. May be used to satisfy the voice requirements for non-vocal Music majors. Three class hours a week with outside preparation of materials for examination. *Instructional fee of \$10.*

**MUS 1224 BEGINNERS CLASS VOICE**

Fall, Spring

Vocal instruction for students who have no previous training in voice. May be used to satisfy the voice requirements for non-vocal Music majors. Three class hours a week with outside preparation of materials for examination. *Instructional fee of \$10.*

**MUS 1225 BEGINNING GUITAR CLASS I**

Fall, Spring

Basic instruction in guitar to include music reading, tuning of the instrument, elementary chord structures and fingering and strumming techniques. An acoustic instrument is required for this course.

**MUS 1226 BEGINNING GUITAR CLASS II**

Fall, Spring

Continuation of MUS 1225. An acoustic instrument is required for this course. *Prerequisite: MUS 1225.*

**MUS 1227 LEVEL-TWO CLASS GUITAR**

Fall, Spring

Continuation of MUS 1226. An acoustic instrument is required for this course. *Prerequisite: MUS 1226.*

**MUS 1228 LEVEL-TWO CLASS GUITAR**

Fall, Spring

Continuation of MUS 1227. An acoustic instrument is required for this course. *Prerequisite: MUS 1227.*

**APPLIED MUSIC**

Fall, Spring

Private instruction in the concentration of the student's major area. Credit is earned on the basis of one half-hour lesson and one hour minimum daily practice for 2 semester hours credit, or two half-hour lessons per week and two hours minimum daily practice for 4 semester hours credit. *Applied music fee: 2 semester hour course, \$20; 4 semester hour course, \$35.*

- MUS 1231, 1431, 3232, 3432 APPLIED PIANO
- MUS 1233, 1433, 3234, 3434 APPLIED VOICE
- MUS 1235, 1435, 3236, 3436 APPLIED PERCUSSION
- MUS 1241, 1441, 3242, 3442 APPLIED TRUMPET
- MUS 1243, 1443, 3244, 3444 APPLIED FRENCH HORN
- MUS 1245, 1445, 3246, 3446 APPLIED TROMBONE
- MUS 1247, 1447, 3248, 3448 APPLIED BARITONE HORN
- MUS 1249, 1449, 3250, 3450 APPLIED TUBA
- MUS 1261, 1461, 3262, 3462 APPLIED VIOLIN
- MUS 1263, 1463, 3264, 3464 APPLIED VIOLA
- MUS 1265, 1465, 3266, 3466 APPLIED CELLO
- MUS 1267, 1467, 3268, 3468 APPLIED STRING BASS
- MUS 1269, 1469, 3270, 3470 APPLIED GUITAR
- MUS 1271, 1471, 3272, 3472 APPLIED FLUTE
- MUS 1273, 1473, 3274, 3474 APPLIED OBOE
- MUS 1275, 1475, 3276, 3476 APPLIED CLARINET
- MUS 1277, 1477, 3278, 3478 APPLIED SAXOPHONE
- MUS 1279, 1479, 3280, 3480 APPLIED BASSOON

**MUS 1307 MUSIC APPRECIATION**

Fall, Spring, Summer

An introductory course in the elements, forms and stylistic eras in music. Designed for non-music majors and minors. This course meets the General Topics option of the General Education Program requirements, 4.a.

**MUS 1308 MEXICAN FOLK MUSIC**

Fall, Spring

An historical survey of Mexican folk music from its origins in ancient Mexican cultures through modern times. Course

content will include authentic audio and video tape recordings as well as performance of live music. This course meets the General Topics option of the General Education Program requirements, 4.a.

### **MUS 1313 FIRST YEAR MUSIC THEORY I**

Fall

Intervals, scales, chord structures, chord progressions, simple cadences, use of inversions, nonharmonic tones, seventh chords, simple modulations and harmonization of melodies, part-writing, music reading, aural perception and keyboard skills. Concurrent enrollment in MUS 1221 OR 1222 (Class Piano) is required.

### **MUS 1314 FIRST YEAR MUSIC THEORY II**

Spring

Intervals, scales, chord structures, chord progressions, simple cadences, uses of inversions, nonharmonic tones, seventh chords, simple modulations, and harmonization of melodies, part-writing, music reading, aural perception and keyboard skills. Concurrent enrollment in MUS 1221 OR 1222 (Class Piano) is required. *Prerequisite: MUS 1313 with grade of "C" or satisfactory achievement level on MUS 1313 placement exam.*

### **MUS 2122 CLASS PERCUSSION**

(Texas Common Course Number is MUSI 1188.)

Spring

Class instruction in the rudiments of performance on and care of a variety of basic percussion instruments.

### **MUS 2123 CLASS BRASS**

(Texas Common Course Number is MUSI 2168.)

Fall

Class instruction in the rudiments of performance on brass instruments.

### **MUS 2124 CLASS WOODWINDS**

(Texas Common Course Number is MUSI 2166.)

Spring

Class instruction in the rudiments of performance on and care of woodwind instruments.

### **MUS 2125 CLASS STRINGS**

Fall

Class instruction in the rudiments of performance on and care of standard orchestral string instruments.

### **MUS 2301 MUSIC LITERATURE I**

Fall

A survey of the literature of music for all media from earliest Greek music to contemporary works. A chronological study of the principal composers, their works and the development of music in relation to simultaneous historical developments. A course designed specifically for majors and minors. This course meets the General Topics option of the General Education Program requirements, 4.a.

### **MUS 2302 MUSIC LITERATURE II**

Spring

Continuation of Music 2301. This course meets the General Topics option of the General Education Program requirements, 4.a.

### **MUS 2313/2314 SECOND YEAR MUSIC THEORY I/II**

Fall/Spring

Study of figured bass, alto and tenor clefs, elementary formal concepts, intervals, scales, chord structure, chord progressions, simple cadences, use of inversions, nonharmonic tones, seventh chords, modulations and harmonization of melodies. Includes part writing, sight singing, keyboard and aural skills. *Prerequisite: MUS 1314.*

### **MUS 3121 VOCAL DIAGNOSIS**

Fall

A study of the diagnosis and classification of selected vocal dysfunctions. Building skills and discovery of appropriate therapeutic mechanisms for their correction. Vocal health required for students pursuing teaching certification who have a major instrument of voice or piano. *Prerequisites: MUS 2314 with a grade of "C" or higher.*

**MUS 3207 CONDUCTING I**

Spring  
Study of baton techniques as related to both instrumental and choral conducting, fundamental phrasing, balance, mood and attack and release technique. *Prerequisite: Junior standing.*

**MUS 3209 COUNTERPOINT**

Fall, alternate years  
Seventeenth and 18th century counterpoint in all species and its application in arranging for two, three and four voices. *Prerequisites: MUS 2314.*

**MUS 3301 HISTORY OF MUSIC**

Fall, alternate years  
Advanced study of the evolution of the musical art from its beginnings through the Baroque era. *Prerequisite: MUS 2301, 2302.*

**MUS 3302 HISTORY OF MUSIC**

Spring, alternate years  
Continuation of MUS 3301. *Prerequisite: MUS 3301.*

**MUS 3311 ESSENTIAL ELEMENTS OF MUSIC I**

Fall, Spring, Summer I  
Basic elements of music with appropriate techniques and principles of singing, playing, moving and listening to music. Not for Music majors. This course meets the Fine Arts option of the General Education Program Requirements. *Prerequisite: 60 semester hours.*

**MUS 3312 ESSENTIAL ELEMENTS OF MUSIC II**

Spring, alternate years  
A study of musical activities and creative ideas. Emphasis on developing the child's voice, movement and listening skills. *Prerequisite: Music major with 60 semester hours.*

**MUS 4201 FORM AND ANALYSIS**

Spring  
Historical development of form and consideration of balance, symmetry and the principles of musical structure, analysis of phrase structure, simple part forms, variation forms and contrapuntal forms. Special consideration of the sonata-allegro form as found in the symphony, concerto and sonata. *Prerequisites: MUS 2314.*

**MUS 4203 ORCHESTRATION AND ARRANGING**

Fall, alternate years  
Techniques of scoring and editing music for band, orchestra and instrumental ensembles, ranges, timbres, voicings and limitations of the instruments. *Prerequisite: MUS 2314.*

**MUS 4208 CONDUCTING II**

Fall  
Advanced baton technique. Continuation of instruction begun in MUS 3207, with emphasis on gestural communication and score study. *Prerequisite: MUS 3207 and junior standing.*

**MUS 6130 APPLIED RECITAL**

Public performance of specific applied music literature at the graduate level (for students choosing the applied emphasis).

**MUS 6230 GRADUATE APPLIED MUSIC**

Fall, Spring, Summer  
May be taken up to four times by graduate students.

**MUS 6331 PEDAGOGY OF MUSIC**

On Demand  
May be taken up to four times on different topics. There are three topics on elementary music, two topics on instrumental music, and two topics on vocal/choral music.



### **MUS 6332 SEMINAR IN GRADUATE MUSIC THEORY**

On Demand

The application of appropriate analytical techniques to representative compositions from the topics: Arranging, Orchestration, Form and Analysis, and Twentieth Century Music, resulting in original written projects based on the principles studied. (May be taken a total of two times on different topics.)

### **MUS 6333 MUSIC HISTORY AND LITERATURE**

On Demand

May be taken twice on different topics. Topics include Keyboard, Orchestral, Choral, Instrumental, and Vocal.

### **MUS 6334 RESEARCH METHODS IN MUSIC**

On Demand

Music bibliography and criticism. Survey of standard research tools in music. Development of research skills and techniques, and methods of design. Recommended to be taken near the beginning of graduate study. *Prerequisite: Graduate standing.*

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## **Department of Nursing**

*Dr. Carolina Huerta, Chair*

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### **Full-time Faculty**

Crumpler, Lois Marie (EdD, Nova University), Assistant Professor.

Eanes, Linda (MSN, Corpus Christi State University), Assistant Professor.

Erdem, Orelia (MSN, Corpus Christi State University), Assistant Professor.

Guzman, Penny (MSN, University of Puerto Rico), Assistant Professor.

Huerta, Maria Carolina (EdD, Texas A&M University), Associate Professor.

Lerma, Andrea (MSN, Texas Woman's University), Assistant Professor.

Lucas, Vicki Ann (PhD, University of Texas at Austin), Adjunct Professor.

Maville, Janice A. (EdD, Texas A&M University), Associate Professor.

Nieto, Beatriz (MSN, University of Texas Health Science Center at San Antonio), Assistant Professor.

Rossow, Rosalinda (MSN, University of Texas Health Science Center at Houston), Assistant Professor.

Sanchez, M. Sandra (MSN, University of Texas at Austin; CNM, State University of New York at Downstate), Associate Professor.

Skinner, Gwendolynne (MA, University of Northern Colorado), Assistant Professor.

Sullivan, Pamela (MSN, University of Texas Health Science Center at Houston), Assistant Professor.

Tucker, Barbara A. (PhD, Texas A&M University), Associate Professor.

Wilson, Bruce K. (PhD, North Texas State University), Associate Professor.

Wilson, Karen (MSN, University of Texas Health Science Center at San Antonio), Assistant Professor.

Zey, Dottie (MSN, University of Texas Health Science Center at San Antonio), Assistant Professor.

The Nursing Department offers three programs: an Associate Degree of Applied Science in Nursing Program, a Bachelor of Science in Nursing Program (both fully accredited by the Board of Nurse Examiners for the State of Texas and the National League for Nursing), and a Master of Science in Nursing Program.

### **Associate Degree of Applied Science in Nursing Program**

Graduates of the Associate Degree in Nursing (ADN) Program will receive an Associate of Applied Science Degree. Graduates will be eligible to make application to the Texas State Board of Nurse Examiners to write the National Council Licensure Examination. After successfully completing this examination, the graduate is issued a license to practice as a registered nurse (RN) in the State of Texas. This ADN Program is specifically designed to provide initial levels of skills, knowledge, and sensitivities that will enable graduates to enter the nursing profession at a functional level. The area of emphasis is to provide the technical and human relations preparation necessary for a student to enter the profession of nursing.

## Requirements for Admission into the ADN Program:

The ADN applicant must:

1. Meet admission requirements to The University of Texas-Pan American. An application for admission may be obtained from the Office of Admissions (381-2206) or the Department of Nursing (381-3491 or 316-7032).
2. Submit an admission application for the ADN program, which can be obtained from the Department of Nursing.
3. Submit verification of the following admission criteria:
  - a. ACT (or SAT) and TASP scores.
  - b. Nelson Denny Reading grade level — a minimum of 11th grade is required.
  - c. Pass math portion of TASP.
  - d. College Grade Point Average (GPA) — a minimum GPA of "C."
  - e. Completion of prerequisite courses with a minimum grade of "C."
4. Submit application for Fall by the second Monday in February. Admission is NOT guaranteed. It is the applicant's responsibility to provide the Department with the needed information for the selection process.
5. Be accepted by the ADN Student Development Committee.
6. Provide proof of current certification of cardiopulmonary resuscitation (CPR).

### *Admission selection is based upon:*

1. Space availability;
2. Completion of prerequisites; and
3. Total rank score of admission criteria.

LVNs may challenge NURS 1801 (Fundamentals of Nursing) and, if successful, may challenge NURS 1802 (Medical-Surgical Nursing I). The challenge exams include both written and practical components. Passing scores are only valid for two years, and the exam(s) may not be repeated. Candidates who successfully complete the challenge exams must meet all prerequisites for the subsequent nursing course before admission is granted. Current information regarding LVN Challenge can be obtained from the Department of Nursing.

### **Readmission**

Readmission is not automatic. Students desiring readmission must notify the Department of Nursing in writing at least ONE semester (or two summer sessions) in advance. Complete information regarding readmission can be obtained in the current *ADN Student Guide* (formerly *Handbook*) available in the Nursing Department.

## Requirements for the Associate of Applied Science Degree in Nursing

The ADN student must:

1. File a Degree Plan approved by the Chairperson of the Nursing Department.
2. Achieve a minimum grade of "C" in each required course.
3. File an acceptable Application for Degree with the Office of Admissions and Records on or before the date specified in the University calendar.

### *Suggested Degree Plan for the ADN Program\**

Prerequisite Courses	Semester Hours
PSY 1313 Introduction to Psychology or	3
PSY 1323 General Psychology or PSY 1387 or PSY 1388	
BIOL 1401 or BIOL 1402 General Biology	4
BIOL 2403 or BIOL 2404 Anatomy and Physiology	4
Must pass math portion of TASP	
CPR Certification	
<b>Freshman Year</b>	
<i>Fall Semester:</i>	
NURS 1202 Introduction to A.D. Nursing	2
NURS 1801 Fundamentals of A.D. Nursing	8
BIOL 2404 or BIOL 2403 Anatomy & Physiology (required before NURS 1802)	4
<i>Spring Semester:</i>	
NURS 1802 Medical-Surgical Nursing I	8
ENG 1301 Composition	3
PSY 2337 Psychology of Life Span (required before NURS 2406, NURS 2407, and NURS 2505)	3

<b>Summer Session I:</b>	
NURS 2604 Medical-Surgical Nursing II	6
SOC 1313 Introduction to Sociology	3

<b>Summer Session II:</b>	
HRP 2351 Introduction to Clinical Nutrition	3
NURS 2505 Psychosocial Nursing**	5

**Sophomore Year**

<b>Fall Semester:</b>	
NURS 2406 Nursing Care of the Childbearing Family	4
NURS 2407 Nursing Care of the Childbearing Family	4
ENG 1302 Rhetoric	3

<b>Spring Semester:</b>	
NURS 2505 Psychosocial Nursing**	5
NURS 2508 Medical-Surgical Nursing III	5

TOTAL HOURS	72
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\*This format is a suggested curriculum. Non-nursing courses may be taken at times other than listed. All other courses must be taken as designated. Students may take additional University courses as their schedules allow. Some nursing courses have non-nursing prerequisites.

\*\*Taken during Summer or Spring.

**ADN Course Descriptions**

**NURS 1202 INTRODUCTION TO A.D. NURSING**

Fall

This course is designed to introduce the student to unique concepts, theories and practices related to nursing. Students are involved in discussions and presentations of sociocultural, legal and ethical components of client/patient care. Two hours lecture per week.

**NURS 1801 FUNDAMENTALS OF A.D. NURSING**

Fall

This course introduces the student to basic skills and knowledge which assist in applying the nursing process in patient/client care. Students practice and demonstrate competency in performing skills in a simulated situation before providing nursing care to adults in the secondary health care setting. 5 hours lecture and 12 hours laboratory per week. *Prerequisites: NURS 1202 or concurrent, PSY 1313 or PSY 1323 or PSY 1387 or PSY 1388, BIOL 1401 or BIOL 1402, BIOL 2403 or BIOL 2404, CPR certification, admission to ADN Program.*

**NURS 1802 MEDICAL-SURGICAL NURSING I**

Spring

This course provides continued utilization of the nursing process in the care of clients/patients experiencing alterations of selected body systems. Students will provide care in secondary health care settings. 5 hours lecture and 12 hours laboratory per week. *Prerequisites: NURS 1801, BIOL 2403 and BIOL 2404.*

**NURS 2604 MEDICAL-SURGICAL NURSING II**

Summer Session I

This course provides continued utilization of the nursing process in the care of clients/patients experiencing more complex alterations in selected body systems. 3 hours lecture and 12 hours laboratory per week. *Prerequisite: NURS 1802.*

**NURS 2505 PSYCHOSOCIAL NURSING**

Spring (or Summer)

This course provides for continued use of the major concepts of the nursing program. Major emphasis is placed on conditions affecting the psychological integrity of individuals. 3 hours lecture and 8 hours laboratory per week. *Prerequisites: NURS 2604, PSY 2337.*

**NURSE 2406 NURSING CARE OF THE CHILDREARING FAMILY**

Fall

This course focuses on the nursing care of the family with children. 2.5 hours lecture and 6 hours laboratory per week. *Prerequisites: NURS 2604, PSY 2337.*

## **NURS 2407 NURSING CARE OF THE CHILDBEARING FAMILY**

Fall

This course focuses on the nursing care of the family involved in the process of childbearing through the neonatal period. 2.5 hours lecture and 6 hours laboratory per week. *Prerequisites: NURS 2604, PSY 2337.*

## **NURS 2508 MEDICAL-SURGICAL NURSING III**

Spring

This course provides for continued use of the major concepts of the nursing program and is designed to assist in the transition from the role of student to graduate. Major emphasis is on the leadership role of the nurse. 3 hours lecture and 8 hours laboratory per week. *Prerequisites: NURS 2406, NURS 2407.*

## **Bachelor of Science in Nursing Program**

The Bachelor of Science in Nursing (BSN) Program is generic in nature with an alternate pathway for registered nurses. It is designed to enable students to integrate knowledge from theory and research, high level skills, and concepts of leadership into the practice of professional nursing care of individuals, families, and groups. The BSN Program provides a foundation for graduate study.

Generic BSN graduates are eligible to apply to the Texas State Board of Nurse Examiners to write the National Council Licensure Examination. After successfully completing this examination, the graduate is issued a license to practice as a registered nurse in the State of Texas.

### **Requirements for Admission into the BSN Program:**

1. Meet UT Pan American's admission requirements.
2. Complete prerequisites with a minimum grade of "C" in each course.
3. Have a minimum 2.0 grade point average (GPA) on a 4.0 scale.
4. Provide proof of current certification in cardiopulmonary resuscitation (CPR).
5. Provide documentation verifying absence of active pulmonary disease.
6. If born after January 1, 1957: Provide documentation of two doses of Measles-Mumps-Rubella (MMR) vaccination.
7. Provide documentation verifying current immunization against Hepatitis B Virus (HBV).
8. Alternate pathway applicants: Be a registered nurse in the State of Texas or have a temporary permit to practice professional nursing in Texas.
9. Submit application to BSN Program by October 1.
10. Be admitted by the BSN Student Development Committee.

### **Requirements for the Bachelor of Science Degree in Nursing**

1. Achieve a minimum grade of "C" in each required course.
2. Satisfactorily complete all required courses.
3. Have a 2.0 GPA on a 4.0 scale.
4. File a Degree Plan approved by the BSN Coordinator.
5. File an acceptable Application for Degree with the Office of Admissions and Records on or before the date specified in the University Calendar.
6. Meet UT Pan American's General Requirements for a Bachelor's Degree.

## **BSN Curriculum**

### **Prerequisite Courses**

	<b>Semester Hours</b>
Biology (must include Human Anatomy and Physiology)	12
Chemistry	4
Nutrition	3
Statistics	3
Math (College Algebra or higher level)	3
Computer Literacy	3
American History	6
U.S. and Texas Government	6
Introduction to Psychology (or General Psychology)	3
Psychology of Life Span	3
Principles of Sociology (or Introduction to Cultural Anthropology)	3
Freshman English	6
Sophomore English	6
Foreign Language (in same language)	6
General Humanities (refer to UC/GE requirements)	6
Kinesiology (activity courses)	4

Wellness (NURS 2301)	3
TOTAL	80

Alternate pathway (RN) students may be granted credit for selected Nursing courses after validation through examination.

RNs with a baccalaureate degree may be permitted entrance into a BSN course with the consent of the BSN faculty.

Nursing Courses	Semester Hours
Junior <u>Spring (1)</u> 12/8 Semester Hours	
X NURS 3101 Nursing Concepts	1
X NURS 3102 Pharmacology	1
* NURS 3403 Client Assessment	4
X NURS 3604 Nursing Fundamentals	6
O NURS 3407 RN Mobility	4
Junior <u>Fall (2)</u> 12/6 Semester Hours	
* NURS 3406 Pathophysiology	4
X NURS 3608 Adult Health I	6
* NURS 3209 Research	2
Senior <u>Spring (3)</u> 14/8 Semester Hours	
* NURS 4601 Adult Health II	6
X NURS 4602 Family Health Care	6
* NURS 4203 Issues	2
Senior <u>Fall (4)</u> 14/10 Semester Hours	
* NURS 4404 Community Health	4
X NURS 4405 Mental Health	4
* NURS 4607 Leadership	6

X GENERIC Semester Hours		O ALTERNATE Semester Hours	
General Ed	80	General Ed	77
Nursing	52	RN Upper Level Credit	23
		Nursing	32
Total	132	Total	132

X	generic pathway
O	alternate pathway
*	both generic and alternate
/	generic hours/alternate hours

## BSN Course Descriptions

### NURS 2301 WELLNESS

Fall

This course is designed to introduce the student to theories, concepts, and practices related to wellness, with an emphasis on self-care. The student will have an opportunity to practice and demonstrate competency in self-care skills in a simulated situation. 2 hours lecture/4 hours laboratory. *Prerequisite: None. (May be taken by students who cannot take 4 SCH of required kinesiology activities to fulfill UC/GE requirements.)*

### NURS 3101 NURSING CONCEPTS

Spring

This course focuses on nursing concepts such as nursing history, leaders, trends, educational programs, and professionalism. 1 hour lecture. *Prerequisites: NURS 2301 and admission to the BSN Program.*

### NURS 3301 HEALTH CARE DELIVERY SYSTEM

Spring

This course is a study of the health care delivery system with emphasis on past, present, and potential influences upon the system. Students will use information from the physical sciences, social sciences, humanities, and health care disciplines to relate health care needs to the health care delivery system. Three hours lecture. *Prerequisite: Consent of the department.*

## **NURS 3102 PHARMACOLOGY**

Spring

This course introduces the student to pharmacological concepts and nursing responsibilities for drug therapy. Dosage calculations, safe administration, and the use of the nursing process in the various methods of medication therapy are emphasized. 1 hour lecture. *Prerequisite: Consent of the BSN faculty.*

## **NURS 3402 PLANNING NURSING CARE**

This course is an in depth study of the nursing process components: assessment, analysis, planning, implementation, and evaluation. The student will utilize a practice setting to develop, utilize, and evaluate client care plans. 2 hours lecture, 8 hours laboratory. *Prerequisite: Consent of the department.*

## **NURS 3403 CLIENT ASSESSMENT**

Spring

This course applies psychological, social, and cultural concepts conjointly with anatomy/physiology and assessment skills used in evaluating the health status of clients. The student will use laboratory settings to practice cognitive, affective, and psychomotor skills in the systematic assessment of clients and their environment. 3 hours lecture, 4 hours laboratory.

*Prerequisite: Admission to the BSN Program or consent of the BSN faculty.*

## **NURS 3604 NURSING FUNDAMENTALS**

Spring

This course introduces the student to fundamental health care concepts. The student will demonstrate competency in performing skills in a simulated situation prior to their application in a secondary health care setting. 3 hours lecture, 12 hours laboratory. *Prerequisites: NURS 2301 and admission to the BSN Program.*

## **NURS 3405 RURAL HEALTH NURSING**

Spring

This course focuses on the health needs of rural areas. Students will have guided experiences in planning and implementing care for individuals and groups in isolated areas. 2 hours lecture, 8 hours laboratory. *Prerequisite: Consent of the department.*

## **NURS 3406 PATHOPHYSIOLOGY**

Fall

This course builds upon understanding of basic anatomy and physiology. The mechanisms of disease and the various adaptive and compensatory mechanisms which maintain homeostasis are identified. This knowledge will be used to evaluate the appropriateness and utility of clinical therapeutic nursing interactions. *Prerequisites: BIOL 2403 and 2404.*

## **NURS 3307 SPECIAL TOPICS IN NURSING**

This course is designed to provide students the academic flexibility to study contemporary issues and practices in the profession of nursing. The categories of offerings may include: nursing administration, advanced medical-surgical nursing, advanced psychosocial nursing, ethicolegal issues, advanced family-child nursing, health care skills, and contemporary issues and trends in nursing. The course may be repeated for credit when the topics vary. 3 hours lecture. *Prerequisite: Consent of the department.*

## **NURS 3407 RN MOBILITY**

Spring

This course is designed to assist the registered nurse in developing a personal philosophy of professional nursing. Changes in the health care delivery system (sociocultural, economic, political, ethicolegal, technological) and their impact on nursing will be described. Emphasis will be placed on the nursing process. 4 hours lecture. *Prerequisite: Admission to the BSN Program or consent of the BSN faculty.*

## **NURS 3608 ADULT HEALTH I**

Fall

This course provides for continued use of nursing concepts in providing care for two or more adults in a secondary health care setting. The nursing process is emphasized as it relates to alterations of selected body systems/functions. 3 hours lecture, 12 hours laboratory. *Prerequisites: NURS 3102, NURS 3403, and 3604.*

## **NURS 3209 RESEARCH**

Fall

This course enables the student to be a knowledgeable nursing research consumer. An orientation to the research process, various methods of inquiry, and ethical considerations are presented to assist the student in critical evaluation and appropriate application of research findings to practice. 2 hours lecture. *Prerequisite: Consent of the BSN faculty.*

## **NURS 4601 ADULT HEALTH II**

Spring

This course provides continued use of nursing concepts in the care of two or more adult clients experiencing crisis and/or complex health alterations in a secondary health care setting. The nursing process is emphasized as it relates to alterations of selected body systems. 3 hours lecture, 12 hours laboratory. *Prerequisites: NURS 3403, NURS 3406, and NURS 3608 [generic]; NURS 3403, NURS 3406, and passage of advanced placement exam(s) [alternate pathway].*

## **NURS 4602 FAMILY HEALTH CARE**

Spring

This course focuses on the utilization of the nursing process in the care of families throughout the perinatal cycle, childhood, and adolescence. Theoretical concepts and selected research findings will be applied to developmental and familial concerns in both normal and high-risk settings. 3 hours lecture, 12 hours laboratory. *Prerequisites: NURS 3406 and 3608.*

## **NURS 4203 ISSUES IN NURSING**

Spring

This course will enable the student to analyze issues, trends, and problems in the delivery of nursing care. The student will identify an issue, trend, or problem and evaluate its impact on the health care delivery system. 2 hours lecture. *Prerequisite: Consent of the BSN faculty.*

## **NURS 4404 COMMUNITY HEALTH NURSING**

Fall

This course focuses on the role of the nurse in planning and providing primary care to individuals and groups in a community or rural setting. The course will emphasize complex sociocultural, political, economic, and health issues within a community. The student will use the nursing process to recognize and meet health needs of individuals and groups. 2 hours lecture, 8 hours laboratory (4 hours lecture/16 hours laboratory weekly for seven weeks). *Prerequisite: NURS 4601 or consent of the BSN faculty.*

## **NURS 4405 MENTAL HEALTH NURSING**

Fall

This course provides continued use of nursing concepts in the care of clients experiencing alterations in mental health. The nursing process is emphasized as it relates to altered psychosocial integrity. 2 hours lecture, 8 hours laboratory (4 hours lecture/16 hours laboratory weekly for seven weeks). *Prerequisite: NURS 4601.*

## **NURS 4607 LEADERSHIP IN NURSING**

Fall

This course focuses on theories of nursing leadership, organizational structures, and management in relation to health care. The nursing process will be emphasized as it relates to leadership and management in clinical settings. The transition from student role to professional role will be explored. 3 hours lecture, 12 hours laboratory. *Prerequisite: NURS 4601 or consent of the BSN faculty.*

## **NURS 4308 PROBLEMS SEMINAR**

This course focuses on issues, trends, and problems in the delivery of nursing care. Students will identify an issue, trend, or problem and evaluate its impact on the health care system. The use of research findings and theoretical constructs will be stressed. 3 hours lecture. *Prerequisite: Consent of the BSN faculty.*

## **Master of Science in Nursing Program**

The Department of Nursing offers courses leading to the Master of Science in Nursing with a clinical specialization in Adult Health. Functional roles offered are Clinical Specialist, Administrator, and Educator.

### **Requirements for Admission into the MSN Program:**

The Department of Nursing has admission requirements that are in addition to the University requirements.

### **Clear Admission**

1. A baccalaureate degree in nursing from a National League for Nursing accredited program.
2. Current licensure as a registered nurse in Texas.
3. Grade-point average of 3.0 or above on a 4.0 scale in upper division nursing and in any graduate courses.
4. A satisfactory score on the Graduate Record Examination (1000 or more on the verbal and quantitative sections) or on the Miller Analogies Test (50 minimum score). Scores more than five years old will not be accepted.
5. A basic statistics course which must be completed within five years prior to enrolling.
6. Three satisfactory academic and/or professional references.

7. Approval of the MSN Student Development Committee.
8. Immunization records showing freedom from tuberculosis and immunity to hepatitis B (upon admission to program).

### Probationary Admission

A student who does not meet clear admission requirements numbers 3 and 4, but has a score of 1400 or more (based upon the following formula: 200 times the GPA + the sum of the verbal and quantitative parts of the GRE), will be granted probationary admission. This minimum entrance score must be met prior to registration. All other clear admission requirements must be met. Probationary admission is limited to a maximum of 12 hours. If at the end of the semester in which a student's total earned graduate hours are 9 or more and the student's graduate GPA is 3.0 or better, admission classification will be changed to clear.

### Transient Admission

The transient student category is designed for students who are enrolled and in good academic standing in a graduate program other than the UT Pan American graduate nursing program. Students who obtain permission may enroll in selected courses at UT Pan American by:

1. Meeting basic requirements for graduate admission as a transfer student.
2. Submitting a letter of application to the Department of Nursing.
3. Obtaining consent of the instructor of the course being taught at UT Pan American.

### Non-Degree Admission

The non-degree-seeking category is for those post-baccalaureate students who want to take courses, but are not working toward a degree. Non-degree students may enroll in selected courses by:

1. Submitting a Graduate Student Application for Admission Form to the Registrar's Office, meeting deadlines for admission.
2. Submitting a letter of application to the Department of Nursing.
3. Submitting official transcripts to the Registrar's Office verifying a baccalaureate degree in nursing.
4. Obtaining acceptance by the MSN Student Development Committee.
5. Presenting immunization records showing freedom from tuberculosis and immunity to Hepatitis B.

Students admitted to the non-degree status may write to the MSN Student Development Committee and apply to the graduate program. At the time the application is reviewed, the student must have provided an official transcript, GRE or GMAT score, reference letters, evidence of a current Texas license, and evidence of meeting the statistics requirement. Furthermore, the application letter should include a petition that courses completed while under the non-degree status be credited toward the degree. A maximum of nine hours, with grades of "B" or better, may be proposed toward the Master's Degree in Nursing.

### Transfer Admission

Transfer admission will follow University guidelines. A maximum of 12 graduate hours may be accepted following review by the MSN Student Development Committee. Any request for waiver of the 12-hour maximum will be reviewed on an individual basis by the MSN Student Development Committee.

### International Student Admission

In addition to the University and Departmental requirements for admission, the following are required:

1. A minimum score of 550 on the TOEFL. This score should be no more than two years old, but can be evaluated on an individual basis.
2. A course-by-course transcript evaluation by World Education Service (WES).
3. A license to practice nursing in the State of Texas obtained prior to admission according to Board of Nurse Examiners rules and regulations.

### Requirements for MSN in Adult Health

1. Degree plan approved by the MSN Program Coordinator.
2. Satisfactory completion of all courses within 5 years of admission.
3. Students may choose a Thesis or a Non-Thesis Option.

### MSN Curriculum

#### Required Courses

	<i>Semester Hours</i>
NURS 6301 Theoretical Foundations in Nursing	3
NURS 6302 Research in Nursing	3
NURS 6303 Statistics in Nursing	3
NURS 6304 Advanced Pathophysiology in Nursing	3
NURS 6305 Advanced Health Assessment	3
NURS 6306 Pharmacology for Advanced Nursing Practice	3
NURS 6208 Nursing Informatics	2



NURS 6209 Professional Nursing Issues	2
NURS 6321 Advanced Adult Health I	3
NURS 6322 Advanced Adult Health II	3
NURS 6323 Advanced Adult Health III	3
TOTAL	<u>31</u>
<b>Functional Role Courses</b>	
NURS 6341 Clinical Specialist I	3
NURS 6342 Clinical Specialist II	3
or	
NURS 6343 Educator I	3
NURS 6344 Educator II	3
or	
NURS 6345 Administrator I	3
NURS 6346 Administrator II	3
TOTAL	<u>6</u>
Thesis Option	
NURS 7300 Thesis I (Proposal)	3
NURS 7301 Thesis II	3
TOTAL	<u>6</u>
Non-Thesis Option	
NURS 7302 Practice Intervention Project Elective	3 3
PROGRAM TOTAL	<u>43</u>

## MSN Course Descriptions

### NURS 6301 THEORETICAL FOUNDATIONS IN NURSING

This course provides an examination of the philosophical and theoretical bases underlying concepts and operations inherent to nursing. Theories from behavioral, natural, social, and applied sciences are considered with the aim of synthesis in the development and application to nursing theory. 3 hours lecture. *Prerequisite: Graduate student status or consent of instructor.*

### NURS 6302 RESEARCH IN NURSING

This course enables the student to develop a research-oriented approach to the improvement of the profession of nursing. The logic, methods, and techniques of the research process are explored from problem formulation to analysis and interpretation. Quantitative and qualitative methodologies are addressed. The student is provided the opportunity to recognize a researchable problem in nursing and to develop a plan for its study. 3 hours lecture. *Prerequisite: Graduate student status or consent of instructor.*

### NURS 6303 STATISTICS IN NURSING

This course focuses on the understanding of statistics as it relates to the research process. Both descriptive and inferential statistics are addressed with computer applications to selected research questions and hypotheses. 2 hours lecture, 3 hours laboratory. *Prerequisite/Co-requisite: NURS 6208.*

### NURS 6304 ADVANCED PATHOPHYSIOLOGY IN NURSING

This course explores changes in normal cellular and tissue functions and related physiologic processes of the major body systems caused by disease and aging. 3 hours lecture. *Prerequisite: Graduate student status or consent of instructor.*

### NURS 6305 ADVANCED HEALTH ASSESSMENT

This course presents the theoretical and clinical principles for advanced health assessment in specialty nursing practice. Emphasis is placed on physical, psychosocial, and cultural assessment to develop a comprehensive health data base. Integration of theory is tested in the laboratory setting. 2 hours lecture, 3 hours laboratory. *Prerequisites: Graduate student status and consent of the instructor.*

### NURS 6306 PHARMACOLOGY FOR ADVANCED NURSING PRACTICE

The focus of this course is the pharmacologic and pharmacokinetic principles used in the therapeutic management of common health care problems in clients across the life span. Development of scientifically-based clinical pharmacologic man-

agement of selected health problems is emphasized. 3 hours lecture. *Prerequisite: Graduate student status and consent of the instructor.*

#### **NURS 6208 NURSING INFORMATICS**

This course provides the student the opportunity to use computer applications in nursing. 1 hour lecture, 3 hours laboratory. *Prerequisite: Graduate student status and consent of the instructor.*

#### **NURS 6209 PROFESSIONAL NURSING ISSUES**

This course provides a forum for exploration and evaluation of concerns of contemporary nursing. The focus is the nursing profession and current major issues and problems concerning it. Social forces influencing changes in the nursing profession are analyzed in terms of historical antecedents and their current manifestations. National, state, and regional political activity in nursing is also emphasized. 2 hours lecture. *Prerequisite: Graduate student status or consent of instructor.*

#### **NURS 6321 ADVANCED ADULT HEALTH I**

This course focuses on health restoration, maintenance, and promotion for adults in a variety of health care settings. Developmental dynamics through the adult life cycle are examined. The Mexican-American cultural dynamics receive special emphasis when examined through psychological, physiological, sociological, sexual, and spiritual domains. 2 hours lecture, 3 hours clinical laboratory. *Prerequisite/Co-requisite: NURS 6305.*

#### **NURS 6322 ADVANCED ADULT HEALTH II**

This course focuses on the collaborative management and evaluation of episodic and restorative health care of adults with acute, major and chronic health deviations. Appropriate diagnostic methods, treatment modalities and referral criteria are utilized in the implementation of protocols for advanced nursing practice. Dynamics of the Mexican-American culture continue to be emphasized. Quality assurance through peer review is emphasized. 1 hour lecture, 6 hours clinical laboratory. *Prerequisite/Co-requisite: NURS 6321, NURS 6301, NURS 6304.*

#### **NURS 6323 ADVANCED ADULT HEALTH III**

This course focuses on health restoration, maintenance, and promotion of adults in special areas of interest. Dynamics of the Mexican-American culture continue to be emphasized. Students contract with faculty to develop learning opportunities focused on special areas of interest in men's health, women's health, and/or care of the older adult. Seminars will focus on intervention and treatment of individual health conditions within these specific populations. 1 hour lecture, 6 hours clinical laboratory. *Prerequisite/Co-requisite: NURS 6322, NURS 6306.*

#### **NURS 6341 CLINICAL SPECIALIST I**

This course is the first of a two-course sequence designed for the student preparing for the advanced practice role within the health care system. The various components of the role and an evaluation process will be discussed. The student will study clinical specialist roles from an historical perspective as well as their impact upon advanced nursing practice. 2 hours lecture, 3 hours clinical laboratory. *Prerequisite: NURS 6321, NURS 6322.*

#### **NURS 6342 CLINICAL SPECIALIST II**

This course focuses on the impact that the clinical specialist has upon the health care delivery system. Students explore the use of standards of care, power and the change process. Strategies for negotiating clinical specialist roles are identified. Students work with preceptors to implement and evaluate advanced practice in a clinical area. 1 hour lecture, 6 hours clinical laboratory. *Prerequisite: NURS 6341.*

#### **NURS 6343 EDUCATOR I**

This course is the first of a two-course sequence designed for the student preparing for faculty positions in programs of basic technical and professional education, staff development, continuing education and patient/client education. Focus is on curriculum development, instructional design, principles of teaching/learning, education evaluation, and application of educational research. 2 hours lecture, 3 hours clinical laboratory. *Prerequisite: Graduate student status and consent of instructor.*

#### **NURS 6344 EDUCATOR II**

This course emphasizes the implementation and evaluation of nursing curriculum and instruction. Students will contract with nursing educators for learning experiences which will provide mentoring in the educator role. 1 hour lecture, 6 hours clinical laboratory. *Prerequisite: NURS 6343.*

#### **NURS 6345 ADMINISTRATOR I**

This course is the first of a two-course sequence designed for students preparing for administrative roles in the health care delivery system. Students apply organizational, management, and leadership principles and practices to nursing administration. Students discuss and analyze trends and issues which affect nursing administration and health care. 2 hours lecture, 3 hours clinical laboratory. *Prerequisite: Graduate student status and consent of instructor.*

### **NURS 6346 ADMINISTRATOR II**

This is the second course of a two-course sequence designed for students preparing for nursing administrative positions. Students have the opportunity to explore the health care system and roles for nurses within the system. Emphasis is on implementation and evaluation of administrative roles in a selected system. Students work with preceptors to implement and evaluate nursing administration activities. 1 hour lecture, 6 hours clinical laboratory. *Prerequisite: NURS 6345,*

### **NURS 7300 THESIS I (PROPOSAL)**

The thesis provides the student with an opportunity to identify a nursing research problem with a clinical or functional area of interest, to pursue its study, and to contribute to the body of nursing knowledge. It provides experience in research design and implementation in a guided setting. *Prerequisite: NURS 6322, NURS 6342 or NURS 6344 or NURS 6346.*

### **NURS 7301 THESIS II**

This course continues the individual student contact with faculty to complete and defend the thesis. *Prerequisite: NURS 6300.*

### **NURS 7302 PRACTICE INTERVENTION PROJECT**

This course is required for non-thesis students. It involves delineation of a problem/issue/project related to the student's clinical or functional area, review of pertinent literature, and development of a proposed solution with steps in implementation and evaluation methodology. The student will give a written and oral presentation of the project to a selected audience. *Prerequisite: NURS 6322, NURS 6342 or NURS 6344 or NURS 6346.*

### **NURS 6361 SPECIAL TOPICS IN NURSING**

This course is designed to provide students the academic flexibility to study contemporary issues and practices in the profession of nursing. The categories of offerings may include various graduate level topics such as ethicolegal issues, health care skills, and functional area issues. This course may be repeated for credit when the topics vary. *Prerequisite: Consent of the faculty.*

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## **Physical Education**

See Health and Kinesiology

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## **Philosophy**

See Department of History and Philosophy

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## **Department of Physics and Geology**

*Dr. Samuel E. Giuoco, Chair*

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### **Full-time Faculty**

Ellis, Fred E. (PhD, Louisiana State University, 1965), Associate Professor, Applied Physics.  
Giuoco, Samuel E. (EdD, Oklahoma State University, 1971), Assistant Professor, Acoustics.  
Glaser, Frederic M. (PhD, Ohio State University, 1963), Associate Professor, Spectroscopy.  
Marsh, Collette A. (MS, University of Alaska at Fairbanks, 1993), Lecturer, Space Physics.  
Mireles, H. Nellie (MS, Texas A&M University, 1983), Lecturer, General Physics.  
Shockley, William C., Jr. (MA, University of Texas, Austin, 1966), Assistant Professor, General Physics.

The Department of Physics and Geology offers a major in physics and minors in geology, physical science and physics.

There are secondary and elementary teaching fields in physics, physical science and earth science. The department also offers courses in subject areas of astronomy and geography.

### **Geology Minor**

The geology minor is compatible with major fields of study in physics, chemistry, education, biology, engineering, and business.

## **Degree Requirements**

### **Major in Physics:**

The major in physics requires 36 semester hours of physics, which must include PHYS 1401 and 1402, or their equivalent under CEEB or CLEP, PHYS 2301, 2101, 2302, 2102, 3301, 3303, 3304, 3305, 3402 (or 4301 and 3101), and an additional 4 advanced hours of physics. The University General Education Requirements and the requirements for a related minor must also be completed.

### **Minor in Physics:**

22 semester hours in physics, which must include PHYS 1401 and 1402, or their equivalent under CEEB or CLEP, 2301, 2101, 2302, 2102, 3402 (or 4301 and 3101), and an additional 2 advanced hours of physics.

### **Minor in Geology**

20 semester hours in geology, of which 8 semester hours must be advanced; must include: Geology 1401, 1402, 1102, 2402, 3401, 3402.

### **Teacher Certification in Physics:**

*Secondary Option II:* 24 semester hours in physics, of which 12 semester hours must be advanced; must include PHYS 1401, 2301, 2101, 2302, and 2102.

### **Teacher Certification in Physical Science:**

*Elementary Option III:* 24 semester hours in physical sciences, of which 8 must be advanced; must include PHYS 1401, 1402; CHEM 1401, 1402 and other courses from physics, physical science and chemistry.

*Secondary Option II:* 24 semester hours in the physical sciences, of which 8 must be advanced; must include PHYS 1401, 1402; CHEM 1401, 1402 and other courses from physics or chemistry which satisfy these requirements.

### **Teacher Certification in Earth Science:**

*Secondary Option I:* 36 semester hours in geology, of which 20 semester hours must be advanced; must include Geology 1401, 1402, 2401, 2402, 3401, 3402, 3403, 3404 and 3405.

*Secondary Option II:* 24 semester hours in geology, of which 12 semester hours must be advanced; must include Geology 1401, 1402, 2401 or 2402, 3401, 3403 and 3405.

Students in either certification option should take as recommended electives 4 semester hours of Astronomy and 3 semester hours of Physical Geography in preparation for the ExCET test.

Students are expected to furnish their own transportation and expenses on field trips.

## **Course Descriptions**

### **Astronomy**

#### **ASTR 1401 GENERAL ASTRONOMY**

(Texas Common Course Number is PHYS 1411.)

Fall

A study of basic concepts in Astronomy and of the solar system. Telescopes and other instruments, including the planetarium, are used as an integral part of the course. 3 hours lecture and 3 hours laboratory. \$4 laboratory fee.

#### **ASTR 1402 GENERAL ASTRONOMY**

(Texas Common Course Number is PHYS 1412.)

Spring

A study of the stellar universe. Telescopes and other instruments, including the planetarium, are used as an integral part of the course. 3 hours lecture and 3 hours laboratory. *Prerequisite:* ASTR 1401. \$4 laboratory fee.

## Geography

### **GEOG 2301 CONSERVATION OF NATURAL RESOURCES**

Fall, Spring

A study of the conservation and use of our natural resources. Includes topics in soils, minerals, water and energy resources. Designed to meet the conservation requirements for elementary education. Can be counted in the supporting areas of elementary curriculum.

### **GEOG 2313 PRINCIPLES OF PHYSICAL GEOGRAPHY**

Fall, Spring

An introduction to physical geography with emphasis on weather and climate. Soils and vegetation types and distributions are also studied. Can be counted in the supporting areas of elementary education curriculum.

## Geology

### **GEOLOGICAL PHYSICAL GEOLOGY**

(Texas Common Course Number is GEOL 1403.)

Fall

Involves a comprehensive description of materials composing the earth, and deals with the classification and analysis of geologic agents responsible for the origin, structure, and evolution of the earth's crust. 3 hours lecture and recitation, and 3 hours laboratory and field trips. \$4 laboratory fee.

### **GEOLOGICAL HISTORICAL GEOLOGY**

(Texas Common Course Number is GEOL 1404.)

Spring

A course dealing with the geological history of the earth and its inhabitants as revealed by the fossil record with emphasis on North America. 3 hours lecture and recitation, and 3 hours laboratory and field trips. \$4 laboratory fee.

### **GEOLOGICAL GEOMORPHOLOGY**

On Demand

A course designed for sophomore Geology majors and teachers of Earth Science. An analysis of land forms of the earth and processes by which they are formed. Also, comparative studies of lunar-earth land forms. Emphasis will be placed on mapping and interpretation of local geomorphology. 3 hours lecture and 3 hours laboratory and field trips. *Prerequisite: GEOL 1401. \$4 laboratory fee.*

### **GEOLOGICAL STRUCTURAL GEOLOGY**

On Demand

A course designed for Geology majors, minors and teachers of Earth Science. A study of the architecture of the earth, including the causes of deformation, resulting structures and their interrelationships. 3 hours lecture and 3 hours laboratory and field trips. *Prerequisite: GEOL 1401, 1402. \$4 laboratory fee.*

### **GEOLOGICAL MINERALOGY**

On Demand

A course designed for Geology or Chemistry majors, minors, or teachers of Earth Science. A study of the major mineral groups, their atomic structure, chemical composition, external forms, properties and geologic interpretation. 3 hours lecture and 3 hours laboratory and field trips. *Prerequisite: GEOL 1401 or CHEM 1401, 1402. \$4 laboratory fee.*

### **GEOLOGICAL INVERTEBRATE PALEONTOLOGY**

On Demand

A course designed for Geology or Biology majors, minors, or teachers of Earth Science. An introduction to the study of fossils, including comparison of living and fossil forms, their morphology, classification, ecology and geologic history. 3 hours lecture and 3 hours laboratory and field trips. *Prerequisite: Geology 1402 or Biology 1401, 1402. \$4 laboratory fee.*

### **GEOLOGICAL OCEANOGRAPHY**

On Demand

An introduction to Physical Oceanography designed for Geology and Biology majors and Earth Science teachers. A study of the origin, motions, and the physical and chemical properties of marine waters. 3 hours of lecture and 3 hours laboratory and field trips. *Prerequisite: GEOL 1401 or advanced standing in any of the related sciences or consent of the instructor. \$4 laboratory fee.*

### **GEOL 3404 STRATIGRAPHY-SEDIMENTATION**

On Demand

A study of sedimentary processes and principles of stratigraphy, followed by a survey of stratified rocks of North America, their correlation, stratigraphic relations, and guide fossils. 3 hours lecture and 3 hours laboratory and field trips. *Prerequisites: GEOL 1401, 1402, 2402, 3401. \$4 laboratory fee.*

### **GEOL 3405 PETROLOGY**

On Demand

A course designed for Geology majors or minors, or teachers of Earth Science. A study of the major rock groups, their origin, classification and chemical and physical properties. Both megascopic and petrographic techniques will be emphasized. 3 hours lecture and 3 hours laboratory and field trips. *Prerequisite: GEOL 3401. \$4 laboratory fee.*

## **Physical Science**

### **PSCI 1421 PHYSICAL SCIENCE**

(Texas Common Course Number is PHYS 1415.)

Fall, Summer

A survey course designed to provide an introduction to the concepts and principles of physical science for non-science and elementary teaching majors. The topics covered include astronomy, chemistry and mechanics. *Prerequisite: MATH 1334. \$4 laboratory fee.*

### **PSCI 1422 PHYSICAL SCIENCE**

(Texas Common Course Number is PHYS 1417.)

Spring, Summer

A survey course that introduces the concepts and principles of physical science for non-science and elementary teaching majors. Geology, meteorology, and physics will be included in this course of study. 3 hours lecture and 2 hours laboratory. *Prerequisite: PSCI 1421. \$4 laboratory fee.*

### **PSCI 1487 PHYSICAL SCIENCE HONORS**

A survey of the concepts and principles of mechanics, energy, astronomy and relativity. *Prerequisite: Admission to Honors Studies or by invitation. Credit given for only one of the following: PSCI 1421 or 1487.*

### **PSCI 1488 PHYSICAL SCIENCE HONORS**

A survey of the concepts and principles of electricity, quantum physics, and chemistry. *Prerequisite: PSCI 1487 or by invitation. Credit given for only one of the following: PSCI 1422 or 1488.*

### **PSCI 2408 SURVEY OF PHYSICAL SCIENCE**

Introduction to topics of the physical sciences drawn from physics, chemistry, and geology. Basic concepts from mechanics, electricity, light, atomic structure, the elements and compounds, and simple reactions will be covered. Earth materials and processes as well will be included. *Prerequisites: BIOL 1405, 1406.*

### **PSCI 3301 INTERMEDIATE PHYSICAL SCIENCE**

On Demand

Advanced treatment of topics covered in PSCI 1421 and PSCI 1422. Emphasis is on problems of our environment. *Prerequisite: MATH 1334 and 8 hours of a physical science, or consent of instructor.*

### **PSCI 4311 TOPICS IN PHYSICAL SCIENCE**

On Demand

A course which incorporates many different topics in physical science. Guest lecturers, student participation and basic concept presentation will be utilized for each topic. The course may be taken more than one semester for different topics. *Prerequisite: MATH 1334 and 8 hours of a physical science, or consent of instructor.*

## **Physics**

### **PHYS 1401 GENERAL PHYSICS**

(Texas Common Course Number is PHYS 1401.)

Fall, Spring, Summer

An algebra-based introduction to the principles of mechanics, fluids, heat, waves and sound. 3 hours lecture, 3 hours laboratory. *Prerequisite: MATH 1340. Recommended credit for or concurrent enrollment in MATH 1356. \$4 laboratory fee.*

**PHYS 1402 GENERAL PHYSICS**

(Texas Common Course Number is PHYS 1402.)

Fall, Spring, Summer

A continuation of PHYS 1401 covering the principles of electricity, magnetism, light, and modern physics. 3 hours lecture, 3 hours laboratory. *Prerequisite: Physics 1401. \$4 laboratory fee.*

**PHYS 2101 INTERMEDIATE LABORATORY**

Fall, Spring

Laboratory exercises illustrating the principles of mechanics, heat and sound. Emphasis is placed on statistical data analysis and error treatment. *Prerequisite: Concurrent with or credit in Physics 2301. \$4 laboratory fee.*

**PHYS 2102 INTERMEDIATE LABORATORY**

Fall, Spring

Laboratory exercises illustrating the principles of electricity, magnetism, waves, and optics. *Prerequisite: Concurrent with or credit in Physics 2302. \$4 laboratory fee.*

**PHYS 2301 INTERMEDIATE PHYSICS**

Fall, Spring

A calculus-based study of mechanics, heat, thermodynamics, wave motion and sound. Three hours lecture. *Prerequisite: PHYS 1401 and MATH 1370 with concurrent enrollment in MATH 2342. May not be counted for credit unless Physics 2101 is taken.*

**PHYS 2302 INTERMEDIATE PHYSICS**

Fall, Spring

Treatment of electricity, magnetism, wave phenomena and optics using calculus. *Prerequisite: PHYS 1402, 2301 and MATH 2342. May not be counted for credit unless PHYS 2102 is taken.*

**PHYS 3101 JUNIOR LABORATORY**

Fall, Spring

The course is designed to acquaint the student with the experimental method. Experiments are chosen to cover as many fields of physics as possible in keeping with the background and abilities of the students. 3 hours laboratory. Credit, 1 hour. *Prerequisite: 12 semester hours of Physics. \$4 laboratory fee.*

**PHYS 3102 JUNIOR LABORATORY**

Fall, Spring

A continuation of PHYS 3101. *\$4 laboratory fee.*

**PHYS 3301 ELECTROMAGNETIC THEORY**

On Demand

Theory of electrostatics, electromagnetics, magnetic properties of materials, units, and thermoelectricity, simple treatment of alternating current, oscillating circuits, electromagnetic radiation and Maxwell's Equation. 3 hours lecture. *Prerequisites: 12 semester hours of Physics and MATH 2342, which may be taken concurrently.*

**PHYS 3303 HEAT AND THERMODYNAMICS**

On Demand

Study of heat measuring devices, thermal expansion, behavior of gases, elementary thermodynamics, change of state, specific heats and transfer of heat. 3 hours lecture. *Prerequisite: 12 semester hours of Physics and MATH 2342, which may be taken concurrently.*

**PHYS 3304 OPTICS**

On Demand

A study of physical optics, including diffraction, interference, polarization and the beginning of spectroscopy together with some geometrical optics. 3 hours lecture. *Prerequisites: 12 semester hours of Physics and MATH 2342, which may be taken concurrently.*

**PHYS 3305 MECHANICS I**

On Demand

A rigorous treatment of the motion of a particle in one, two and three dimensions; the motion of a system of particles with a detailed treatment of the conservation laws; the statics of fluids and solids; an introduction to the motion of rigid bodies. 3 hours lecture. *Prerequisites: 12 semester hours of Physics; MATH 3349, which may be taken concurrently.*

**PHYS 3401 ELECTRONICS**

On Demand

Study of the phenomena of electronics including the application of electronic devices. 3 hours lecture and 3 hours laboratory. *Prerequisite: PHYS 2302 and 2102. \$4 laboratory fee.*

**PHYS 3402 MODERN PHYSICS**

On Demand

Introduction to relativity, physics of atoms and solids and other topics in 20th century physics. 3 hours lecture and 3 hours laboratory. *Prerequisites: PHYS 2302 and 2102. \$4 laboratory fee.*

**PHYS 3403 DIGITAL ELECTRONICS**

On Demand

An introduction to electronic measurement, control and data manipulation using digital techniques. The course meets the needs of science majors in designing and using digital equipment and provides a background in the fundamentals of computer hardware. Microprocessors, their use, architecture, and methods of interfacing with measurement and control systems will be stressed. Primary emphasis will be placed on laboratory evaluation of circuits, devices, and techniques. 2 hours lecture and 4 hours laboratory per week. *Prerequisite: PHYS 3401 or consent of instructor. \$4 laboratory fee.*

**PHYS 4101 SENIOR LABORATORY**

Fall, Spring

The student performs experiments of greater complexity and difficulty than those in junior laboratory. In addition, the student is encouraged to design and carry out original experiments in his field of interest. 3 hours laboratory. *Prerequisites: PHYS 3101, 3102. \$4 laboratory fee.*

**PHYS 4102 SENIOR LABORATORY**

Fall, Spring

A continuation of PHYS 4101. *\$4 laboratory fee.*

**PHYS 4103 SENIOR LABORATORY**

Fall, Spring

A continuation of PHYS 4102. *\$4 laboratory fee.*

**PHYS 4301 TOPICS IN MODERN PHYSICS**

On Demand

A study of recent developments in physics including atomic energy, nuclear structure, X-rays, cosmic rays and radioactivity. 3 hours lecture. *Prerequisite: PHYS 2302 and 2102.*

**PHYS 4308 SEMINAR IN PHYSICS**

On Demand

Investigations of problems and progress in contemporary physics will be undertaken. Individual research and reporting will be emphasized. Courses may be repeated once for credit. *Prerequisite: One year of Physics and consent of instructor.*

**Department of Political Science***Dr. Jose R. Hinojosa, Chair***Full-time Faculty**

Bokina, John (PhD, University of Illinois, 1979), Professor, Political Theory, Western and Eastern Europe.

Freeman, Samuel (PhD, University of Kentucky, 1978), Associate Professor, Political Parties, U.S. Presidency, Congress, Foreign Policy.

Hinojosa, Jose R. (PhD, University of Notre Dame, 1980), Associate Professor, Public Administration, Minority Politics.

Lee, Kuo-Wei (PhD, University of Oregon, 1966), Associate Professor, Far Eastern Politics, International Politics and Organizations.



Maloy, T. Edwin (PhD, Indiana University, 1992), Assistant Professor, Public Policy and Administration, Public Fiscal and Finance Administration.

Mendenhall, Kurt (PhD, University of Texas at Austin, 1992), Assistant Professor, Politics of Middle East and North Africa and Politics of Developing Nations.

Morgan, Glynn (MA, University of Mississippi, 1961), Associate Professor, U.S. and Texas Politics.

Mounce, Gary (PhD, University of Texas at Austin, 1977), Associate Professor, Mexico, Central and South American Politics.

Polinard, J. L. (PhD, University of Arizona, 1970), Professor, Public Law, Minority Politics.

Tschoepe, Gary J. (PhD, University of Houston, 1992), Assistant Professor, Public Policy and Administration, Policy Analysis and Program Evaluation.

Wrinkle, Robert (PhD, University of Arizona, 1967), Professor, Public Policy, Urban Politics, Methodology.

Political Science majors and minors take courses in five fields:

1. American Government and Politics, including local, state, and national
2. Comparative Government and Politics
3. International Relations
4. Political Theory and Methodology, including scope and methods of political science, and
5. Public Administration.

The Political Science faculty and students are actively involved in such campus activities as pre-law, student government and other student political activities. Students majoring in Political Science may pursue active careers in Public Administration, Law, National, State and Local Government, Diplomatic Services, Journalism and Teaching.

### **Pre-Law**

There is no pre-law major at UT Pan American. Generally, any undergraduate major will offer the student the opportunity to prepare for law school; however, students interested in applying to law school should contact the admissions offices of the various law schools in which they are interested very early in their undergraduate studies. For further information please contact the Department of Political Science, 381-3341.

## **Degree Requirements**

### **Major in Political Science**

33 semester hours in Political Science. Must include POLS 1333, 2313 and 2314; 24 semester hours must be at the advanced level and must include 6 hours in American Government and Politics and 3 hours from each of the other four fields in Political Science: Comparative Government, International Relations, Political Theory and Methodology and Public Administration. Also required are the following:

1. 6 hours of advanced Political Science electives
2. 6 hours from TWO of the following THREE areas:
  - a. Introduction to Political Science (POLS 1333);
  - b. Introduction to Political Economy (POLS 2334);
  - c. Economics (ECO 1301, ECO 2353 or ECO 2354);
3. 3 hours of Introductory Statistics (MATH/STAT 2330 or PSY/SOC 2301 or MANA 2341)

### **Minor in Political Science**

18 semester hours in Political Science, of which 9 semester hours must be advanced, must include POLS 2313, 2314, 1333 or 2334.

### **Teacher Certification in Political Science**

*Secondary Plan I:* No certification plan is offered to Political Science minors. The student must major in Political Science to be certified to teach Political Science. See major requirements.

### **Teacher Certification in Social Sciences:**

*Secondary Plan II:* 48 semester hours in Social Sciences. Must include HIST 2313, 2314, 2333; POLS 2313, 2314; ECO 1301 or 2354; GEOG 2313 or 2301; and SOC 1313. 24 semester hours must be divided among advanced History and Political Science courses with not fewer than 9 semester hours in each field.

## Course Descriptions

### Political Science

#### **POLS 1333 INTRODUCTION TO POLITICAL SCIENCE**

(Texas Common Course Number is GOVT 2304.)

Fall, Spring

Emphasis on political fundamentals, public law, theory and organization of the modern state, political dynamics and institutions. Required of all Political Science majors and minors. Open to freshmen.

#### **POLS 2313 UNITED STATES AND TEXAS GOVERNMENT AND POLITICS**

(Texas Common Course Number is GOVT 2301.)

Fall, Spring, Summer

The origins and development of the American governmental system; U.S. and Texas constitutions; federal, state and interstate relations; the individual as a citizen, person and voter; political parties; civil rights and the judicial system. Fulfills 3 hours of the legislative requirements of 6 hours of American and Texas government. Open to freshmen.

#### **POLS 2314 UNITED STATES AND TEXAS GOVERNMENT AND POLITICS**

(Texas Common Course Number is GOVT 2302.)

Fall, Spring, Summer

A functional study of the American and Texas constitutions and governmental systems in relation to legislation, executive functions, administrative structures and functions; structures and functions of lesser units of government; financing governmental activities; foreign relations; governmental services and functions in the field of business, labor, agriculture, social welfare, public safety and conservation. Fulfills 3 hours of the legislative requirements of 6 hours of American and Texas government. Open to freshmen.

#### **POLS 2334 POLITICAL ECONOMY**

This course examines various economic models including private enterprise, capitalism, state capitalism and socialism; the impact of monetary and fiscal policy on the economy; and alternative viewpoints as to the appropriate extent of government regulation of the economy.

#### **POLS 2343 COOPERATIVE EDUCATION AND GOVERNMENT**

On Demand

This course is designed for students seeking political science credit through the cooperative education program provided the following conditions are met: (A) the student's project must be directly related to his/her major; (B) the student must be under direct academic supervision; (C) the student must complete written assignments to be evaluated by the supervising teacher; and (D) the student must undergo an oral examination administered by the major department. Credit applies as an elective only.

#### **POLS 2387 U.S. AND TEXAS GOVERNMENT AND POLITICS**

Fall

Honors Plan

The origins and development of the American governmental system; U.S. and Texas constitutions; federal-state and interstate relations; the individual as a citizen, person, and voter; political parties; civil rights and the judicial system. Fulfills 3 hours of the legislative requirements of 6 hours of American and Texas government. *Prerequisite: Admission to Honors Studies or by invitation.*

#### **POLS 2388 U.S. AND TEXAS GOVERNMENT AND POLITICS**

Spring

Honors Plan

A functional study of the American and Texas constitutions and governmental systems in relation to legislation, executive functions, administrative structures and functions; structures and functions of lesser units of government; financing governmental activities; foreign relations; governmental services and functions in the field of business, labor, agriculture, social welfare, public safety and conservation. Fulfills 3 hours of the legislative requirement of 6 hours of American and Texas government. *Prerequisite: Admission to Honors Studies or by invitation.*

#### **POLS 3185 INTERNSHIP**

On Demand

This course is designed for students seeking credit through an internship placement. The internship must be directly related to government; the student must be under direct academic supervision and the student must complete written assignments to

be evaluated by the supervising teacher. The course may be repeated for credit with a maximum of 4 hours counted as an elective toward fulfillment of the requirements for a major in Political Science. (Must receive approval from Political Science Department Chair.) *Prerequisite: POLS 2313, 2314.*

**POLS 3314 AMERICAN STATE AND LOCAL GOVERNMENT**

A study of the basic functions, structure, procedures and problems of American state and local government, with an emphasis upon intergovernmental relations. *Prerequisites: POLS 2313, 2314.*

**POLS 3316 AMERICAN PUBLIC POLICY**

An analysis of rationales underlying selected governmental programs and assessments of the effectiveness of these programs. *Prerequisites: POLS 2313, 2314.*

**POLS 3318 SPECIAL TOPICS**

On Demand

Significant issues and problems in politics and political systems. Course may be repeated for credit provided different topics are the focus of each class. (Does not count toward fulfillment of any of the five political science fields.) *Prerequisite: POLS 2313, 2314.*

**POLS 3322 POLITICS OF DEVELOPING NATIONS**

Analysis of political institutions and processes with focus on developing nations, such as those in Africa and the Middle East. *Prerequisites: POLS 2313, 2314.*

**POLS 3323 INTRODUCTION TO PUBLIC ADMINISTRATION**

A survey of public administration in the United States, highlighting a wide variety of topics in the discipline, but with emphasis upon the general machinery of the national bureaucracy and on the powers, problems and control of its agencies. *Prerequisites: POLS 2313, 2314.*

**POLS 3324 GOVERNMENT ORGANIZATION AND ADMINISTRATIVE THEORY**

An analysis of the various theories of public administration and government organization. The contribution of such theorists as Weber, Taylor, Mayo, McGregor, Maslow, Simon, and others will be studied. The development of public administration will be surveyed. *Prerequisites: POLS 2313, 2314.*

**POLS 3325 PUBLIC PERSONNEL ADMINISTRATION**

Fundamental concepts of public personnel management with analysis and evaluation of employee-employer relations at the national, state and local levels. Treats topics such as environmental influences on the personnel function, career systems, human resources planning and management, performance evaluation, ethics in public service, and collective bargaining. *Prerequisites: POLS 2313, 2314.*

**POLS 3331 METHODS OF POLITICAL SCIENCE RESEARCH**

Analysis of the study of politics, models of inquiry, research methods, and introduction to the use of computers in political science research. *Prerequisite: POLS 2313, 2314 (was GOVT 4331; may not be repeated for credit).*

**POLS 3333 CLASSICAL POLITICAL THEORY**

A study of classical political philosophy from Socrates to Machiavelli. *Prerequisite: POLS 2313, 2314.*

**POLS 3334 MODERN POLITICAL THEORY**

A study of political philosophy from Machiavelli to the end of the 19th Century. *Prerequisite: POLS 2313, 2314.*

**POLS 3343 INTERNATIONAL POLITICS**

A study of the political principles, problems and factors involved in the foreign policies and relations of the nation-state with particular emphasis on the sources and uses of national power and the difficulties in limiting the use of such power. *Prerequisites: POLS 2313, 2314.*

**POLS 3344 CONTEMPORARY POLITICAL THEORY**

A study of 20th century political philosophy. *Prerequisite: POLS 2313, 2314.*

**POLS 3360 AMERICAN MINORITY POLITICS**

An analysis of the political policies and techniques embraced by minorities in the American political system. Minorities studied include Mexican Americans, blacks and women. *Prerequisites: POLS 2313, 2314.*

**POLS 3363 AMERICAN HISPANIC POLITICS**

A study of the American Hispanic experience. Analyzes political socialization and culture, political participation and

behavior, leadership, organizations, and power in the American political system. *Prerequisites: POLS 2313, 2314.*

**POLS 3364 U.S.-MEXICO BORDER RELATIONS**

An analysis of the politics at the U.S.-Mexican border. Focus on the political economy and the administration of the borderlands. *Prerequisites: POLS 2313, 2314.*

**POLS 3365 POLITICS OF IMMIGRATION**

Analysis of the politics of immigration, migration and emigration. Study of the history, theories, and policy alternatives concerning immigration. The administration process, the legal and law enforcement systems of immigration will be examined. *Prerequisites: POLS 2313, 2314.*

**POLS 3371 SOVIET POLITICS**

An examination of applied Marxism through the study of the ideology, institutions and political processes of the Soviet Union. *Prerequisite: POLS 2313, 2314 (cannot be taken for degree credit if student has previously completed GOVT 3372).*

**POLS 4309 PUBLIC FISCAL ADMINISTRATION**

Survey and analysis of governmental budgeting and public finance, emphasizing theories, techniques, procedures and implementation. *Prerequisites: POL 2313, 2314.*

**POLS 4310 COMPARATIVE PUBLIC ADMINISTRATION**

On Demand

A comparative analysis of the administrative systems of different governments. Particular attention is focused on the relationship of administrative practices and decision-making processes in the various states. *Prerequisites: POLS 2313, 2314.*

**POLS 4313 COMPARATIVE GOVERNMENTS: WESTERN DEMOCRACIES**

A study of the major democracies of Europe: Great Britain, France, Germany, Italy, low countries, Scandinavian countries, Switzerland and Austria. A comparative study of peoples and their institutions. *Prerequisites: POLS 2313, 2314.*

**POLS 4320 AMERICAN CONSTITUTIONAL LAW: FEDERALISM**

A study of the allocation of government powers by use of court cases, with special emphasis on the national government and an introduction to the judicial functions of the American legal system. *Prerequisites: POLS 2313, 2314.*

**POLS 4321 AMERICAN CONSTITUTIONAL LAW: CIVIL LIBERTIES**

A study of the limitations of governmental powers in the United States by use of court cases, with primary emphasis on civil and political rights. *Prerequisites: POLS 2313, 2314.*

**POLS 4332 AMERICAN POLITICAL THEORY**

An analysis of American political theory and values from the Colonial period to the present. The work of Jefferson, Jackson, Calhoun, Bellamy, Hoover and Galbraith are included. *Prerequisites: POLS 2313, 2314.*

**POLS 4353 INTERNATIONAL ORGANIZATION**

An analysis of the judicial-political foundations. Actual machinery and activities of the principal international organizations, particularly the United Nations and related bodies. An appreciation of their achievements toward international peace. *Prerequisites: POLS 2313, 2314.*

**POLS 4360 AMERICAN EXECUTIVE PROCESS**

Advanced study of the development of the power and influence of the president and other American executives; procedures and politics of the executive process; executive policy outputs; the relation of the executive to the other elements of the political system. *Prerequisites: POLS 2313, 2314.*

**POLS 4363 AMERICAN LEGISLATIVE PROCESS**

Advanced study of the legislative process; structure, powers, organization, political control and procedures of Congress, state legislatures and local legislative bodies in the rest of the political system. *Prerequisites: POLS 2313, 2314.*

**POLS 4365 AMERICAN ADMINISTRATIVE PROCESS**

Advanced study of law and procedures of national, state and local administrative agencies and their behavior; problems in administrative management; theory of complex organizations; policy outcomes of the administrative process. *Prerequisites: POLS 2313, 2314.*

**POLS 4367 AMERICAN JUDICIAL PROCESS**

Advanced study of the structure, functions and procedures of the national, state and local judicial systems; the interrelation-

ship between the American judiciary and other components of the political system; the impact of judicial decision-making on public policy. *Prerequisites: POLS 2313, 2314.*

**POLS 4373 AMERICAN POLITICAL PARTIES AND POLITICS**

A study of the history, organization, function and leadership of political parties and the role they play in the operation of national, state and local governments in the United States and a study of the role of group politics and voting behavior in the American political process. *Prerequisites: POLS 2313, 2314.*

**POLS 4375 AMERICAN FOREIGN POLICY**

Study of the politics, formulation, conduct and consequences of U.S. foreign policy. The roles of the president, Congress, interest groups, political parties, the military and intelligence agencies and public opinion are examined. Specific cases of major foreign policy decisions to be examined. *Prerequisites: POLS 2313, 2314.*

**POLS 4382 GOVERNMENTS AND POLITICS OF CHINA, JAPAN AND INDIA**

Study of the socio-economic setting, constitutional framework, political forces, authoritative decision-making agencies and certain major policy outputs of China, Japan and India. *Prerequisites: POLS 2313, 2314.*

**POLS 4383 POLITICS OF CENTRAL AMERICA AND THE CARIBBEAN**

A survey of governmental structures and politics in Central America and the Caribbean. Examines competing ideologies, group developments, party interests, influence of revolution, relationships among political, social and economic structures and Latin America's role in the world political arena. *Prerequisites: POLS 2313, 2314 (was GOVT 3383, may not be repeated for credit).*

**POLS 4384 SEMINAR IN LOCAL GOVERNMENT PROBLEMS**

An examination and study of administrative problems in local government. *Prerequisites: POLS 2313, 2314.*

**POLS 4386 SOUTH AMERICAN POLITICS**

A survey of governmental structures and politics in South America. Examines competing ideologies, group developments, party interests, influence of revolution, relationship between political, social and economic structures and South America's role in the world political arena. *Prerequisite: POLS 2313, 2314.*

**POLS 4387 POLITICS OF MEXICO**

A study of the politics and government of Mexico focusing on the political system in the context of history and culture. Study of Mexico's relations with the U.S. and other nations. *Prerequisites: POLS 2313, 2314.*

**POLS 5360 AMERICAN EXECUTIVE PROCESS AND POLICY OUTPUTS**

Advanced study of the development of the power and influence of the president and other American executives; procedures and policies of the executive process; executive policy outputs; the relation of the executive to the other elements of the political system.

**POLS 5367 AMERICAN JUDICIAL PROCESS**

Advanced study of the structure, functions and procedures of the national, state and local judicial systems, the interrelationship between the American judiciary and other components of the political system; the impact of judicial decision-making on public policy.

**POLS 5386 POLITICS OF SOUTH AMERICA**

A survey of governmental structures and politics in South America. Examines the political processes and their relationship to existing social and economic structures of South America.

**Master of Public Administration (MPA) Degree Graduate Program**

The Department of Political Science offers graduate study toward a Master of Public Administration (MPA) degree. The MPA is intended to be a professional preparation program for public service in governmental agencies at the federal, state, regional and local levels. The requirements for admission to this program are as follows:

1. Must hold a bachelor's degree or its equivalent from a college or university accredited by the regional accrediting association in which the institution is located.
2. Clear Admission: Must meet the following admission criteria –
  - a. The applicant must have a 3.0 grade point average (GPA) or more on a 4.0 scale and provide a minimum composite Graduate Record Examination (GRE) score of 600 or more (sum of verbal and quantitative) or provide a minimum Graduate Management Admissions Test (GMAT) score of 350 or more, or
  - b. The applicant must have a composite score of 1000 or more on the GRE or a GMAT score of 470 or more and have completed all transcript requirements, or

- c. The applicant must meet requirements for changing "probationary" to "clear," or
  - d. The applicant must hold a master's degree from an accredited university and have completed all transcript requirements.
3. **Probationary Admission:** An applicant who does not meet clear admission requirements but has a score of 1200 or more, based upon the following formula: 200 times the grade point average (GPA) plus the sum of the verbal and quantitative part of the Graduate Record Examination (GRE), will be granted probationary admission. An entrance score must be met prior to registration. A probationary admission applicant is limited to a maximum of 12 semester hours. When the applicant has earned 9 or more graduate hours and has a 3.0 GPA or better, the applicant's admission status will be changed to clear admission.
  4. **Denied Admission:** An applicant is denied admission for failure to meet admission requirements. The "Denied Admission" status of an applicant can be altered by meeting admission requirements such as improving GRE scores and/or grade point average (GPA).
  5. **Program Continuation:** When a grade of "C" or lower is received in three or more courses in the program (even if the course is repeated and a higher grade is received), a master's candidate is ineligible to continue in the program or to take the comprehensive examination.

## Degree Requirements

The Master of Public Administration (MPA) graduate degree requires successful completion of 39 total graduate semester credit hours.

### 1. Prerequisite

If a student does not have an academic background in public administration or political science, the student must take POLS 6301 The Public Administration Profession (3 semester hours), which cannot be counted toward degree requirements. Students whose academic preparation in public administration or political science is deficient may be required to do additional "leveling" coursework before clear admission to the program.

### 2. Core

Students will be required to take 18 semester hours of core courses. These include 3 semester credit hours (SCH) covered by POLS 6302 Graduate Seminar in Public Administration, and five other core courses in the five program areas recommended by the National Association of Schools of Public Affairs and Administration (NASPAA). The five program areas and the five core courses are:

- NASPAA Area A — Political-Social-Economic Environment
  - POLS 6305 Problems in State & Local Government
- NASPAA Area B — Public Policy Analysis
  - POLS 6312 Policy Implementation and Program Evaluation
- NASPAA Area C — Managerial Processes
  - POLS 6321 Public Personnel Administration
- NASPAA Area D — Analytical Tools
  - POLS 6330 Scope and Methods in Public Administration
- NASPAA Area E — Individual-Group-Organizational Behavior
  - POLS 6341 Decision-Making and Management in Public Organization

### 3. Designated Electives (specialization)

Students will then take 12 semester credit hours of courses supportive of study within the discipline. The courses may be taken from the five NASPAA program areas. Six hours may be taken outside the department in approved graduate-level courses.

The following four courses are suggested for the 12 semester credit hours of designated electives or specialization:

- POLS 6304 Intergovernmental Relations
- POLS 6311 The Formulation of Public Policy
- POLS 6320 Public Finance Administration
- POLS 6342 Bureaucracy and Organization Theory

### 4. Free Electives

No free electives are advisable.

### 5. Other Courses

Students who do not have work experience in public administration will be required to complete a 3-semester-hour "Internship." This course is POLS 6325 The Internship. (Students employed full-time in the public sector may use their present position as the basis for their internship experience if they successfully take POLS 6325.)

Each candidate for the MPA must successfully complete either a Thesis, POLS 7300-7301 (6 hours), or an Applied Research Grant Project, POLS 7302-7303 (6 hours). Each student must successfully complete either the thesis or the applied research grant project by defending it publicly with the acceptance of the supervisory instructor and two additional reviewers.

## 6. *Final Requirements*

After a student has successfully completed the 39 hours, he or she becomes a candidate for the Master of Public Administration (MPA) degree and must successfully complete an oral and written comprehensive examination. The final comprehensive examination will be administered by the supervisory instructor and two additional faculty members.

## Course Descriptions

### Public Administration

#### **POLS 6301 THE PUBLIC ADMINISTRATION PROFESSION**

A survey of the theories and practices which form the foundation of public administration in the United States. Prerequisite for beginning graduate students who have no academic background in public administration or who have no practical experience in public service. Will not count for credit toward the 39 hours for the Master of Public Administration (MPA) degree.

#### **POLS 6302 GRADUATE SEMINAR IN PUBLIC ADMINISTRATION**

An introduction to the concepts, theories, literature, research, and analytical methods of public administration. Required of all MPA graduate students. *Prerequisite: POLS 6301 or Instructor's permission.*

#### *NASPAA Area A: Political-Social-Economic Environment*

#### **POLS 6304 INTERGOVERNMENTAL RELATIONS**

Analysis of political, administrative, and fiscal relationships among governments in the American political system. The constitutional and theoretical basis for federalism; national-state-local government relations, and regional arrangements.

#### **POLS 6305 PROBLEMS IN STATE AND LOCAL GOVERNMENT**

An analysis of the basic problems of American state and local government, with an emphasis on administrative problems and issues in state, county and local governments.

#### *NASPAA Area B: Public Policy Analysis*

#### **POLS 6311 THE FORMULATION OF PUBLIC POLICY**

An analysis of the impact of public policy on the political environment. Several policies will be studied and analyzed regarding their formulation and their implementation.

#### **POLS 6312 POLICY IMPLEMENTATION AND PROGRAM EVALUATION**

An advanced course with the application of quantitative methods to the evaluation of public policies and programs regarding their implementation.

#### *NASPAA Area C: Managerial Processes*

#### **POLS 6320 PUBLIC FINANCE ADMINISTRATION**

Analysis of the formation, management and administration of fiscal policies at all levels of government in the United States. The budgeting process and the practice of resource allocation will be studied.

#### **POLS 6321 PUBLIC PERSONNEL ADMINISTRATION**

Analysis of the major personnel management problems and issues in government. The recruitment, selection, development, advancement, and evaluation of personnel will be examined. Employee-employer relations, affirmative action, collective bargaining, interpersonal and ethical relationships will be studied.

#### *NASPAA Area D: Analytical Tools*

#### **POLS 6330 SCOPE AND METHODS IN PUBLIC ADMINISTRATION**

Analytical methods, research techniques, and models of inquiry in the study of public administration.

#### *NASPAA AREA E: Individual-Group-Organization Behavior*

#### **POLS 6341 POLITICAL LEADERSHIP: DECISION-MAKING AND MANAGEMENT IN PUBLIC ORGANIZATIONS**

The study of political leadership; its various styles and types. Emphasis on the skills, characteristics, and situations that contribute to the development of political leadership and decision-making.

### **POLS 6342 BUREAUCRACY AND ORGANIZATIONAL THEORY**

The study of the various theories of organization and organizational behavior. An analysis of the theories and practices of governmental organization and functions.

#### ***Required for Graduation:***

### **POLS 6325 THE INTERNSHIP**

The practical public management experience through an arranged internship in a government or non-profit agency for one semester. Periodic seminars and supervisor-intern consultations will be held, with a final administrative report required.

*Prerequisite: Consent of Director.*

### **POLS 7300 & 7301 THESIS**

The thesis requires the student to carry out an individual research project under the direction and supervision of a graduate faculty member. The thesis will be defended publicly after it has been tentatively approved by the supervising instructor and two additional readers.

### **POLS 7302 & 7303 APPLIED RESEARCH GRANT PROJECT**

A problem-oriented and applied research grant project to fulfill the non-thesis option in the Master of Public Administration degree. The thesis or applied research grant project requires the student work under the direction and supervision of a graduate faculty member. The student will prepare a prospectus to include a statement of the problem, research design, specification of data, questions to be answered, and a representative bibliography, and submit it to the supervising instructor prior to registration. The thesis or the applied research grant project will be defended publicly after it has been tentatively approved by the supervising instructor and two additional readers.

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## **Pre-Law**

See Department of Political Science

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## **Department of Psychology and Anthropology**

*Dr. Valerie James-Aldridge, Chair*

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### **Psychology**

#### **Full-time Faculty**

- Alamia, Alfonso J. (PhD, University of New Mexico, 1985), Assistant Professor, Developmental, Adolescence, Behavior Modification, Bilingual Testing.
- Aldridge, James W.,\* Jr. (PhD, State University of New York at Binghamton, 1976), Professor, Perception, Cognition, Memory.
- Arnold, Bill R.\* (PhD, North Texas State University, 1976), Professor, Counseling and Rehabilitation and Clinical Neuropsychology.
- Cain, Roy E.\* (PhD, Texas Tech, 1972), Associate Professor, Physiological Psychology, Biofeedback, Psycho-physiology, Stress Management.
- Cuellar, Israel\* (PhD, University of Texas at Austin, 1977), Assistant Professor, Community, Cross-Cultural.
- Gonzalez, Genaro (PhD, University of California at Santa Cruz, 1982) Assistant Professor, Social, Cross-Cultural.
- James-Aldridge, Valerie G.\* (PhD, Oklahoma State University, 1975) Associate Professor and Chair, Animal Behavior, Primate Behavior, Research in Zoos.
- Kendrick, Sherrill\* (PhD, University of Southern Mississippi, 1974), Assistant Professor, Clinical, Behavior Modification.
- Levine, Bert D.\* (PhD, University of Texas at Austin, 1953), Professor, Personality Theories, Abnormal Behavior, Adjustment.
- Montgomery, Gary T.\* (PhD, Texas Tech University, 1972), Professor, Developmental, Psychophysiology.



Winkel, Mark H.\* (PhD, Oklahoma State University, 1982), Associate Professor, Cognitive Social Psychology, Law and Psychology.

Wisener, Robert H. III,\* (EdD, University of Northern Colorado, 1975), Assistant Professor, School, Clinical.

#### \*Graduate Faculty

A major is offered in psychology with either a Bachelor of Arts or a Bachelor of Science degree. A demand exists for undergraduate psychology majors in public and private agencies dealing with human relations.

However, the more challenging and specialized fields in psychology usually require further study beyond the bachelor's degree. High academic standards are required of those students planning to do graduate work, and the BS program is designed to ensure that students planning further study acquire a background that will maximize their chances of success in graduate school. Training in research methods, statistics, and theory are required of all majors. According to their own interests, majors take further courses in the areas of clinical, experimental, community, social and developmental psychology. Students pursuing the BS degree also take further courses in the natural sciences and computer science. Whenever possible, students are involved in the many ongoing research programs of the department, giving them practical experience in the discipline.

In addition, the department offers a minor in psychology.

## Degree Requirements

### Major in Psychology (BA Degree):

30 semester hours in Psychology of which 15 hours must be advanced; must include PSY 1313 or 1387, 1323 or 1388, 2301, 2325, 3343, 4313.

### Major in Psychology (BS Degree):

36 semester hours in Psychology of which 18 hours must be advanced; must include:

PSY 1313 or 1387; 1323 or 1388; 2301; 2325; 3343;

PSY 4313 or 4333; 3353 or 3373; 4319 or 4320; 4318 or 4363 (a total of 12 hours)

Select one from PSY 2324, 2335, 2336, 2337, 3326, 3333 (a total of 3 hours)

Select one from PSY 2345, 2340, 3305, 3331, 3340, 4353 (a total of 3 hours)

One 3-hour PSY ELECTIVE

Select two sequences from: (total of 16 hours)

a. Physics 1401, 1402

b. Biology 1401, 1402

c. Chemistry 1401, 1402

Select one additional Physics, Biology or Chemistry course which is sophomore (2000) level or higher, or a Computer Science course above CS 1300.

### Minor in Psychology:

18 semester hours in Psychology of which 6 must be advanced; must include PSY 1313 or 1387, and 1323 or 1388.

## Course Descriptions

### Psychology

#### PSY 1313 INTRODUCTION TO PSYCHOLOGY

An introduction to the study of mental processes. Topics include: the scientific methods used in psychology; the scope and goals of psychology, the influences of heredity, physiology and environment; and the conditions governing learning, memory, sensation and perception.

#### PSY 1323 GENERAL PSYCHOLOGY

(Texas Common Course Number is PSYC 2301.)

Emphasis is on emotions and motives, the normal and abnormal personality, individual differences, the child, the adult and society.

#### PSY 1387 INTRODUCTORY PSYCHOLOGY (HONORS PLAN)

Emphasis is placed upon research methods, the brain and nervous system, perception, states of awareness, and learning.

*Prerequisite: Admission to Honors Studies or by invitation.*

#### PSY 1388 GENERAL PSYCHOLOGY (HONORS PLAN)

Emphasis is placed upon intelligence, personality, motivation, vocational choice and the application of psychological principles to behavioral problems. *Prerequisite: Admission to Honors Studies or by invitation.*

**PSY 2301 BASIC STATISTICS FOR PSYCHOLOGISTS**

(Texas Common Course Number is PSYC 2317.)

A practical study of the procedures used in handling psychological data including descriptive statistics, central tendency, variation, correlation and inference. May be counted as Anthropology 2301. *Prerequisite: MATH 1340 or higher (except MATH 2306) and 6 hours of the following: PSY 1313, PSY 1323, ANTH 1323, 1324 OR 2342.*

**PSY 2324 SOCIAL PSYCHOLOGY**

(Texas Common Course Number is PSYC 2319.)

A study of psychological and sociological principles as they relate to human social behavior. Relevant areas of theory and research in social psychology will be covered. *Prerequisite: 6 hours from the following: PSY 1313, 1323, SOC 1313, 1323.*

**PSY 2325 EXPERIMENTAL PSYCHOLOGY**

Lecture-laboratory approach in illustrating the techniques of psychological research. *Prerequisite: PSY 1313, 1323, and 2301 or STAT 2330.*

**PSY 2331 PSYCHOLOGY OF DISABILITY**

Provides a survey of psychological aspects of disability, with emphasis on physical disability. Includes an overview of research areas and findings. Describes major disability groups, and the general psychological processes that are observed in patients and their families as they react and adjust to their disabilities.

**PSY 2335 DEVELOPMENTAL PSYCHOLOGY: INFANCY AND CHILDHOOD**

(Texas Common Course Number is PSYC 2308.)

A study of the physical, mental, emotional and social growth from conception through childhood. *Prerequisite: PSY 1313.*

**PSY 2336 DEVELOPMENTAL PSYCHOLOGY: ADOLESCENCE**

(Texas Common Course Number is PSYC 2307.)

A study of the physical, mental, emotional and social growth from childhood through adolescence. *Prerequisite: PSY 1313 or 1323.*

**PSY 2337 PSYCHOLOGY OF LIFESPAN DEVELOPMENT AND AGING**

(Texas Common Course Number is PSYC 2314.)

An overview of the cognitive, social-role and motivation changes that occur with age from a psychological/developmental viewpoint. *Prerequisite: PSY 1313 or PSY 1323.*

**PSY 2340 PSYCHOLOGY OF SUBSTANCE ABUSE**

An introduction to the field of substance abuse and the knowledge of psychological and physiological effects of substance abuse. The course provides an historical overview of the evolving attitudes, values, and treatment approaches to substance abuse. It will also review current state-of-the-art research on the primary prevention of substance abuse and innovations in service delivery, such as employee assistance programs.

**PSY 2345 PSYCHOLOGY OF LEARNING**

An introduction to the methods, results and interpretations of experimental studies of learning. Emphasis will be placed on classical and instrumental conditioning procedures. *Prerequisite: PSY 1313.*

**PSY 3305 BEHAVIOR MANAGEMENT AND MODIFICATION**

An overview of existing behavioral control techniques for the remediation and prevention of problem behaviors and for the optimization of normal behaviors in real life settings. Contrasting therapeutic approaches will be examined as well as the ethics of behavior control and the impact of behaviorism on 20th century man. *Prerequisite: PSY 1313 and 1323.*

**PSY 3326 CONTEMPORARY ISSUES IN SOCIAL PSYCHOLOGY**

A review and discussion of recent issues and advances in social psychology. Focuses on contemporary concerns with regard to both theory and research in the laboratory and the community. May be counted as PSY 3326 or SOC 3326. *Prerequisite: PSY 2324 or SOC 2324.*

**PSY 3333 PSYCHOLOGY OF ADULTHOOD: MATURITY AND OLD AGE**

A study of such aspects of adulthood as job selection, marriage, child rearing and old age. *Prerequisite: PSY 1313 and 1323.*

**PSY 3340 STRESS MANAGEMENT**

This course introduces the student to a wide variety of stress reduction techniques and their implications for health. Practical experiences as well as research in such areas as biofeedback, relaxation training and meditation are provided. *Prerequisites: PSY 1313 and 1323.*

**PSY 3343 TESTS AND MEASUREMENTS IN PSYCHOLOGY**

Concentrates on the theoretical aspects of test construction and on extensive survey of the major types of standardized tests used in industry, schools and mental health settings. *Prerequisites: PSY 1313, 1323, 2301.*

**PSY 3353 PHYSIOLOGICAL PSYCHOLOGY**

An analysis of the basic physiological mechanisms underlying behavior with emphasis on the role of the central nervous system in sensation, emotion, motivation, learning and memory. A knowledge of biology is helpful but not necessary. *Prerequisites: PSY 1313, 1323.*

**PSY 3373 SENSATION AND PERCEPTION**

A study of the basic mechanisms underlying sensation and perception. Experimental methods, research findings and theory are emphasized. *Prerequisites: PSY 1313, 1323.*

**PSY 3383 INTRODUCTION TO ANIMAL BEHAVIOR**

An introduction to the methods, results, and interpretation of studies of animal behavior from the perspectives of comparative psychology and ethology. An emphasis will be placed on social and communicative behavior. *Prerequisite: PSY 1313.*

**PSY 3384 PRIMATE BEHAVIOR**

A review of the behavior of selected representatives of the order Primates, based upon research conducted in both laboratory and field. In addition, students will collect data on a representative primate group at the Gladys Porter Zoo. May be counted as ANTH 3384. *Prerequisites: PSY 1313 and 3383 or consent of instructor.*

**PSY 4312 FEMALE AND MALE**

An examination of the physiological, psychological influences of sex role development including such topics as human liberation, sexual behavior, child rearing practices and career opportunities. *Prerequisite: 9 hours of psychology or consent of instructor.*

**PSY 4313 ABNORMAL PSYCHOLOGY**

A comprehensive analysis of various emotional disorders, neuroses and psychoses, their symptoms, etiologies and treatment and approaches. *Prerequisites: PSY 1313, 1323.*

**PSY 4318 THEORIES OF LEARNING**

A historical review of major theoretical positions in the field of animal and human learning. *Prerequisites: PSY 1313, 1323, or consent of instructor.*

**PSY 4319 COGNITIVE PROCESSES**

The experimental study of conscious, voluntary mental processes. Topics include recognition of written words and other patterns, recognition of speech and comprehension of language, limits on ability to divide attention, concept formation, problem solving, and reasoning. Emphasis is on adult processes rather than on development of the processes in children. *Prerequisites: PSY 1313, 1323.*

**PSY 4320 MEMORY**

The experimental study of the acquisition, storage, retrieval, and forgetting of verbal information. Emphasis is on basic research and theory about adult processes, and little consideration is given to either applications or development of the processes in children. *Prerequisites: PSY 1313, 1323.*

**PSY 4326 CROSS-CULTURAL PSYCHOLOGY**

The course examines how culture shapes our cognition and behavior. In addition to exploring intercultural contact and cross-cultural research methods, the following areas in psychology are analyzed from a cross-national perspective: perception, cognition, human development, attitudes and interpersonal relations. *Prerequisites: PSY 1313, 1323.*

**PSY 4328 PSYCHOLOGICAL ISSUES IN THE MEXICAN-AMERICAN COMMUNITY**

Mexican-American personality development and assessment, ethnic identity and acculturation are examined in the course, as are Chicano perceptions of abnormal conduct and the use of alternative therapists. Selected community issues, such as immigration and prosocial behavior, are also explored from a psychological perspective. *Prerequisites: PSY 1313, 1323.*

**PSY 4333 THEORIES OF PERSONALITY**

Emphasis is placed on the major theories of personality which attempt to explain the psychological nature and behavior of people. Some consideration is given to the process involved in developing a theory of personality. *Prerequisites: PSY 1313, 1323.*

**PSY 4353 INTRODUCTION TO CLINICAL PSYCHOLOGY**

A comprehensive overview of clinical psychology. This course covers its history, diverse theoretical orientations, functions and problems. Both theory and research are emphasized. *Prerequisite: PSY 4313 or 4333.*

**PSY 4355 PSYCHOLOGY AND MYTHOLOGY**

This course will study the impact and interrelationships of psychological thought and mythological theory. The impact of the theories of Freud, Adler, Jung, Levi-Strauss and others on mythology will be studied. May be counted as ANTH 5355.

*Prerequisites: PSY 1323 or ANTH 1323 or ANTH 2353 or instructor's consent.*

**PSY 4363 SYSTEMS AND THEORIES IN PSYCHOLOGY**

A history of the development of psychology and a study of theories in contemporary psychology. *Prerequisites: PSY 1313, 1323.*

**PSY 4383 SPECIAL PROBLEMS**

Selected topics assigned according to the interest of the class and/or student. Sequential registration for up to 9 hours is permitted as topics vary. *Prerequisite: 9 hours of Psychology and consent of instructor.*

**PSY 5355 PSYCHOLOGY AND MYTHOLOGY**

This course will study the impact and interrelationships of psychological thought and mythological theory. The impact of the theories of Freud, Adler, Jung, Levi-Strauss and others on mythology will be studied. May be counted as ANTH 5355.

*Prerequisites: PSY 1323 or ANTH 1323 or ANTH 2353 or instructor's consent.*

**PSY 6300 SYSTEMS AND THEORIES IN PSYCHOLOGY**

A history of the development of psychology and a study of the theories in contemporary psychology. *Prerequisites: Graduate standing and 6 semester hours of psychology and/or consent of the instructor.*

**PSY 6305 ADVANCED STUDIES IN PSYCHOPATHOLOGY**

A study of the classification, etiology and treatment of abnormal behaviors. Supporting outside readings will be emphasized.

*Prerequisites: Graduate standing and 6 semester hours of psychology and/or consent of instructor.*

**PSY 6311 ADVANCED STUDIES IN PERSONALITY THEORY**

A study of the development, structure, and assessment of personality, with consideration of the major theoretical attempts to account for the psychological nature and behavior of man. Supporting outside readings will be emphasized.

*Prerequisites: Graduate standing and 6 semester hours of psychology and/or consent of instructor.*

**PSY 6315 ADVANCED BEHAVIOR MANAGEMENT**

Principles and techniques of modifying behaviors across therapeutic and natural settings. Following a review of classical and operant conditioning techniques, focus is on self-management skills and cognitive-behavioral procedures.

*Prerequisites: Graduate standing and 6 semester hours of psychology and/or consent of instructor.*

**PSY 6320 CURRENT PERSPECTIVES IN PHYSIOLOGICAL PSYCHOLOGY**

In-depth study of the relationship between biological events and behavior. Emphasis is placed on the physiological substrates of learning, memory, emotion, and motivation. *Prerequisites: Graduate standing and 6 semester hours of psychology and/or consent of instructor.*

**PSY 6325 THEORETICAL ISSUES IN LEARNING**

A survey of theoretical perspectives in learning and memory. Historical as well as contemporary issues will be emphasized.

*Prerequisites: Graduate standing and 6 semester hours of psychology and/or consent of instructor.*

**PSY 6330 ADVANCED STUDIES IN CHILD DEVELOPMENT**

A survey of the major theoretical traditions in child development through adolescence, with application to selected areas to illustrate the theories. *Prerequisites: Graduate standing and 6 semester hours of psychology and/or consent of instructor.*

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**Anthropology**

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**Full-time Faculty**

Glazer, Mark\* (PhD, Northwestern University, 1973), Professor, Folklore, Anthropological Theory.

Pozorski, Shelia\* (PhD, University of Texas at Austin, 1976), Associate Professor, New World Archaeology, Archaeological Method and Theory, Ethnobiology, Museum Studies.

Pozorski, Thomas\* (PhD, University of Texas at Austin, 1976), Associate Professor, New World Archaeology, South American Culture, Complex Societies.

Schaefer, Stacy (PhD, University of California at Los Angeles, 1990), Assistant Professor, Ethnography, Indigenous Cultures of the Americas, Mexican Culture, Symbolic Anthropology, the Arts.

#### \*Graduate Faculty

The primary focus of both the major and minor is on anthropology as a broad-based discipline, with special emphasis on cultural anthropology, physical anthropology, archaeology and folklore. Special topics courses are also available in advanced folklore, anthropological theory and methods and New World archaeology.

A major or minor in anthropology is particularly appropriate for professionals who plan to practice in South Texas, or a comparable area made special by the meeting of different cultures. Anthropology also provides an excellent preparation for careers in international business, government, politics, criminal justice, social work and medicine or other health-related professions. The more specialized fields in anthropology usually require further study beyond the Bachelor's degree.

#### Major in Anthropology:

36 semester hours in Anthropology of which 18 must be advanced; must include:

ANTH 1323 Introduction to Cultural Anthropology

ANTH 1324 Human Evolution

ANTH 2342 Introduction to Archaeology

ANTH 2353 Introduction to Folklore

ANTH 4345 Anthropological Theory and Methodology

Students majoring in anthropology may select one course (3 semester hours) from the following list of related courses to count toward fulfilling the requirement of 36 hours for a major in anthropology.

#### Related courses:

ENG 3319 Descriptive Linguistics

ENG 3321 Language and Culture

#### Minor in Anthropology:

18 semester hours in Anthropology, of which 6 hours must be advanced; must include ANTH 1323, 1324, and 4345.

### Course Description

#### Anthropology

##### ANTH 1323 INTRODUCTION TO CULTURAL ANTHROPOLOGY

An introduction to cultural anthropology. Major aspects of culture (social organization, economics, religion, etc.), cultural patterns and socio-cultural change are emphasized.

##### ANTH 1324 HUMAN EVOLUTION

An introduction to human evolution, hominid morphology, human variation, and prehistoric development, a survey of the biological and cultural evolution of human beings to the present.

##### ANTH 2301 BASIC STATISTICS FOR ANTHROPOLOGISTS

A practical study of the procedures used in handling psychological and sociological data including descriptive statistics, central tendency, variation, correlation and inference. May be counted as PSY 2301. *Prerequisites: MATH 1340 and 6 hours from the following: ANTH 1323, 1324, 2342; PSY 1313, 1323; SOC 1313, 1323.*

##### ANTH 2323 MEXICAN-AMERICAN CULTURE

An introduction to the culture and tradition of Mexican Americans. The cultural history, organization of the family, traditions, lifestyle, kinship patterns, values, and social organization of Chicano culture will be emphasized.

##### ANTH 2342 INTRODUCTION TO ARCHAEOLOGY

General introduction to the field of archaeology. Emphasis on methods of data collection, analysis, and a world review of major events in the development of past human civilizations.

##### ANTH 2353 INTRODUCTION TO FOLKLORE

General introduction into the field of folklore data including collection, preservation, analysis and interpretation according to the main social science theories of folklore. Emphasis on folk music, narrative, drama, art, medicine and material culture.

**ANTH 3343 MUSEUM STUDIES**

Provides students with practical, "hands on" experience through active participation in museum work alongside museum professionals. While performing a variety of tasks, each student will receive instruction concerning key features common to  
*Prerequisite: ANTH 2342 or consent of instructor.*

**ANTH 3344 ARCHIVE STUDIES**

Students gain practical, first-hand experience by actively working alongside professionals within a variety of archival situations. While working with collections as diverse as photographic archives, historic documents and newspapers, and the computerized Rio Grande Valley Folklore Archive, each student will receive instruction in proper policies and procedures for the collection, study, cataloging, and conservation of archive materials. *Prerequisites: 6 hours of anthropology and consent of instructor.*

**ANTH 3351 COMPARATIVE MYTHOLOGY**

A cross-cultural examination of the mythologies of pre-literate and literate cultures. Greek, Hebrew, Indian, Mesoamerican and North American Indian mythologies and major theoretical approaches in the study of myth will be surveyed in this course. *Prerequisite: ANTH 1323 or ANTH 2353 or consent of instructor.*

**ANTH 3363 ARCHAEOLOGICAL METHOD AND THEORY**

Reviews major theoretical orientations from an historical perspective with an emphasis on current approaches. Examines major aspects of archaeological methodology including excavation and laboratory procedures, sampling strategy, dating techniques, and floral and faunal analysis. *Prerequisite: ANTH 2342 or consent of instructor.*

**ANTH 3368 PEOPLES OF SOUTH AMERICA**

A study of societies native to the South American continent from the time of the first Western contact to the present. Considerable emphasis is placed on their interactions with environments as diverse as the high Andes and the Amazon basin. *Prerequisite: ANTH 1323 or consent of instructor.*

**ANTH 3375 MEXICAN-AMERICAN FOLKLORE**

This course is designed to introduce Mexican American folklore. The course includes the study of Chicano legends, folktales, riddles, folk music, ballads, and festivals. Students have the opportunity to learn how to collect and archive folklore materials. *Prerequisite: ANTH 2353 or consent of instructor.*

**ANTH 3384 PRIMATE BEHAVIOR**

A review of the behavior of selected representatives of the order Primates, based upon research conducted both in the laboratory and in the field. In addition, students will collect and analyze data on a representative primate group at the Gladys Porter Zoo in Brownsville. May be counted as PSY 3384. *Prerequisites: PSY 1313, 3383 or consent of instructor*

**ANTH 4345 ANTHROPOLOGICAL THEORY AND METHODOLOGY**

Instruction in the methodology (interviewing, participant observation, network analysis, etc.) and theoretical perspectives of anthropology. *Prerequisite: 6 hours of anthropology.*

**ANTH 4348 PEOPLES AND CULTURES OF MEXICO**

This course provides an introduction to the diverse peoples and cultures of Mexico and Central America. The traditions, beliefs, and practices of different cultures will be examined through an emphasis on the ethnography and ethnohistory of indigenous cultures of the region. *Prerequisite: 6 hours anthropology or consent of instructor.*

**ANTH 4353 FOLKLORE OF THE LOWER RIO GRANDE VALLEY**

A field research approach to the folklore of the Valley. A review of the legends, fairy tales, ballads, proverbs, riddles, and folklife of the Lower Rio Grande Valley. *Prerequisite: ANTH 2353 or 3375.*

**ANTH 4355 PSYCHOLOGY AND MYTHOLOGY**

This course will study the impact and interrelationships of psychological thought and mythological theory. The impact of the theories of Freud, Adler, Jung, Levi-Strauss and others on mythology will be studied. *Prerequisites: ANTH 1323 or ANTH 2353 or PSY 1323 or consent of instructor.*

**ANTH 4365 ARCHAEOLOGY OF SOUTH AMERICA**

A study of the prehistory of South America, with an emphasis on the Andean area. Cultural development will be traced from the time of the first inhabitants through the Incas. The development of complex societies leading up to the Incas will be emphasized. *Prerequisite: ANTH 2342 or consent of instructor.*

**ANTH 4369 ARCHAEOLOGY OF MEXICO AND CENTRAL AMERICA**

A study of the prehistory of Mexico and Central America beginning with the first cultures to inhabit the area and ending with

the arrival of the Spanish. Major civilizations of the area will be emphasized, including the Olmecs, Mayas, and Aztecs.  
*Prerequisite: ANTH 2342 or consent of instructor.*

#### **ANTH 4374 ARCHAEOLOGY OF NORTH AMERICA**

A study of the prehistory of North America north of Mexico. The course deals with cultural development from the time of the initial peopling of the New World until the arrival of Columbus. Major cultural developments in the southwestern and eastern U.S. will be emphasized. *Prerequisite: ANTH 2342 or consent of instructor.*

#### **ANTH 4385 TOPICS IN ANTHROPOLOGY**

Topics are varied according to availability of faculty and student interest. Course can be repeated as topics change. *Prerequisites: 6 hours of anthropology or consent of instructor.*

#### **ANTH 4395 FIELDWORK IN ANTHROPOLOGY**

Students gain practical experience by participating in anthropological research projects that involve fieldwork. Each student will work closely with one or more professionals. This will enable students to receive both instruction about the specific topic under investigation and practical experience in applying appropriate field research methods. May be repeated for a total of 9 hours credit as topics change. *Prerequisites: 6 hours of anthropology and consent of instructor.*

#### **ANTH 5355 PSYCHOLOGY AND MYTHOLOGY**

This course will study the impact and interrelationships of psychological thought and mythological theory. The impact of the theories of Freud, Adler, Jung, Levi-Strauss and others on mythology will be studied. *Prerequisites: PSY 1323 or ANTH 1323 or ANTH 2353 or consent of instructor.*

#### **ANTH 6354 ADVANCED CULTURAL ANTHROPOLOGY**

Stresses the holistic approach of anthropology as a means for understanding societies and explaining their development while also presenting and applying the methodologies of its subdisciplines. May be repeated for 6 hours credit.

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## **Recreation**

See Health and Kinesiology

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## **Department of School Administration and Supervision**

*Dr. J.C. Nichols, Chair*

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### **Full-time Faculty**

Carlan, Carl\* (EdD, University of California at Berkeley, 1972), Associate Professor, Administration and Supervision.

Carr, Carolyn\* (PhD, University of Texas at Austin, 1992), Assistant Professor, Educational Administration.

Lynch, Patrick D.\* (PhD, University of Minnesota, 1960), Professor, Education, Educational Psychology.

Mulhern, John\* (PhD, University of Wisconsin, 1960), Professor, Educational Leadership, Economics.

Nichols, John C.\* (PhD, University of Texas at Austin, 1967), Professor, Educational Administration.

Pulley, Jerry\* (EdD, University of Missouri-Columbia, 1968), Professor, Administration and Supervision.

### **\*Graduate Faculty**

The Department of School Administration and Supervision offers a Master of Education degree in supervision and in school administration, and a Doctor of Education (EdD) degree in cooperation with the Department of Educational Administration at The University of Texas at Austin.

In addition to the supervisor certification and degree, a 45-semester-hour program leading to the Middle Management certificate and a 60-hour School Superintendent's certificate also are offered.

All students desiring to complete an MEd program in the Department of School Administration and Supervision must meet University Graduate School, School of Education and departmental entrance requirements, complete an oral examina-

tion following the completion of 12 semester hours of graduate work, and pass a comprehensive written examination at the end of the program.

Students enrolling in departmental core courses or specialized preparation courses without completing all of the below-listed admission requirements will be dropped from these courses. In the event those courses have been completed, there will be no course credit given toward the MEd or the appropriate certificate.

## Admissions Requirements

1. Admission requirements for the Doctorate of Education in Educational Leadership are as follows:
  - a. Admission to the Graduate Schools of UT Austin and UT Pan American.
  - b. A grade-point average of 3.0 on all upper-division and graduate coursework taken.
  - c. A score of 1050 (verbal and quantitative scores combined) on the Graduate Record Examination. Scores older than five years are not valid.
  - d. Successful completion of the Department of Educational Administration, UT Austin, Assessment Center.
2. Admission Requirements for Master of Education Degree Program in School Administration or Supervision:
  - a. Admission to the University Graduate School.
  - b. Undergraduate grade point average (last 60 hours) x 200 + GRE must be greater than 1250.
  - c. A complete application for Admission to the Administrator's Program.
  - d. Approval by the Department of School Administration and Supervision Admissions Committee.
3. Admission Requirements for Middle Management or Supervision Certification Program:
  - a. Completion of MEd in School Administration or Supervision at UT Pan American or Graduate GPA x 200 + GRE score must be greater than 1350.
  - b. Approval by the Department of School Administration and Supervision Admissions Committee.
4. Admission Requirements for School Superintendent Certification Program:
  - a. Completion of the Middle Management Certificate.
  - b. Graduate GPA x 200 + GRE score must be greater than 1450.
  - c. Public school administrative experience.
  - d. Approval by the Department of School Administration and Supervision Admissions Committee.
5. The Temporary Administrator's Certificate:

Current certification regulations permit the issuance of a temporary certificate to persons being employed as administrators prior to their completing the requirements for full certification. This temporary certificate shall be valid for five years and cannot be renewed. The University of Texas-Pan American will recommend applicants for Temporary Administrator's Certificate if they meet the following criteria:

  - a. Assistant Principal
    - 1.) Holds a bachelor's degree
    - 2.) Holds a Provisional Teacher's Certificate
    - 3.) Has two years of creditable classroom teaching experience.
    - 4.) Has a minimum of 12 graduate hours of Common Core required for the Professional Administrator's Certificate.
    - 5.) Has been approved by the Department of School Administration and Supervision Admissions Committee for the Administrator's Program.
    - 6.) Has been admitted to Graduate School.
    - 7.) Has completed application for the Temporary Administrator's Certificate.
    - 8.) Has obtained a money order or cashier's check for \$65 (made payable to the Texas Education Agency).
  - b. Principal
    - 1.) Holds a master's degree.
    - 2.) Holds a Provisional Teacher's Certificate
    - 3.) Has two years of creditable classroom teaching experience.
    - 4.) Has a minimum of 12 graduate hours of the Common Core required for the Professional Administrator's Certificate.
    - 5.) Has been approved by the Department of School Administration and Supervision Admissions Committee for the Administrator's Program.
    - 6.) Has been admitted to Graduate School.
    - 7.) Has completed application for the Temporary Administrator's Certificate.
    - 8.) Has obtained a money order or cashier's check for \$65 (made payable to the Texas Education Agency).



c. Superintendent

- 1.) Holds a Middle Management Certificate.
- 2.) Has been approved by the Department of School Administration and Supervision Admissions Committee for the Superintendent's Program.
- 3.) Has been admitted to Graduate School.
- 4.) Has completed application for the Temporary Superintendent's Certificate.
- 5.) Has obtained a money order or cashier's check for \$65 (made payable to the Texas Education Agency).

NOTE: Candidates applying for professional certificates must pass the ExCET.

**Degree/Certification Requirements: Administration**

The Educational Administrator's Program is designed to produce change-oriented administrators who are competent in such areas as administrative leadership, school organization and management, school law, finance, contemporary personnel practices, and instructional leadership.

A cooperative Doctor of Education Degree is offered by this department and the Department of Educational Administration at The University of Texas at Austin.

A 36-hour MEd program is offered. A maximum of 12 hours may be transferred from an accredited institution. Upon the successful completion of an additional 15 hours minimum in administration, the student may earn the Middle Management Certificate. The endorsement for the Superintendent requires an additional 15 hours beyond the Middle Management Certificate.

**Doctor of Education**

Please refer to The University of Texas at Austin's *Graduate Catalog* and materials available in this department.

**Master of Education**

*Major:*

Educational Administration

Non-Certification

*Educational Research*

- ED 6300\* Introduction to Research
- ED 6367 Statistical Methods

(6 hours)

*Common Core*

- ED 6330 Elementary Curriculum or
- ED 6331 Secondary Curriculum
- ED 6384\* Introduction to Educational Administration

(12 hours)

\*These courses should be taken at the beginning of the student's program.

ED 6370 Supervision of Instruction

Three hours from:

- ED 6385 Public School Law
- ED 6389 Administration of School Business Services
- ED 6334 Curriculum Development

*Resource Area*

*Choice of 3 hours from Human Relations and Communication Component:*

ED 6363 Personal Growth

*Choice of 3 hours from Multi-Cultural Component:*

ED 6388 Socio-Cultural Foundations of Education

SOCI 6361 Race and Ethnic Relations

SOCI 6362 Mexican-American Society

ED 6302 Advanced Educational Psychology or choice of 3 hours from other academic areas approved by student's adviser.

(3-9 hours)

*Specialized Preparation in Administration*

(Prerequisites: ED 6300, ED 6367, ED 6370, ED 6384 and Oral Examination)

(9-15 hours)

Required for MEd:

ED 6337 Administration of Special Instructional Programs

ED 6338 The School Principalship

Select 3-9 hours from:

ED 6381 Problems in Organization and Administration of Public Schools

ED 6386 Administration of Pupil Personnel Services

ED 6393 The Administration of Staff Personnel

ED 6394 Psychology of Decision-Making

ED 6397 The Analysis of Teaching Behavior  
ED 6320 Microcomputers and Student Services

TOTAL:

36 hours

Students choosing the thesis option will take ED 7300 and ED 7301 in place of ED 6302 and ED 6363.

### Degree/Certification Requirements: Supervision

#### MEd Degree in Supervision

The instructional supervisor is an integral part of the leadership team which manages the system of public education in American society. The master's degree program in supervision emphasizes the training of personnel for change-oriented supervision who are competent in such areas as curriculum improvement, leadership skills, instructional practices improvement, and in planning and directing personnel development activities.

The 39-hour program provides opportunities in several areas of specialization at both the elementary and secondary school levels. A maximum of 12 hours may be transferred from an accredited institution.

It is recommended that the student complete the following courses prior to the oral examination: ED 6300, ED 6370, and ED 6302. The Practicum, ED 6371, and Problems, ED 6379, should be the last 6 hours of the student's program.

#### Master of Education

*Major*  
Supervision

*Certificate*  
Supervisor

#### *Leadership for Instructional Improvement*

(18 hours)

Curriculum and Staff Development

ED 6330\* The Curriculum in the Elementary School or ED 6331\* The Curriculum in the Secondary School

\*Should be taken prior to ED 6334

ED 6334 Curriculum Development — Problems and Procedures

ED 6397 Analysis of Teaching Behavior

Theory and Practice of Instruction Leadership

ED 6370\* Supervision of Instruction

\*Must be taken prior to ED 6397

ED 6371 Practicum in Supervision

ED 6379 Problems in Educational Supervision

#### *Learning Theory*

(6 hours)

ED 6337 Administration of Special Instructional Programs

ED 6302 Advanced Educational Psychology

#### *Research Tools*

(6 hours)

ED 6300 Introduction to Research

ED 6367 Statistical Methods

#### *Resource Area*

(9 hours)

With approval of the adviser, the student will select graduate courses from such areas as Elementary Education, Secondary Education, Bilingual/Bicultural Education, Reading, Early Childhood Education, Special Education, disciplines outside of Education, or professional development courses.

TOTAL

39 hours

Students wishing the thesis option will take ED 7300 and ED 7301 in place of two courses in resource area.

NOTE: Candidates applying for the supervision certificate must pass an ExCET.

#### Middle-Management Certificate

#### *Common Core*

(18 hours)

ED 6330 Elementary Curriculum or ED 6331 Secondary Curriculum

ED 6384 Introduction to Educational Administration

ED 6370 Supervision of Instruction

ED 6385 Public School Law

ED 6389 Administration of School Business Services

ED 6334 Curriculum Development

<i>Resource Area</i>	(9 hours)
Choice of 3 hours from <i>Human Relations and Communication Component</i>	
ED 6363 Personal Growth	
<i>Multi-Cultural Component</i> — Choice of 3 hours from:	
ED 6388 Socio-Cultural Foundations of Education	
SOC 6361 Race and Ethnic Relations	
SOC 6362 Mexican-American Society	
ED 6302 Advanced Educational Psychology	
or choice of 3 hours from other academic areas approved by student's adviser.	
<i>Specialized Preparation for Administration</i>	(18 hours)
(Prerequisites: ED 6370 and ED 6384)	
<i>Required:</i>	
ED 6337 Administration of Special Instructional Programs	
ED 6338 The School Principalship	
ED 6398 Internship in Middle Management	
<i>Select 9 hours from:</i>	
ED 6381 Problems in Organization and Administration of Public Schools	
ED 6386 Administration of Pupil Personnel Services	
ED 6393 The Administration of Staff Personnel	
ED 6394 Psychology of Decision-Making	
ED 6397 The Analysis of Teaching Behavior	
ED 6320 Microcomputers and Student Services	
<b>TOTAL:</b>	<b>45 hours</b>
NOTE: Candidates applying for professional certificates must pass the ExCET.	

### Superintendent Certification Program

<i>Common Core</i>	(18 hours)
ED 6330 Elementary Curriculum or ED 6331 Secondary Curriculum	
ED 6384 Introduction to Educational Administration	
ED 6370 Supervision of Instruction	
ED 6385 School Law	
ED 6389 Administration of School Business Services	
ED 6334 Curriculum Development – Problems and Procedures	
<i>Resource Area</i>	(9 hours)
Choice of 3 hours from <i>Human Relations and Communication Component:</i>	
ED 6363 Personal Growth	
Choice of 3 hours from <i>Multi-Cultural Component:</i>	
ED 6388 Socio-Cultural Foundations of Education	
SOC 6361 Race and Ethnic Relations	
SOC 6362 Mexican-American Society	
ED 6302 Advanced Educational Psychology	
or choice of 3 hours from other academic areas approved by student's adviser.	
<i>Specialized Preparation for Administration</i>	(18 hours)
<i>Required:</i>	
ED 6337 Administration of Special Instructional Programs	
ED 6338 The School Principalship	
ED 6398 Internship in Middle Management	
<i>Select 9 hours from:</i>	
ED 6381 Problems in Organization and Administration of Public Schools	
ED 6386 Administration of Pupil Personnel Services	
ED 6393 The Administration of Staff Personnel	
ED 6394 Psychology of Decision-Making	
ED 6397 The Analysis of Teaching Behavior	
ED 6320 Microcomputers and Student Services	
<i>Superintendent Endorsement</i>	(15 hours)
ED 7310 Administration of School Facilities	
ED 7312 Social-Political Problems and the Superintendency	
ED 7313 Internship for the Superintendent	

NOTE: Candidates applying for professional certificates must pass the ExCET.

## Course Descriptions

### ED 6320 MICROCOMPUTERS AND STUDENT SERVICES

Fall, Spring

Survey of data processing applications to student accounting, grade reporting and payroll; a study of model data processing programs available to streamline public school management problems.

### ED 6330 THE CURRICULUM IN THE ELEMENTARY SCHOOL

Spring, Summer

Development of the elementary school curriculum, significant factors which help to determine the curriculum and implications of research in curriculum construction are studied. Opportunity to select and organize appropriate learning experiences for the different levels is offered.

### ED 6331 THE CURRICULUM IN THE SECONDARY SCHOOL

Fall, Spring, Summer

An overview of theories, principles and issues in curriculum planning for modern educational experience. In addition to an examination of current curricular practices, particular emphasis will be placed upon Chapter 75 and local efforts toward improvement in the secondary school.

### ED 6334 CURRICULUM DEVELOPMENT – PROBLEMS AND PROCESSES

Fall, Spring, Summer

The examination of systematic approaches to developing and evaluating elementary and secondary school curricula at the national, state, local school district and campus levels. Methods of developing and applying criteria for curriculum analysis of each of the major curriculum areas to be studied. *Prerequisite: ED 6330, ED 6331, or equivalent.*

### ED 6336 PROBLEMS IN EDUCATION

Fall, Spring, Summer

This course's major emphasis is on current innovations in education. Students will conduct research related to selected problems. Experiences of the student may include conducting action research, working with educational determinants, new education programs and/or working with classroom teachers and other persons in the community in order to improve the education program. Credit may be applied toward the graduate programs in education when the appropriate problem is chosen by the student. This course may be repeated once for credit.

### ED 6337 ADMINISTRATION OF SPECIAL INSTRUCTIONAL PROGRAMS

Fall, Spring, Summer

Emphasis is placed on the administration of special elementary and secondary school programs including career, vocational, technical, special, compensatory and reading education.

### ED 6338 THE PRINCIPALSHIP

Fall, Spring, Summer

A study of the unique functions of the principalship as they relate to the administration of elementary, middle, junior and secondary schools. Special emphasis will be focused on the leadership role of the principal in the management and instructional aspects of the school programs.

### ED 6370 SUPERVISION OF INSTRUCTION

Fall, Spring, Summer

Fundamental problems of the supervision of instruction in the small and moderately sized public schools; the nature and organization of supervision, supervisory plans and principles; teacher participation in forming education policies; effort of recent educational practices upon supervision; duties, relationships and training of supervisory officials; standards for judging teachers; methods of improving instruction; case studies in supervision; the use of conferences, teachers' meetings, demonstration teaching, visitation and research studies as supervisory agencies.

**ED 6371 PRACTICUM IN SUPERVISION**

Spring

Actual experiences in supervisory methods and practices for the elementary school and secondary school supervisor. Teacher rating scales, in-service programs and staff development processes will be analyzed and implemented by each participant. A strong focus on clinical supervision. *Prerequisite: ED 6370.*

**ED 6379 PROBLEMS IN EDUCATIONAL SUPERVISION**

Spring

Each participant will define and resolve a supervisory problem in his or her specific area of interest. Each participant will be directed in his or her study by a graduate faculty member and a formal research paper dealing with a specific supervisory problem will be required. *Prerequisite: ED 6370.*

**ED 6381 PROBLEMS IN ORGANIZATION AND ADMINISTRATION OF PUBLIC SCHOOLS**

Fall, Spring, Summer

Research, readings and thorough study of the organization and administration of elementary and secondary schools; a careful analysis of the role of middle management personnel in the improvement of instruction; an analysis of administrative function and leadership style will be emphasized.

**ED 6384 INTRODUCTION TO EDUCATIONAL ADMINISTRATION**

Fall, Spring, Summer

An overview of public school administration introducing such topics as processes of organization and administration, instructional personnel and staff, finance, leadership roles, curriculum, physical plant operation, maintenance and legal aspects.

**ED 6385 PUBLIC SCHOOL LAW**

Fall, Spring, Summer

Constitutional provisions, statutory laws, court decisions, torts and regulations governing public schools with special reference to their influence upon the administration and function of public schools.

**ED 6386 ADMINISTRATION OF PUPIL PERSONNEL SERVICES**

Spring

A problem approach to the understanding, development and management of special pupil services of concern to the teacher, counselor, supervisor and administrator.

**ED 6388 SOCIO-CULTURAL FOUNDATIONS OF EDUCATION**

Fall, Spring, Summer

Identification and analysis of cultural forces which ultimately shape the direction of modern American education with emphasis upon the purposes of education in their social and cultural contexts. An emphasis on the multicultural factors in society which affect the public schools and their influence upon learning and the acquisition of skills important to survival and self-fulfillment will be made. Particular emphasis will be placed upon understanding the culture of the Mexican-American child.

**ED 6389 ADMINISTRATION AND ORGANIZATION OF SCHOOL BUSINESS SERVICES**

Fall, Spring

Principles and procedures of developing and managing a sound financial plan for local school districts with emphasis upon Texas Education Agency financial and accounting procedures. Emphasis upon school law, taxation, property management and maintenance, school transportation and management of business personnel.

**ED 6393 ADMINISTRATION OF SCHOOL STAFF PERSONNEL**

Fall, Spring, Summer

Analysis of personnel organization, administration and function in school systems; relationships of various school positions; a study of ethics, welfare, security and professional improvement.

**ED 6394 PSYCHOLOGY OF DECISION MAKING**

Spring

Analysis of skills and techniques needed by an effective administrator in the modern school; emphasis upon synergistic leadership, teacher-administrator relationships, group processes and group dynamics and the assessment of administrative performance.

**ED 6397 ANALYSIS OF TEACHING BEHAVIOR**

Fall, Spring, Summer

Methods of gathering, analyzing and interpreting data in leadership conferences with student teachers, interns and professional teachers; the application of technology in the evaluation and supervision of classroom teaching; the development of skills to demonstrate effective behavior. *Prerequisite: ED 6370.*

**ED 6398 INTERNSHIP IN MIDDLE MANAGEMENT**

Fall, Spring, Summer

A field-based course in which students practice competencies and theories acquired as they assume responsibilities associated with the middle management positions in local school districts.

**ED 7300 THESIS**

Fall, Spring, Summer

**ED 7301 THESIS**

Fall, Spring, Summer

**ED 7310 ADMINISTRATION OF SCHOOL FACILITIES**

Spring 1995, 1997

A study of operation, utilization and maintenance of physical plant; determination of facilities needs; planning building programs and school plant development.

**ED 7312 SOCIAL-POLITICAL PROBLEMS AND THE SUPERINTENDENCY**

Spring 1994, 1996

An analysis of the interrelationships of the local districts with other local political subdivisions; a study of the impact of power structures upon local education; a review of the influence of professional and non-professional organizations upon educational decision-making; and an analysis of the influence of the power structures upon educational decisions. School-community relations are emphasized.

**ED 7313 INTERNSHIP FOR THE SUPERINTENDENT**

Fall, Spring, Summer

Designed to give prospective school superintendents on-the-job experiences under the guidance of an experienced, practicing public school administrator and under the supervision of a member of the University staff.

**ED 7314 THE SUPERINTENDENCY**

Fall 1994, 1996

A study of the unique role of the school superintendent. Attention will be given to policy development, staff/superintendent/board relations, school transportation, accreditation, human relations and collective negotiations.

**ED 7315 TEXAS SCHOOL FINANCE**

Fall 1995, 1997

A study of Texas public school finance as mandated by the several sub-segments of the Texas Education Agency. Financial aspects of all segments of TEA will be reviewed; selected emphasis will be stressed on several major programs under the agency.

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**Secondary Education**

See Department of Curriculum and Instruction — Elementary and Secondary

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**Department of Social Work**

*Dr. Fernando J. Galan, Chair*

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**Full-time Faculty**

Anzaldua, Hermila (MSW, Our Lady of the Lake University, 1966), Professor, Family Practice, Gerontology, Social Work Education and Practice.

Cavazos, Alonzo (MSSW, University of Texas at Austin, 1975), Assistant Professor, Clinical Social Work Practice.  
De Hoyos, Librado R., Jr., (MSSS, Boston University, 1964), Associate Professor, Chicano-Latino Studies, Community Social Psychology, Social Work Education and Practice.  
Galan, Fernando J. (PhD, Brandeis University, 1978), Associate Professor and Director, Social Policy, Administration, Bicultural Family Therapy, Cross Cultural and Race Relations, Social Work Practice Models.  
Solis, Raul H. (MSW, Our Lady of the Lake University, 1974), Assistant Professor, Mexican-American Experience, Generalist Social Work, Occupational Social Work, International Social Work, Field Education.

The Bachelor of Social Work (BSW) degree program is a four-year broad field major with a liberal arts base, a required foundation content in behavioral sciences and professional social work courses. It provides basic knowledge of the social welfare systems, the Social Work profession, knowledge, values and skills necessary for social change in practice, and prepares students to pursue graduate study in Social Work and related professions. The Social Work Program is accredited by the Council on Social Work Education.

The overall goal of the program is to impart knowledge, values, skills and attitudes for beginning professional social work practice with special emphasis on the uniqueness of the bilingual/bicultural Texas-Mexico border.

The student will have the opportunity to learn the competencies of the entry-level generalist practitioner. These include such functional skills as the problem-solving approach to assess needs, intervene, evaluate responses and link individuals with resources and opportunities for change. The BSW candidate will master required standards for social work practice.

A student who wishes to major in Social Work should register for SOCW 1313 Introduction to the Social Work Profession. After successful completion of three sequential social work courses, the student must apply for admission and be accepted into the Social Work Program. Eligibility for field instruction in social work requires an official degree plan and application for the internship on file in the Social Work Office. A 2.0 GPA is required in the major as well as overall course work. Academic advisement is required for all social work majors. As part of their general education requirements, the students must take 8 semester hours in Human Anatomy and Physiology and 6 in Spanish.

Full-time students in the Social Work Program are eligible for membership in the Student Association of Social Work (The Social Work Club) and the National Association of Social Workers, Texas Chapter and local NASW Unit. Upon graduation, a BSW student may be licensed as a social worker under the Texas Professional Social Work Act.

### **Degree Requirements**

**SOCIAL WORK CORE COURSES** (35 hours of which 23 are advanced)

Social Work majors must take the following courses: SOCW 1313, 2314, 2323, 2324, 3314, 3323, 3324, 3353, 4314, 4416 and 4417.

**FOUNDATION COURSES** (Required 24 hours of which 21 are advanced)

*Group A — Statistics (3 hours required)*

SOC 2301, PSY 2301, MATH or STAT 2330

*Group B — Psychology (6 hours must be advanced)*

PSY 3305, 3333, 3340, 3343, 4313, 4333

*Group C — Sociology (6 hours)*

SOC 3324, 3343, 3353, 4310, 4313, 4352

*Group D — General Topics (9 advanced hours)*

ANTH 3375, 4353

PHIL 3310, 3320, 3362

POLS 3323, 3344, 3360, 3363, 3365

HIST 4353, 4354

CRJ 3303, 3341

COMM 3315, 3316

SOCW electives: 3333, 3334, 3345, 3346, 4320, 4321, 4323, 4352.

*Group E — GENERAL ELECTIVES: (Required 5 hours)*

### **Course Descriptions**

#### **SOCW 1313 INTRODUCTION TO THE SOCIAL WORK PROFESSION**

(Texas Common Course Number is SOCW 2361.)

Fall, Spring, Summer

Traces the philosophy and historical development of Social Work reflecting its Social Welfare European roots and its historical evolution in America. A general overview of the social work profession, functions, and services as they relate to various fields of practice will be studied. Volunteer work in the community will be required. (Formerly SOCW 1313 Introduction to Social Work; may not be repeated for credit.) *Prerequisite: 3 hours PSY or SOC or consent of instructor.*

### **SOCW 2314 THE SOCIAL WELFARE INSTITUTION**

Fall, Spring

This course is a continuation of the introductory level course with emphasis on the social welfare institution, its laws, societal responses, and parallel social work services. Specific welfare legislation and programs will be examined which impact the profession of social work. (Formerly SOCW 2314 Social Welfare Legislation; may not be repeated for credit.) *Prerequisites: SOCW 1313 and 6 hours sociology/psychology or consent of instructor.*

### **SOCW 2323 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I**

Fall and Spring

Designed to provide the student with an understanding of the person-in-environment concept that affects an individual's social functioning. Particular emphasis will be placed on understanding the behavior dynamics assessment model which illustrates the transactions between individuals and their social environments. Emphasis will be on the early years to adolescence, and implications for social work practice. (Formerly SOCW 2324; may not be repeated for credit.) *Prerequisites: SOCW 1313 and 6 hours sociology/psychology or consent of instructor.*

### **SOCW 2324 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT II**

Fall and Spring

Designed to provide the students with an understanding of human behavior and the social environment as a continuation of SOCW 2323 with emphasis on the later years of the life span with implications for social work practice. *Prerequisites: SOCW 1313 and 6 hours in SOC/PSY and SOCW 2323 or consent of instructor.*

### **SOCW 2342 SUBSTANCE ABUSE AND THE FAMILY**

Fall, even years

Provides an introduction to the basic dynamic nature of the substance-abusing family, including structures, relationships and development in the process of its societal evolution. The function of the family as a socialization agent will be studied. Focus will be given to value transmission, learning patterns of interaction, impact on varieties of relationships and coping styles. *Prerequisites: 3 hours of SOC or PSY and 6 hours SOCW and consent of instructor.*

### **SOCW 2350 GROUPS IN SOCIAL WORK**

Summer, Spring, Fall

Provides a general orientation to small groups in Social Work practice. Students will examine the values, objectives and principles of social group work practice. Through classroom participation, the various group theories, concepts, dynamics and processes will be experienced. Focus will be on group leadership and development of self-awareness to illustrate the worker's role in facilitating the processes of group and individual development. *Prerequisites: 3 hours SOC or PSY and SOC 1313 and consent of instructor.*

### **SOCW 3314 SOCIAL WELFARE POLICY AND PROGRAMS**

Fall, Spring

Examines economic, political, intellectual, sociocultural, leadership, values and ideologies and other such factors which shape social welfare policy, programs and services. Addresses various frameworks for studying social policy, and examines the roles of policy-makers, process of social change and the role of the social worker as a facilitator of change. (Formerly SOCW 4313; may not be repeated for credit.) *Prerequisites: 6 hours of Social Work courses including SOCW 1313, SOCW 2314 and SOCW 2323 and consent of instructor.*

### **SOCW 3323 SOCIAL WORK PRACTICE I**

Fall, Spring

Through classroom and community work, the student examines some of the necessary knowledge, attitudes, values and skills upon which problem-solving is based and learns how the generalist approach to practice is basic to all service-giving in social work. (Formerly SOCW 3323 Methods in Social Work Practice; may not be repeated for credit for Social Work Practice I.) *Prerequisites: SOCW 1313, 2314 and 2323.*

### **SOCW 3324 SOCIAL WORK PRACTICE II**

Fall, Spring

Designed to provide social work students with knowledge of direct practice with families and small groups using the problem-solving approach. Students will selectively use concepts and techniques from various models, e.g., systems perspective, psychosocial theory, behavior modification and family-focused work as frameworks to develop strategies in clinical and cross-cultural intervention. To be taken concurrently with SOCW 4416. (Formerly SOCW 3324 Methods in Social Work Practice II; may not be repeated for credit.) *Prerequisites: SOCW 2324, 3323, 3314.*



### **SOCW 3333 SPECIAL TOPICS IN SOCIAL WORK ISSUES**

On Demand

An analysis of conceptual frameworks, content, laboratory experiences and research opportunities in current social issues with particular relevance to our community, requiring the social worker's interventive, problem-solving knowledge, values and skills, and preparing the social work student and other helping professionals for interdisciplinary collaboration in achieving effective social change objectives. Sequential registration for up to 6 hours is permitted as topics vary. Topics will vary according to timeliness of issues, student demand and availability of faculty. *Prerequisites: 9 hours SOCW or consent of instructor.*

### **SOCW 3334 SOCIAL WORK PRACTICE WITH THE AGING FAMILY**

Summer, Fall, Spring odd years

Students will study interviewing, assessment and intervention, demographics of an aging population in America, roles and functions of families, the quality of life of the elderly, societal and cultural issues for older adults, supportive resources and networks as well as services for the aged and their family members. The generalist approach is applied to work with older clients through case examples and community assignments. *Prerequisites: 9 hours SOCW or consent of instructor.*

### **SOCW 3345 OCCUPATIONAL SOCIAL WORK**

Summer, Fall, Spring even years

This course is designed to examine the social worker's role within industrial and occupational settings. The course will examine the work environment and its linkages to the individual, the family and the community. Various models of employee social service programs, e.g., Employee Assistance Programs, Job Well Being and Enhancement Programs, and On-site Counseling models will be studied. (Formerly SOCW 3345 Industrial Social Work; may not be repeated for credit.) *Prerequisites: 9 hours SOCW or consent of instructor.*

### **SOCW 3353 RESEARCH FOR THE SOCIAL SERVICES**

Fall, Spring

Introduces students to basic concepts necessary to understand the different phases of research involved in social service practice. Students are expected to gain a beginning competency in planning, implementing and evaluating social research in application to social work practice as well as in evaluating programs and their own practice. (Formerly SOCW 4323; may not be repeated for credit.) *Prerequisite: 9 hours of Social Work courses and statistics and consent of instructor.*

### **SOCW 4314 SOCIAL WORK PRACTICE III**

Fall, Spring

It is intended that the student gain perception of needed social changes, responses to these efforts, and social work assessment, planning and intervention called for at the community level. Various theoretical perspectives about the social environment will focus on community and societal values which impact on individuals, families and other groups. Linkage of needs to resources will be emphasized. To be taken concurrently with SOCW 4417. (Formerly SOCW 4314 Methods in Social Work Practice III; may not be repeated for credit.) *Prerequisites: SOCW 4416, 3323, 3324 3353.*

### **SOCW 4320 SOCIAL WORK IN HEALTH CARE**

Summer, Spring on odd years

This course focuses on the health care system, clients as consumers of health and health care issues as they relate to social work practice. An examination of health-related settings and the diverse skills, roles and functions of social workers will be studied within a team intervention approach with emphasis on gender, ethnic and cultural aspects of health care. *Prerequisites: 9 hours including SOCW 2323, 2324 or consent of instructor.*

### **SOCW 4321 DOMESTIC VIOLENCE IN SOCIETY**

Spring, odd years

The purpose of this course is to examine the phenomenon of domestic violence. Students will study the family structures in which violence occurs; the range (from verbal abuse to homicide) and its extent in society; and the various attitudes toward it. Understanding of the basic theories of violence; identification of support services and systems for victims of domestic violence; and development of basic communication skills for assisting the victims will be expected of the student. *Prerequisites: 9 hours Social Work or consent of instructor.*

### **SOCW 4352 SUBSTANCE ABUSE COUNSELING IN THE COMMUNITY**

Spring, odd years

Patterns of street substance abuse, community education and agency consultation, resource evaluation of such support systems as AA, half-way houses, networking, divergency programs, therapy with the abuser and family are emphasized as follow-up and outreach social work intervention at the community level. Counseling processes studied will include voca-

tional rehabilitation. Cultural assessment, evaluation of treatment effectiveness and legal-ethical issues will be examined in the context of social service delivery. *Prerequisites: SOCW 2342 and consent of instructor. (Substance abuse certification requirement.)*

#### **SOCW 4416 FIELD INSTRUCTION IN SOCIAL WORK I**

Fall, Spring

A minimum of 240 hours in the field for one semester (two days a week). Work will be completed in established social agencies or informal settings under joint supervision of agency and university. Students will receive educationally directed field instruction with engagement in direct service activities as well as gain knowledge of community resources and agency techniques for meeting today's social problems. Concurrent seminar three hours weekly. (Formerly SOCW 4613; may not be repeated for credit.) *Prerequisites: SOCW 3314 and 3323. Taken concurrently with SOCW 3324.*

#### **SOCW 4417 FIELD INSTRUCTION IN SOCIAL WORK II**

Fall, Spring

Continuation of Field I. *Prerequisite: SOCW 4416 and SOCW 3324. Taken concurrently with SOCW 4314.*

#### **SOCW 4818 FIELD BLOCK PLACEMENT**

May be taken in lieu of SOCW 4416 and 4417. A minimum of 480 hours (four days a week for one semester) of in-the-field experiences in established social agencies or informal settings under joint supervision of agency and university and as described in SOCW 4416 and 4417. Approval from Office of Field Instruction. *Prerequisites: SOCW 3323, 3324 and 4314 and most degree course requirements.*

#### **SOCW 5301 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT**

Examination and analysis of problems of human functioning in both rural and urban environments, using stress and adaptation as a framework for analysis. Required of all first-year students.

#### **SOCW 5304 DIRECT SOCIAL WORK PRACTICE I**

Introduction to basic direct service methodologies of social work intervention at the individual, family and group levels. Common elements of direct service methodology — criteria for problem identification, goal determination and selection of intervention techniques and treatment strategies — explored. Required of all first-year students.

#### **SOCW 5305 SOCIAL WORK PRACTICE II**

Examines change theories, intervention strategies and therapeutic techniques at the individual, family and group levels. Emphasis placed on developing selection criteria among alternative approaches, intervention activities to the specific goals of intervention and the specific practice context. *Prerequisite: SOCW 5304 or equivalent.*

#### **SOCW 5307 HUMAN SERVICES ADMINISTRATION AND PLANNING**

Examines and applies methodologies in human services administration and planning. Roles of professional planners and administrators examined. *Prerequisite: 3 graduate semester hours in administration.*

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## **Department of Sociology**

*Dr. Stephen W. Liebowitz, Chair*

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#### **Full-time Faculty**

Bastida, Elena (PhD, University of Kansas, 1979), Professor, Aging, Theory, Gender Roles.

Guerra, Ramon S. (PhD, Southern Methodist University, 1989), Lecturer, Japanese Society, Mexican Americans, Ethnicity and Religion.

Juarez, Rumaldo Z.\* (PhD, Pennsylvania State University, 1976), Associate Professor, Health and Aging, Theory.

Liebowitz, Stephen W.\* (PhD, University of Missouri at Columbia, 1979), Associate Professor and Chair, Social Psychology, Statistics.

Nelson, Harold A.\* (PhD, University of Southern California, 1960), Professor, Social Movements, Community Organization and Change.

Raajpoot, Uzzer A. (PhD, University of Oregon, 1991), Assistant Professor, Statistics, Methods, Demography.  
Reed-Sanders, Delores\* (PhD, Oklahoma State University, 1974), Professor, Aging, Family, Deviance.  
Richardson, D. Chad\* (PhD, University of Texas at Austin, 1975), Professor, Borderlands Studies, Sociology of Education, Complex Organizations.  
Torres, Cruz C. (PhD, Texas A&M University, 1987), Assistant Professor, Race and Ethnicity, Mexican-American Studies, Aging, Complex Organizations.

#### \* Graduate Faculty

The Department of Sociology offers a major and a minor in Sociology. In addition, it offers sociology courses for students seeking a second teaching field for teacher certification in secondary education.

NOTE: Students seeking teacher certification in sociology must have a second teaching field, excluding psychology. Please see the department chair for details.

Students majoring and minoring in Sociology receive excellent preparation for careers in public and private agencies dealing in human relations. The more challenging and specialized fields in sociology usually require further study beyond the Bachelor's degree. Sociology also provides excellent background for those persons considering careers in such fields as education, health, law, law enforcement, business and journalism.

#### Degree Requirements:

##### Major in Sociology:

30 semester hours of which 18 hours must be advanced; must include SOC 1313, 2301, 3301, 4333 and 4352.

##### Minor in Sociology:

18 semester hours in Sociology of which 9 hours must be advanced; must include SOC 1313 and 4333 or 4352.

##### Minor in Sociology

(With Teacher Certification)

*Secondary Option II:* 24 semester hours in Sociology. Must include:

SOC 1313, 1323, 3301, 4360, 4323 and 9 hours (3 upper division) from the following: 2301, 2324, 2332, 2333, 3313, 3324, 3326, 3333, 3343, 3353, 3393, 4310, 4313, 4314, 4325, 4333, 4373, 4380, 4383.

#### Course Descriptions

##### SOC 1313 PRINCIPLES OF SOCIOLOGY

(Texas Common Course Number is SOCI 1301.)

Fall, Spring, Summer

The social group, culture and personality; social institutions; social interaction; social change. (Formerly 2313; may not be repeated for credit.)

##### SOC 1323 CURRENT SOCIAL ISSUES

(Texas Common Course Number is 1306.)

Fall, Spring

A sociological analysis of selected social issues present in current society. (Formerly SOC 2323; may not be repeated for credit.)

##### SOC 1387 PRINCIPLES OF SOCIOLOGY, HONORS PLAN

A sociological analysis of major concepts such as social group, culture, socialization, social interaction and group relations. The course is discussion-centered with emphasis on independent study. Credit may be received in only one of Sociology 1313 or 1387. *Prerequisite:* Admission to Honors Studies or by invitation.

##### SOC 2301 STATISTICS FOR THE BEHAVIORAL SCIENCES

Fall

An introduction to the procedures used in handling sociological data including frequency distributions, central tendency, variability, correlation and elementary hypothesis testing. (Formerly SOC 4301; may not be repeated for credit.) *Prerequisites:* 3 hours of MATH (except MATH 2306) and SOC 1313 and SOC 1323 or consent of instructor.

**SOC 2324 SOCIAL PSYCHOLOGY**

(Texas Common Course Number is SOCI 2326.)

On Demand

Principles of social psychology with sociological emphasis of symbolic interactionism. Topics include differences between humans and animals, language and symbols, human development, and the instinct controversy.

**SOC 2332 COMMUNITY**

On Demand

A consideration of community organization and problems and strategies for change. Special attention will be given to community organization and problems in the Rio Grande Valley.

**SOC 2333 MARRIAGE AND THE FAMILY**

(Texas Common Course Number is SOCI 2301.)

On Demand

A study of problems and an analysis of the factors contributing to successful marriages with study of surveys that have been made of this aspect of the social relations of men and women.

**SOC 3301 METHODS OF SOCIAL RESEARCH**

Spring

Use of scientific method in social research; formulation of research designs, hypothesis testing, sampling, interviewing, observation, coding, use of documents, questionnaires and scales. Emphasis on interpretation of social data. *Prerequisite: SOC 1313 and 2301 or consent of instructor.*

**SOC 3313 CRIMINOLOGY**

Fall, Spring

A study of crime, its causes and its social treatment. *Prerequisite: SOC 1313 or consent of instructor.*

**SOC 3324 SOCIOLOGY OF HEALTH**

On Demand

Analysis of basic problems in the maintenance and preservation of health and delivery of health care services by social class. Focus is on environmental causes of disease, social-psychological response to illness; and family cohesion, strain and resources as affected by illness. *Prerequisite: 3 hours of Sociology or consent of instructor.*

**SOC 3326 CONTEMPORARY ISSUES IN SOCIAL PSYCHOLOGY**

On Demand

A review and discussion of recent issues and advances in social psychology. This course will focus on contemporary concerns with regard to both theory and research in the laboratory and the community. *Prerequisite: PSY 2324 or SOC 2324.*

**SOC 3333 URBAN SOCIOLOGY**

On Demand

The culture, history and growth patterns of cities; demographic, ecological patterns and trends. Problems of housing and community organization. *Prerequisite: SOC 1313 or consent of instructor.*

**SOC 3343 SOCIAL CHANGE**

On Demand

A study of the processes and theories underlying social changes experienced in the Rio Grande Valley, the United States and other Western societies. Emphasis will be placed on identifying and understanding the indicators of social change, perspectives of social change, patterns of change and strategies for change. *Prerequisite: SOC 1313 or consent of instructor.*

**SOC 3353 JUVENILE DELINQUENCY**

On Demand

Delinquency in modern society, basic factors and conditions of juvenile delinquency and the problems of delinquency control. *Prerequisite: SOC 3313 or 1313 or consent of instructor.*

**SOC 3393 SOCIOLOGY OF AGING**

On Demand

Analysis of the basic problems faced by the aged within a social context. Within an institutional framework, focus is on health, income, work, religion, leisure and interpersonal relationships of the aged. *Prerequisite: 3 hours of Sociology or consent of instructor.*

### **SOC 4310 SEX ROLES IN CONTEMPORARY AMERICA**

On Demand

An exploration of the sociological meaning of gender and gender roles in contemporary society. The focus is on the status of women vis-a-vis that of men in the institutional structure: family, marketplace, school and political-legal arena. The nature and causes of sex role differentiation, of changing sex roles and the future of sexual equality will be discussed. (Formerly SOC 4311 and PSY 4311; may not be repeated for credit.) *Prerequisite: 6 hours of Sociology or the consent of instructor.*

### **SOC 4313 AMERICAN MINORITIES**

Fall, Spring

An analysis of intergroup relations among minority groups and the dominant group with special focus on patterns of conflict, change, adjustment, power and inequality among such groups. Some in depth description of the problems and characteristics of major American minorities. *Prerequisite: 6 hours of Sociology or consent of instructor.*

### **SOC 4314 SOCIOLOGY OF DEVIANCE**

On Demand

The nature and extent of deviancy examined through a review of theory and research on deviant behavior. Selective examination of particular types of individual and subcultural deviance (e.g., homosexuality, physical handicaps, prostitution). *Prerequisite: 6 hours of Sociology or consent of instructor.*

### **SOC 4323 THE MEXICAN-AMERICAN PEOPLE**

Fall, Spring

Presents an examination of the Mexican American's economic status, cultural values, style of life, educational attainment, family status and political participation as affected by current socio-economic conditions and their historical antecedents. *Prerequisites: 6 hours of Sociology and/or Anthropology or consent of instructor.*

### **SOC 4325 METHODS OF POPULATION ANALYSIS**

On Demand

An overview of the techniques of population analysis and their applications in the planning, evaluation and problem-solving process. Special emphasis on the effects of population on community, regional and state socio-economic structures. Will explore the interaction of population and technology, resource utilization, public policy, the planning process, and decision-making in business/government service. *Prerequisite: 6 hours of Sociology or instructor's consent.*

### **SOC 4333 SOCIAL THEORY**

On Demand

A survey of historical development and the theories of major sociologists. *Prerequisite: 9 hours of Sociology or consent of instructor.*

### **SOC 4352 SOCIAL INEQUALITY**

On Demand

A discussion of research, concepts and theory related to inequality in social life, its causes and consequences. The social order of relations between the affluent and the poor and how inequality among the social classes is built into the culture and institutions of society (e.g., government, economics, religion, family). Special attention will be given to an examination of poverty in the Lower Rio Grande Valley and among minority populations in the U.S. *Prerequisite: SOC 1313 or consent of instructor.*

### **SOC 4360 SOCIOLOGY OF EDUCATION**

On Demand

Social and institutional organization of education and the profession of teaching. Class, ethnic, and other social factors affecting the educational process and the effect of educational institutions and practices on the community and society. *Prerequisite: SOC 1313 or consent of instructor.*

### **SOC 4373 LATIN AMERICAN SOCIETY**

On Demand

The development, culture, structure and functioning of the societies of Latin America. *Prerequisite: 6 hours of Sociology or consent of instructor.*

### **SOC 4380 SOCIAL PROTEST AND SOCIAL MOVEMENTS**

On Demand

An investigation of the careers of protest and movement organizations. Special attention is directed to the structure of these

organizations and the dilemmas and problems they encounter. Case studies are included. *Prerequisite: SOC 1313 or consent of instructor.*

### **SOC 4383 INDEPENDENT STUDIES**

On Demand

Designed to give student experience in research or in-depth theoretical/empirical readings in a substantive area not normally covered within standard courses. Research projects or advanced readings will vary according to student interest and faculty availability. Sequential registration for up to 9 hours is permitted as topics vary. Formerly SOC 4387. A maximum of 9 hours from SOC 4383, 4384, 4385 is permitted. *Prerequisite: 9 hours of Sociology and the consent of the instructor.*

## **The Sociology Graduate Program**

### **MS Degree in Sociology**

*Dr. Chad Richardson, Master's Coordinator*

The Department of Sociology offers the Master of Science degree in Sociology. In addition, the Department supports other graduate programs through several key graduate courses.

Candidates for the master's degree may choose a general Sociology focus, a concentration on regional studies (including Mexican-American Society and Border and Inter-American Issues), or a concentration in Gerontology (including such topics as Hispanic Aging, health-care systems and family support systems for the elderly).

### **Departmental Requirements for the Master of Science Degree**

To be admitted into the Sociology Master's Program, applicants must follow the general procedure for graduate admissions explained elsewhere in this catalog and meet the following requirements specific to the Sociology Master's Program:

1. Hold a Bachelor's degree or its equivalent from a college or university with appropriate regional, national or international accreditation;
2. Have at least 18 undergraduate semester hours in Sociology, including the core areas of theory, methods and statistics (if not, the candidate may be accepted provisionally and must remove the deficiency during the first two semesters of graduate study);
3. Be recommended by a Committee from the Graduate Sociology Faculty;
4. Have an undergraduate 3.0 grade point average (GPA) or more on a 4.0 scale;
5. Provide a minimum composite Graduate Record Examination (GRE) score of 1000 or more as the sum of verbal and quantitative. When deficiencies in any of these areas exist, provisional acceptance may be granted when the candidate can provide other evidence acceptable to the Graduate Committee of adequate preparation for the program.

To receive the Master of Science in Sociology, a candidate must complete a total of 36 semester hours of graduate study, including 9 hours of core Sociology requirements (Advanced Statistics, Advanced Sociological Theory, and Advanced Research Methods), 15 hours in other graduate sociology courses, 6 hours of approved graduate electives from other disciplines, and 6 hours of either Thesis or Independent Research (the latter option requires independent research resulting in a faculty-approved research project, together with one or more articles reporting the research submitted to refereed sociological journals).

Following the completion of these requirements, the student must successfully complete oral and written comprehensive examinations administered by the Director of the Graduate Program and two additional members of the graduate faculty.

## **Course Descriptions**

### **Master of Science in Sociology**

#### **Required Core Courses**

#### **SOCI 6300 ADVANCED STATISTICS**

Advanced statistical methods with emphasis on higher levels of ANOVA, multiple correlation and regression, factor and path analysis. The course involves the utilization of social science computer programs in the analysis of large-scale survey data.

*Prerequisite: 3 semester hours of undergraduate statistics or consent of instructor.*

#### **SOCI 6301 ADVANCED SOCIOLOGICAL THEORY**

Examination of selected classical and contemporary sociological theories. *Prerequisite: 3 semester hours of undergraduate sociological theory or consent of instructor.*

**SOCI 6302 AVANCED RESEARCH METHODS**

Theory and application of quantitative and qualitative research methods to sociological data. *Prerequisites: 3 semester hours of graduate statistics and 3 semester hours of undergraduate research methods or consent of instructor.*

**General Courses****SOCI 6303 ADVANCED SOCIOLOGY TOPICS**

Graduate seminar devoted to investigative analysis and discussion of significant topics in contemporary sociology. Topics include organization, stratification, deviance, demography, social psychology, family, education, and urbanization. May be repeated for credit as topics vary.

**SOCI 6320 SURVEY OF GRADUATE SOCIOLOGY**

Graduate seminar devoted to investigation, analysis and discussion of significant aspects of contemporary Sociology and Sociological Theory. Intended as an overview of graduate-level Sociology.

**Gerontology****SOCI 6340 GERONTOLOGY SEMINAR**

Advanced issues in aging with special emphasis on demography, gerontological methods, theory and elderly Hispanics.

**SOCI 6341 GERONTOLOGY – SPECIAL TOPICS**

The impact of ethnicity as an explanatory variable in understanding the nature of the aging process. Emphasis given to how ethnicity shapes policy and delivery on behalf of older persons. Will include such topics as Ethnicity and Aging, Health Delivery Systems and the Family in Later Life. May be repeated for credit for up to 9 hours.

**Other****SOCI 6350 ADVANCED SOCIOLOGY OF EDUCATION**

An analysis of the relationship of the educational institution to society and the patterns of order, change and conflict that emerge. Current issues, such as bureaucratization of schools and problems of minorities in the schools are examined with regard to related sociological principles and theory. An applied project and report will be required. *Prerequisite: 9 hours of Sociology or consent of instructor.*

**Regional Studies****SOCI 6361 RACE AND ETHNIC RELATIONS**

Analysis of minority groups, including power relations. An analysis of patterns of majority-minority relations in the United States and around the world and relevant theoretical explanations.

**SOCI 6362 MEXICAN-AMERICAN SOCIETY**

An analysis of history, culture, and structural relations of Mexican Americans in the U.S. society.

**SOCI 6363 BORDERLANDS AND INTERAMERICAN TOPICS**

An in-depth examination of theoretical and research issues related to the U.S.-Mexico Borderlands and to relationships among the other American republics. Topics will include demographics, culture, structure development and historical issues of the borderlands and the American republics. May be repeated for credit up to 9 hours.

**SOCI 7300 THESIS I**

No credit assigned until thesis has been completed and filed, 3 hours credit.

**SOCI 7301 THESIS II**

No credit assigned until thesis has been filed, 3 hours credit.

**SOCI 7302 INDEPENDENT RESEARCH I**

Directed research in which the student writes a manuscript in lieu of the thesis. 3 hours credit. *Prerequisite: Consent of instructor.*

**SOCI 7303 INDEPENDENT RESEARCH II**

Directed research in which the student writes a manuscript in lieu of the thesis. 3 hours credit. *Prerequisite: Consent of instructor.*

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## **Spanish**

See Department of Modern Languages and Literatures

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## **Speech**

See Department of Communication

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## **Statistics**

See Department of Mathematics and Computer Science

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## **Theatre**

See Department of Communication

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## **The Honors Studies Program**

*Dr. Raymond Welch, Director*

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### **Purpose of Program**

The purpose of Honors Studies is to provide capable and interested students a means of enriching their college education. This purpose is achieved in two basic ways: by offering special honors classes at the freshman and sophomore level and by providing an independent study program in the student's major or related field of study at the junior and senior level. A student may major in any academic discipline and still participate in the Honors Studies Program without having to take additional hours for graduation.

### **Honors Classes**

Honors classes provide an ideal learning situation for the student. The classes are small — usually 20 students or less — and are attended by students with above average academic capabilities. The small class makes rapport between professor and student and between student and student a much easier matter, and both the small class and the homogeneous grouping greatly facilitate the intellectual exchange among class members. Such an atmosphere furnishes the student greater opportunity to function as an individual and the professor greater opportunity to utilize creative and innovative teaching techniques. Enrichment rather than acceleration is the main objective of honors classes. For the good student, honors classes are not necessarily more difficult, simply better: more stimulating, more exciting, more challenging, more interesting than many other offerings.

### **Independent Study**

Independent study furnishes the honors student an opportunity, while still an undergraduate, to work on a one-to-one basis with a professor. At the beginning of the junior year, honors students begin exploring topics of their own choice in their majors or related areas. This work is done under the supervision of a faculty member who possesses special expertise in the student's chosen area.



## **Admission Requirements**

There are three ways beginning freshmen win admission to the Honors Studies Program:

1. have a composite ACT score of 22 or higher (or SAT equivalent); or
2. graduate in the top 10 percent of their class; or
3. graduate with a 90 percent or higher grade average in academic courses.

Students who already have college credit may also apply for admission. College grades and recommendations from professors determine a college student's admission to the program. Any student who has earned 12 semester hours or more of college credit with at least a 3.0 GPA is eligible for admission to the Honors Studies Program. Contact the Honors Studies Office for additional information.

## **Scholarships**

The Honors Studies Program has a wide range of scholarships available for qualified students. Contact the Honors Studies Office or the Financial Aid Office for scholarship applications.

## **Honors Studies Curriculum**

In choosing honors classes at the freshman and sophomore level, students should refer to the suggested curriculum under their major and select honors classes to substitute for regular classes whenever feasible to do so.

For example, if the suggested curriculum for the major lists English 1301, 1302 and History 2313, 2314, students may take the comparable honors English 1387, 1388 and honors History 2387, 2388. In the case of science, foreign language and mathematics, some majors require specific classes in these areas while other majors do not. If the suggested curriculum guide simply lists foreign language or science or mathematics but does not indicate a specific class, students may wish to take one of the honors classes in these areas. Contact the Honors Studies Office for information on offerings in any given semester. The director can help interested students fit the Honors Studies Program into any major on campus.

## **Graduating Within the Framework of Honors Studies**

While many students may wish to take honors courses as enrichment experiences, there are specific requirements for graduation within the framework of Honors Studies:

1. Completion of the two honors seminars, Honors 2387 and 2388. The purpose of requiring Honors 2387 and 2388 is to give students a broad overview of their intellectual heritage, thus better enabling them to assimilate and relate the knowledge gleaned from their other courses and studies.
2. Completion of the Senior Honors Thesis. Students receive credit in Honors 3187, 3387 and 4387 for completion of the thesis. Independent study, leading to the Senior Honors Thesis, allows students to delve into a highly specialized area of knowledge of their own, thus giving them valuable experience as independent scholars. Students may receive credit in their major for Honors 4387.
3. An over-all grade point average of at least 3.0.

During the student's final semester, a faculty committee questions the student on the Senior Honors Thesis. Using the findings of this committee, the rating of the thesis adviser and the student's overall grade point average, the Director determines whether the honors student graduates with Distinction, High Distinction or Highest Distinction. Besides having the total Honors Studies achievement recorded on their transcripts, honors students receive special recognition at the graduation ceremony.

## **Inquiries About Honors Studies**

For applications or for further information about the Honors Studies Program, write the Director of Honors Studies Program, The University of Texas-Pan American, Edinburg, Texas 78539.

## **Course Descriptions**

### **Honors**

#### **HONR 2387 HUMANITIES I**

An interdisciplinary course that emphasizes cultural roots from ancient Greece through the Reformation. The course stresses the integration of the humanities (philosophy, painting, sculpture, architecture, literature, music) into the Western Civilization framework.

**HONR 2388 HUMANITIES II**

An interdisciplinary course that emphasizes cultural roots from the Baroque to the present. The course stresses the integration of the humanities (philosophy, painting, sculpture, architecture, literature, music) into the Western Civilization framework.

**HONR 3187 PROBLEMS IN INDEPENDENT STUDY**

This course is an introduction to basic problems encountered in independent study. It further aids the student in choosing a topic for independent study, in setting up objectives for the study and preparing a prospectus.

**HONR 3387 INDEPENDENT STUDY**

Supervised independent study at the junior level in the student's major or related fields, with periodic meetings for coordination, instruction in methodology and discussion.

**HONR 4387 INDEPENDENT STUDY**

Supervised independent study at the senior level in the student's major or related field, with periodic meetings for coordination, instruction in methodology and discussion. Completion of honors thesis.

### Departmental Courses, Honors

Art 1387: Art Appreciation

Biology 1487, 1488: General Biology

Communication 1387: Speech Communication

Communication 2387: Theatre Appreciation

Economics 1387: Introduction

English 1387, 1388: Freshman Rhetoric and Composition

English 2387, 2388: World Literature

History 2387, 2388: American Heritage

Mathematics 1387: College Algebra

Mathematics 1388: Pre-Calculus

Philosophy 1387, 1388: Introduction to Philosophy and Logic

Physical Science 1487 and 1488: Introduction

Physics 1487 and 1488: General Physics

Political Science 2387, 2388: U.S. and Texas Government

Psychology 1387, 1388: Introductory and General Psychology

Sociology 1387: Principles of Sociology

Spanish 1387, 1388: Beginning Spanish

**Concurrent Enrollment Plan**

Administered by the Honors Studies Program, Concurrent Enrollment provides advanced and high-ranking high school students the opportunity to enroll in selected University courses. For additional information, see the discussion on "University Credit for High School Students" under the Admissions section of this catalog.

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## Special Programs

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The University of Texas-Pan American offers non-credit continuing education courses in a variety of areas, including real estate, management, accounting and use of personal computers. These and other courses are administered through the Center for Continuing Education and Off-Campus Instruction. Fees are normally charged for these courses because such programs must be self-supporting. Many of the courses carry continuing education units.

### Center for Continuing Education and Off-Campus Instruction

The University of Texas-Pan American's mission includes "instructional and continuing education programs designed to serve the needs of citizens throughout the service area."

#### Non-Credit Continuing Education Courses

The Center for Continuing Education and Off-Campus Instruction conducts seminars, short courses, conferences and programs for the public, business/industry, professionals, public/private school districts and government agencies. The role of this office is to offer a wide range of continuing education and professional development programs. There are six major areas:

**General Adult Education Programs** offer short courses for personal and professional enrichment in areas such as professional computing, language training, money management, fine arts, recreational/health/fitness instruction and grammar/writing/mathematics improvement. Classes are usually offered as needed with instructors coming from the university and community.

**Professional Improvement Programs** are designed for the business, industry and educational communities and address the training needs of professionals in these service areas. Qualified instructors will come from the appropriate university academic areas or from the professional community.

**Youth Programs** include programs such as College for Kids and the Challenge Program. College for Kids is a summer program which offers students entering the 6th through the 12th grades an opportunity to participate in a non-traditional experience in areas such as academic exploration, basic skills improvement, fine arts, personal enrichment and recreation. The Challenge Program has been designed to provide accelerated learners and gifted students with educational enrichment beyond the everyday classroom experience. This program strongly encourages parental involvement and participation. Both university and community professionals are employed as instructors for each of these programs.

**Senior Programs** offer week-long study programs for visiting and local adults in the area. Participants take specially designed courses on a variety of topics instructed by local experts and professionals from both the university and the local community.

**The English Language Institute** conducts both intensive and semi-intensive, non-credit English programs for non-native speakers of English. The intensive courses are primarily directed toward assisting students to acquire the academically oriented English needed to gain admission to The University of Texas-Pan American and/or other institutions of higher learning in the United States. Instructors at the English Language Institute have degrees in one or more of the following areas: English as a Second Language, English, Spanish, Education and/or Linguistics.

**Travel Study Programs** offer students the opportunity to experience, first-hand, the history, language and culture of a foreign country or further explore regions of the United States. Students may enroll for non-credit Continuing Education Units (CEUs) or college credit.

#### Outreach Credit Courses

The Center for Continuing Education and Off-Campus Instruction administers the Outreach Credit Course Program for The University of Texas-Pan American. Presently, four outreach locations are approved for the scheduling of course offerings. They are Rio Grande City, La Joya, La Sara and Weslaco. Credit courses are requested by the site coordinators from each

location. More than 20 credit courses, combined, were offered at the four outreach locations for the 1992-93 academic school year.

## **High School Equivalency Program**

The High School Equivalency Program (H.E.P.) serves the migrant/seasonal farmworker 17 years of age or over who has done migrant/seasonal farm-related work totaling at least 75 days within the last two years and who has not completed high school.

H.E.P. is concerned with the successful achievement of the G.E.D. exam and sustained employment or enrollment in training programs (college, military, etc.).

H.E.P. provides students with daily instruction in five subject areas (grammar, literature, mathematics, science, and social studies) in a small classroom setting. The academic program is individualized to help each student progress at the student's own pace.

Also available to H.E.P. students are University I.D.s, textbooks, individual tutoring, stipends, computer labs, transportation expenses (when applicable), ESL instruction and medical services. Room and board is available to students with transportation problems.

Supportive services provided by H.E.P. include personal and career counseling, job placement and classes in life management skills.

H.E.P. students who cannot attend classes during the day are offered instruction at an evening satellite program tailored to their nighttime schedule. For more information, call H.E.P. at 210/381-2521.

## **Upward Bound Program**

Upward Bound is a federally funded program for low-income, potential first generation college students. The program offers sophomore, junior- and senior-level students from participating high schools academic instruction and counseling to those who require academic assistance and show potential for success in a post-secondary institution.

The program acquaints students with a university setting and provides them with the skills necessary for success in a post-secondary institution through a curriculum of reading, writing, math and science enrichment and a counseling program designed to increase self-awareness, motivation and career exploration. Students attend classes on Saturday during the academic year and on a daily basis during the first summer session.





The University of Texas  
Pan American

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