

THE UNIVERSITY OF TEXAS PAN AMERICAN



2009-2011 GRADUATE CATALOG



The University of Texas-Pan American 2009 - 2011 Graduate Catalog

The University of Texas-Pan American is accredited by and complies with the policies of the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, GA 30033, telephone 404/679-4501) to award bachelor's, master's and doctoral degrees.

In addition, these programs are separately accredited or approved by the:

Accreditation Council for Occupational Therapy Education (ACOTE)-
American Occupational Therapy Association

The Association to Advance Collegiate Schools of Business (AACSB International)

American Chemical Society

Commission on Accreditation for Dietetics Education (CADE)

American Speech-Language-Hearing Association (ASHA)

Council on Academic Accreditation in Audiology and Speech-Language Pathology (CAA)

Commission for Collegiate Nursing Education
Board of Nurse Examiners for the State of Texas

American Association of Colleges of Nursing (AACN)

The Council on Rehabilitation Education (CORE)

The Council on Social Work Education (CSWE)

Engineering Accreditation Commission of the
Accreditation Board for Engineering and Technology (ABET)

National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)

National Association of Schools of Theatre (NAST)

State Board for Educator Certification (SBEC)

Texas Education Agency (TEA)

Accreditation Review Commission on Education for the Physician Assistant (ARC-PA)

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American Association of Colleges for Teacher Education
American Association of State Colleges and Universities
American Council on Education
Association for Continuing Higher Education
Conference of Southern Graduate Schools
Council for Advancement and Support of Education
Council of Graduate Schools
Hispanic Association of Colleges and Universities

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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 that does not discriminate because of a student's or prospective student's race, color, religion, sex, national origin, age, veteran status, disability or other characteristics that 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 University of Texas System or any of its component institutions on the basis of race, color, national origin, religion, sex, age, veteran status, disability, or sexual orientation.

Inquiries or complaints may be directed to the immediate supervisor or to the compliance officer in Room 5.101, Student Services Building, telephone 956/381-2121; the chair of the department; or the dean of students in Room 104, University Center, telephone 956/381-2260. Inquiries concerning ADA should be directed to the coordinator of services for persons with disabilities in Room 100, Emilia Schunior Ramirez Hall, telephone 956/316-7005.

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 "Student Complaint Procedures" and "Grievance Policy for Complaints Concerning Discrimination on the Basis of Disability" found in the University's Handbook of Operating Procedures.

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

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Calendar

2009-2011

Dates and deadlines for applications for student loans, scholarships or other financial aid are set in Student Financial Services and are listed in the Financial Assistance section of this catalog.

For ACT, TSI, GRE, GMAT and other test information, contact the University Testing Center at 956/292-7584, ext. 7585, or e-mail: testing@utpa.edu.

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

NOTE: For financial aid purposes, the miniterm will be processed as part of summer I, and all summer I deadlines apply.

Fall 2009

April 6, 2009, Monday (tentative)

ASSIST registration (Web) begins by appointment for fall 2009.

April 17, 2009, Friday

Deadline to file Application for Degree Form with the Office of the Registrar for December 2009 graduation.

August 28, 2009, Friday

Housing move-in begins at 9 a.m.
Cafeteria is open for lunch and dinner.

August 31, 2009, Monday

First day of classes.

September 7, 2009, Monday

Labor Day holiday, no classes, campus closed.
Cafeteria is open.

September 16, 2009, Wednesday

Twelfth class day, census date.
Courses dropped by this date do not count toward six course-drop limit.

September 18, 2009, Friday

Deadline to file Application for Degree Form with the Office of the Registrar for May 2010 graduation.

September 29, 2009, Tuesday

Last day to change to non-credit.

November 2, 2009, Monday (tentative)

ASSIST registration (Web) begins by classification for Spring 2010.

November 12, 2009, Thursday

Last day to drop a course or withdraw from the University with a grade of "DR" or "W" recorded.
After this date student remains enrolled in course(s) and receive whatever letter grade he/she earns.

November 26-28, 2009, inclusive

Thanksgiving holiday, no classes.
Cafeteria is closed Thursday through Saturday.

November 29, 2009, Sunday

Residence Halls reopen at noon.
Cafeteria is open for dinner only.

December 4, 2009, Friday

Deadline to file Application for Degree Form with the Office of the Registrar for July 2010 graduation.

December 10-11, 2009, inclusive

Study days, no classes or final examinations.

December 12-18, 2009, inclusive

Fall semester final examinations.

December 18, 2009, Friday

Residence Halls close at 6 p.m.
Cafeteria is open for breakfast and lunch only.

December 19, 2009, Saturday

Commencement exercises.

December 21, 2009, Monday

Fall final grades to be entered by faculty no later than 3 p.m.

Spring 2010

September 18, 2009, Friday

Deadline to file Application for Degree Form with the Office of the Registrar for May 2010 graduation.

November 1, 2009 Sunday

Admission application and document deadline for international students.

November 2, 2009, Monday (tentative)

ASSIST registration (Web) begins by classification for Spring, 2010.

January 3, 2010, Sunday

Admission application and document deadline for late registration. Applications received after this deadline will be processed for the next semester.

January 12, 2010, Tuesday

Housing move-in begins at noon.
Cafeteria is open for dinner only.

January 18, 2010, Monday

Martin Luther King Jr. Day holiday, no classes, campus closed.

January 19, 2010, Tuesday

First day of classes.

January 22, 2010, Friday

Deadline to file Application for Degree Form with the Office of the Registrar for August 2010 graduation.

February 3, 2010, Wednesday

Twelfth class day, census date.
Courses dropped by this date do not count toward six course-drop limit.

February 17, 2010, Wednesday

Last day to change course to non-credit.

March 12, 2010, Friday

Residence Halls close for Spring Break at 6 p.m.
Cafeteria is open for breakfast and lunch only.

March 18-20, 2010, inclusive

Cafeteria is closed.

March 15-20, 2010, inclusive

Spring Break, no classes.

March 21, 2010, Sunday

Residence Halls reopen at noon.
Cafeteria is open for dinner only.

April 2-3, 2010, inclusive

Easter holiday, no classes.

April 5, 2010, Monday (tentative)

ASSIST registration (Web) begins by appointment for Fall, Miniterm, Summer I, and Summer II 2010.

April 9, 2010, Friday

Last day to drop a course or withdraw from the University with a grade of "DR" or "W" recorded.
After this date student remains enrolled in course(s) and receive whatever letter grade he/she earns.

April 16, 2010, Friday

Deadline to file Application for Degree Form with the Office of the Registrar for December 2010 graduation.

May 6-7, 2010, inclusive

Study days, no classes or final examinations permitted.

May 8-14, 2010, inclusive

Second semester final examinations.

May 14, 2010, Friday

Residence Halls close at 6 p.m.
Cafeteria is open for breakfast and lunch only.

May 15, 2010, Saturday

Commencement exercises.

May 17, 2010, Monday

Final grades to be entered by faculty no later than 3 p.m.

Miniterm 2010

May 16, 2010, Sunday

Housing move-in begins at 9 a.m.

May 17, 2010, Monday

First day of classes.

May 18, 2010, Tuesday

Second class day, census date.
Courses dropped by this date do not count toward six course drop limit.

May 27, 2010, Thursday

Last day to drop a course or withdraw from the University with a grade of "DR" or "W" recorded. After this date student remains enrolled in course(s) and receive whatever letter grade he/she earns.

May 31, 2010, Monday

Memorial Day holiday, no classes, campus closed.

June 2, 2010, Wednesday

Last class day for miniterm.

June 3, 2010, Thursday

Study day, no classes or final examinations.

June 4, 2010 Friday

Miniterm final examinations.
Residence Halls close at 6 p.m.

June 7, 2010, Monday

Miniterm final grades to be entered by faculty no later than 3 p.m.

August 21, 2010, Saturday

Commencement exercises.

Summer I 2010

December 4, 2009, Friday

Deadline to file Application for Degree Form with the Office of the Registrar for July 2010 graduation.

April 5, 2010, Monday (tentative)
ASSIST registration (Web) begins by classification for fall, miniterm, summer I, and summer II 2010.

June 6, 2010, Sunday
Housing move-in begins at 9 a.m.

June 7, 2010, Monday
First day of classes for summer I classes.

June 10, 2010, Thursday
Fourth class day, census date.
Courses dropped by this date do not count toward six course-drop limit.

June 16, 2010, Wednesday
Last day to drop to change course to non-credit.

July 1, 2010, Thursday
Last day to drop a course or to withdraw from the University with a grade of "DR" or "W" recorded; after this date student remains enrolled in course(s) and receive whatever letter grade he/she earns.

July 4, 2010, Sunday
Fourth of July.

July 9, 2010, Friday
Last day of classes.

July 12, 2010, Monday
Summer I final examinations.
Residence Halls close at 6 p.m.
Cafeteria open for breakfast and lunch only.

July 14, 2010, Wednesday
Summer I final grades to be entered by faculty no later than 3 p.m.

August 21, 2010, Saturday
Commencement exercises.

Summer II 2010

January 22, 2010, Friday
Deadline to file Application for Degree Form with the Office of the Registrar for August 2010 graduation.

April 5, 2010, Monday (tentative)
ASSIST registration (Web) begins by classification for fall, miniterm, summer I, and summer II 2010.

July 9, 2010, Friday
Housing move-in begins at 9 a.m.

July 14, 2010, Wednesday
First day of classes.

July 19, 2010, Monday
Fourth class day, census date.
Courses dropped by this date do not count toward six course drop limit.

July 23, 2010 Friday
Last day to change course to non-credit.

August 6, 2010, Friday
Last day to drop a course or withdraw from the University with a grade of "DR" or "W" recorded. After this date student remains enrolled in course(s) and receive whatever letter grade he/she earns.

August 17, 2010, Tuesday
Last day of classes.

August 18, 2010, Wednesday
Study Day, no classes or final examinations.

August 19, 2010, Thursday
Summer II final examinations.
Residence Halls close at 6 p.m.
Cafeteria open for breakfast and lunch only.

August 20, 2010 Friday
Final grades to be entered by faculty no later than 5 p.m.

August 21, 2010, Saturday
Commencement exercises.

Summer III 2010 10-week Session

June 7, 2010, Monday
First day of classes for Summer III classes.

June 15, 2010, Tuesday
Seventh class day, census date.
Courses dropped by this date do not count toward six course drop limit.

July 3-5, 2010, inclusive
Midterm break and Fourth of July holiday, no classes for Summer III courses.

July 28, 2010, Wednesday
Last day to drop a course or withdraw from the University with a grade of "DR" or "W" recorded. After this date student remains enrolled in course(s) and receive whatever letter grade he/she earns.

August 16, 2010, Monday
Last class day for Summer III.

August 17, 2010, Tuesday
Study Day, no classes, no final examinations.

August 18, 2010, Wednesday
Summer III final examinations.

August 19, 2010, Thursday
Summer III final grades to be entered by faculty not later than 5:00p.m.

August 21, 2010, Saturday
Commencement exercises.

Fall 2010

April 5, 2010, Monday (tentative)
ASSIST registration (Web) begins by classification for Miniterm, Summer I, Summer II, Summer III, and Fall 2010.

April 16, 2010, Friday
Deadline to file Application for Degree Form with the Office of the Registrar for December 2010 graduation.

August 27, 2010, Friday
Housing move-in begins at 9 a.m.
Cafeteria is open for lunch and dinner.

August 30, 2010, Monday
First day of classes.

September 6, 2010, Monday
Labor Day holiday, no classes, campus closed.
Cafeteria is open.

September 15, 2010, Wednesday
Twelfth class day, census date.
Courses dropped by this date do not count toward six course-drop limit.

September 17, 2010, Friday
Deadline to file Application for Degree Form with the Office of the Registrar for May 2011 graduation.

September 28, 2010, Tuesday
Last day to change course to non-credit.

November 1, 2010, Monday (tentative)
ASSIST registration (Web) begins by appointment for Spring 2010.

November 11, 2010, Thursday
Last day to drop courses or withdraw from the University with a grade of "DR" or "W" recorded.
After this date student remains enrolled in course(s) and receive whatever letter grade(s) he/she earns.

November 24, 2010, Wednesday
Residence Halls close at 6 p.m.
Cafeteria is open for breakfast and lunch only.

November 25-27, 2010, inclusive
Thanksgiving holiday, no classes.
Cafeteria is closed Thursday through Saturday.

November 28, 2010, Sunday
Residence Halls reopen at noon.
Cafeteria is open for dinner only.

December 3, 2010, Friday
Deadline to file Application for Degree Form with the Office of the Registrar for July 2011 graduation.

December 9-10, 2010, inclusive
Study days; no classes or final examinations.

December 11-17, 2010, inclusive
Fall semester final examinations.

December 17, 2010, Friday
Residence Halls close at 6 p.m.
Cafeteria is open for breakfast and lunch only.

December 18, 2010, Saturday
Commencement exercises.

December 20, 2010, Monday
Fall final grades to be entered by faculty no later than 3 p.m.

Spring 2011

September 17, 2010, Friday
Deadline to file Application for Degree Form with the Office of the Registrar for May 2011 graduation.

November 1, 2010, Monday (tentative)

1. ASSIST registration (Web) begins by appointment for Spring 2011.
2. Admission application and document deadline for international students.

January 3, 2011, Monday
Admission application and document deadline for late registration. Applications received after this deadline will be processed for the next semester.

January 15, 2011, Saturday
Housing move-in begins at noon.
Cafeteria is open for dinner only.

January 17, 2011, Monday
Martin Luther King Jr. Day holiday, no classes, campus closed.

January 18, 2011, Tuesday
First day of classes.

January 21, 2011, Friday

Deadline to file Application for Degree Form with the Office of the Registrar for August 2011 graduation.

February 2, 2011, Wednesday

Twelfth class day, census date.

Courses dropped by this date do not count toward six course-drop limit.

February 16, 2011, Wednesday

Last day to change a course to non-credit.

March 11, 2011, Friday

Residence Halls close for Spring Break at 6 p.m.

Cafeteria is open for breakfast and lunch only.

March 12-19, 2011, inclusive

Cafeteria is closed.

March 14-19, 2011, inclusive

Spring Break, no classes.

March 20, 2011, Sunday

Residence Halls reopen at noon.

Cafeteria is open for dinner only.

April 4, 2011, Monday (tentative)

ASSIST registration (Web) begins by appointment for Miniterm, Summer I, Summer II, Summer III, and Fall 2008.

April 8, 2011, Friday

Last day to drop courses or withdraw from the

University with a grade of "DR" or "W" recorded.

After this date student remains enrolled in course(s) and receive whatever letter grade(s) he/she earns.

April 15, 2011, Friday

Deadline to file Application for Degree Form with the Office of the Registrar for December 2011 graduation.

April 22-23, 2011, inclusive

Easter holiday, no classes.

May 5-6, 2011, inclusive

Study days, no classes or final examinations.

May 7-13, 2011, inclusive

Second semester final examinations.

May 13, 2011, Friday

Residence Halls close at 6 p.m.

Cafeteria is open for breakfast and lunch only.

May 14, 2011, Saturday

Commencement exercises.

May 16, 2011, Monday

Final grades to be entered by faculty no later than 3 p.m.

Miniterm 2011

May 15, 2011, Sunday

Housing move-in begins at 9 a.m.

May 16, 2011, Monday

First day of classes for Miniterm.

May 17, 2011, Tuesday

Second class day, census date.

Courses dropped by this date do not count toward six-course drop limit.

May 27, 2011, Friday

Last day to drop courses or withdraw from the University with a grade of "DR" or "W" recorded.

After this date student remains enrolled in course(s) and receive whatever letter grade(s) he/she earns.

May 30, 2011, Monday

Memorial Day holiday, no classes, campus closed.

June 1, 2011, Wednesday

Last class day for Miniterm.

June 2, 2011, Thursday

Study day, No classes or final examinations.

June 3, 2011, Friday

Miniterm final examinations.

Residence Halls close at 6 p.m.

June 6, 2011, Monday

Miniterm final grades to be entered by faculty no later than 3 p.m.

August 20, 2011, Saturday

Commencement exercises.

Summer I 2011

December 3, 2010, Friday

Deadline to file Application for Degree Form with the Office of the Registrar for July 2011 graduation.

April 4, 2011, Monday (tentative)

ASSIST registration (Web) begins by appointment for Miniterm, Summer I, Summer II, Summer III, and fall 2011.

June 5, 2011, Sunday

Housing move-in begins at 9 a.m.

June 6, 2011, Monday

First day of classes for Summer I classes.

June 9, 2011, Thursday

Fourth class day, census date.

Courses dropped by this date do not count toward six course drop limit.

June 15, 2011, Wednesday

Last day to change course to non-credit.

June 30, 2011, Thursday

Last day to drop courses or withdraw from the University with a grade of "DR" or "W" recorded. After this date student remains enrolled in course(s) and receive whatever letter grade(s) he/she earns.

July 4, 2011, Monday

Fourth of July holiday, no classes, campus closed.

July 8, 2011, Friday

Last class day for Summer I.

July 11, 2011, Monday

Summer I final examinations.
Residence Halls close at 6 p.m.
Cafeteria opens for breakfast and lunch only.

July 12, 2011, Tuesday

Summer I final grades to be entered by faculty no later than 3 p.m.

August 20, 2011, Saturday

Commencement exercises.

Summer II 2011

January 21, 2011, Friday

Deadline to file Application for Degree Form with the Office of the Registrar for August 2011 graduation.

April 4, 2011, Monday (tentative)

ASSIST registration (Web) begins by appointment for Miniterm, Summer I, Summer II, Summer III, and Fall 2011.

July 12, 2011, Tuesday

Housing move-in begins at 9 a.m.

July 13, 2011, Wednesday

First day of classes for Summer II.

July 18, 2011, Monday

Fourth class day, census date.
Courses dropped by this date do not count toward six course drop limit.

July 22, 2011, Friday

Last day to change course to non-credit.

August 5, 2011, Friday

Last day to drop courses or withdraw from the University with a grade of "DR" or "W" recorded.

After this date student remains enrolled in course(s) and receive whatever letter grade(s) he/she earns.

August 16, 2011, Tuesday

Last day of classes.

August 17, 2011, Wednesday

Study day, no classes or final examinations.

August 18, 2011, Thursday

Summer II final examinations.
Residence Halls close at 6 p.m.
Cafeteria open for breakfast and lunch only.

August 19, 2011, Friday

Final grades to be entered by faculty no later than 3 p.m.

August 20, 2011, Saturday

Commencement exercises.

Summer III 2011 10 week Session

June 6, 2011, Monday

First day of classes for Summer III classes.

June 14, 2011, Tuesday

Seventh class day, official census date.

Courses dropped by this date do not count toward six course drop limit.

July 4-5, 2011, inclusive

Midterm break and Fourth of July holiday, no classes for Summer III courses.

July 27, 2011 Wednesday

Last day to drop a course or withdraw from the University with a grade of "DR" or "W" recorded. After this date student remains enrolled in course(s) and receive whatever letter grade(s) he/she earns.

August 15, 2011 Monday

Last class day for Summer III.

August 16, 2011, Tuesday

Study day, no classes or final examinations.

August 17, 2011, Wednesday

Summer III final examinations.

August 18, 2011, Thursday

Summer III final grades to be entered by faculty not later than 5 p.m.

August 20, 2011, Saturday

Commencement exercises.

The University of Texas Pan American

Overview

The University of Texas-Pan American is a comprehensive, public coeducational institution located in Edinburg, Texas, close to the Mexican border and Gulf of Mexico.

Mission

The University of Texas-Pan American serves the higher education needs of a rapidly growing, international, multicultural population in the South Texas region. The University preserves, transmits and creates knowledge to serve the cultural, civic, and economic advancement of the region and the state. The University provides students advanced instruction in academic programs offered through innovative delivery systems that lead to professional certification, and baccalaureate, master's and doctoral degrees. Through teaching, research, creative activity and public service, UTPA prepares students for lifelong learning and leadership roles in the state, nation and world community.

Vision

The University of Texas-Pan American is the premier learner-centered research institution in the state of Texas. We actively engage businesses, communities, cultural organizations, educational organizations, health providers and industry to find solutions to civic, economic, environmental and social challenges through inquiry and innovation.

Values

- We value ethical conduct based on honesty, integrity, and mutual respect in all interactions and relationships.
 - We value student access to higher education, recognizing their diversity and needs.
 - We value student success fostered through the commitment of faculty and staff.
 - We value a diversity of perspectives, experiences, and traditions as essential components of a quality education.
 - We value curiosity, exploration, inquiry, innovation, creativity, and an entrepreneurial spirit.
- We value collaboration with internal and external constituent groups.
- We value active involvement in shared governance, consensus-building, teamwork, and open communication.
 - We value our relationship as a united community of scholars, students, and staff, enriching each other's work and lives through our commitment to the advancement of UTPA.

Goals

- Provide students a quality educational experience that enables them to complete their educational goals in a timely fashion.
- Become an outstanding research institution, emphasizing collaborative partnerships and entrepreneurship.
- Enhance UTPA's engagement with the community to meet challenges and maximize opportunities.
- Collaborate with P-12 schools to enlarge the pool of applicants who are personally prepared and academically qualified for higher education.
- Infuse Inter-American and global perspectives throughout the University community.
- Optimize institutional effectiveness and efficiency consistent with high quality organizational standards.

University History

The University of Texas-Pan American has a rich tradition of educational service and community engagement. In the past eight decades it has undergone six name changes, all reflecting growth, achievement and success.

- 1927-1933** **Edinburg College** was founded as a two-year community college governed by the Edinburg School District. The original building housed 200 students and today is listed as a historical site in the city of Edinburg, the county seat for Hidalgo County.
- 1933-1948** **Edinburg Junior College**, as the only institution of higher learning in South Texas, experienced rapid growth in its early years prompting administrators to pursue the first name change.
- 1948-1952** **Edinburg Regional College** was moved from the original four-acre site to 186-acre campus a few blocks west. During the 1950s and 1960s the campus was purchased in parcels at a cost of \$677,000.
- 1952-1971** **Pan American College** made its transformation from a junior college to a four-year university in the early 1950s. The name Pan American was selected to reflect the institution's desire to bridge the cultures of North and South America and to reflect the cultural and ethnic diversity of the university.

1971-1989 Pan American University saw the student population diversify during the 1970s reflecting a predominantly Mexican-American population. *The Wall Street Journal* article credited Dr. Miguel Nevárez with creating a Hispanic middle class for the South Texas region.

1989-Present The University of Texas-Pan American was established in 1989 after the successful and historic merger of Pan American University with The University of Texas System. Today UTPA is one of the fastest growing universities in the UT System with a current enrollment of 17,500 students. The institution is poised to become a learner-centered doctoral research institution.

The Students

UT Pan American has one of the largest enrollments of Hispanic students among four-year colleges and universities in the United States. About 86 percent of the undergraduate students are Mexican-American, reflecting the demographic characteristics of the immediate region, the Rio Grande Valley.

In May 2008, *The Hispanic Outlook in Higher Education* reported that UTPA is second in the nation in the number of bachelor's degrees awarded to Hispanics and first in the state of Texas.

Enrollment in fall 2008 was 17,534. According to the Texas Higher Education Coordinating Board's "Closing the Gaps" target, the University will have a fall enrollment of 20,000 students by the year 2015.

Degrees and Programs

UT Pan American's six academic colleges—Arts and Humanities, Business Administration, Education, Health Sciences and Human Services, Science and Engineering, and Social and Behavioral Sciences—offer a wide range of degree options encompassing a comprehensive series of academic concentrations and selected areas of professional study.

Graduate Degrees

DOCTORAL DEGREES

College of Business Administration
Business Administration (Ph.D.)

College of Education
Educational Leadership (Ed.D.)

College of Health Sciences and Human Services
Rehabilitation Counseling (Ph.D.)
Pharmacy (Pharm.D.) in cooperation with
The University of Texas at Austin

MASTER'S DEGREES

College of Arts and Humanities
Art (MFA)
Communication (MA)
Creative Writing (MFA)
English (MA)
English as a Second Language (MA)
History (MA)
Music (MM)
Spanish (MA)
Theatre (MA)
Master of Arts in Interdisciplinary Studies (MAIS)
Concentrations in
English
History
Music
Spanish

College of Business Administration
Business Administration (MBA)
Accountancy (MACC)
Accounting (MSA)

College of Education
Bilingual Education (MEd)
Early Childhood Education (MEd)
Educational Administration (MEd)
Educational Diagnostician (MEd)
Educational Leadership (EdD)
Elementary Education (MEd)
Gifted and Talented Education (MEd)
Guidance and Counseling (MEd)
Kinesiology (Physical Education) (MS)
Reading (MEd)
Secondary Education (MEd)
School Psychology (MA)
Special Education for the Culturally
and Linguistically Diverse Learner (MEd)

College of Health Sciences and Human Services
Adult Health Nursing (MSN)
Communication Sciences and Disorders (MS)
Family Nurse Practitioner (MSN)
Occupational Therapy (MS)
Pediatric Nurse Practitioner (MSN)
Physician Assistant Studies (MPAS)
Rehabilitation Counseling (MS)
Social Work (MSSW)

College of Science and Engineering
Biology (MS)
Chemistry (MS)
Computer Science (MS)
Engineering (MSE)
Electrical
Manufacturing
Mechanical
Engineering Management
Information Technology (MSIT)

Mathematical Science (MS)
 Mathematics Teaching (MS)
 Master of Science in Interdisciplinary Studies (MSIS)
 Chemical Education
 Physics

College of Social and Behavioral Sciences

Criminal Justice (MSCJ)
 Clinical Psychology (MA)
 Experimental Psychology (MA)
 Public Administration (MPA)
 Sociology (MS)
 Master of Arts in Interdisciplinary Studies (MAIS)
 Concentrations in
 Anthropology
 Global Security Studies and Leadership

Certification Programs

College of Education

Graduate Teacher Education - Secondary Education
 Graduate Teacher Education - Kinesiology

Department of Curriculum and Instruction
 Reading Specialist

Department of Educational Psychology
 Licensed Professional Counselor

Department of Educational Leadership
 Principal's Credential
 Superintendent's Credential

Bachelor's Degrees

College of Arts and Humanities
 Art (BA, BFA)
 Communication
 Communication Studies (BA)
 Journalism (BA)
 Theatre (BA)
 Dance (BA)
 English (BA)
 French (BA)
 History (BA)
 Inter-American Studies
 (Latin-American Studies) (BA)
 Social Studies Composite 8-12 (BA)
 Mexican-American Heritage (BA)
 Music (BA, BM)
 Philosophy (BA)
 Spanish (BA)

College of Business Administration
 Accounting (BBA)
 Computer Information Systems (BBA)
 Economics (BA, BBA)
 Finance (BBA)

International Business (BBA)
 Management (BBA)
 Marketing (BBA)

College of Education
 Health (BS)
 Kinesiology (BS)
 Interdisciplinary Studies (BIS)

College of Health Sciences and Human Services
 Clinical Laboratory Sciences (BS)
 Communication Sciences and Disorders (BS)
 Dietetics (BS)
 Nursing (BSN)
 Physician Assistant Studies (BSPAS)
 Rehabilitative Services (BS)
 Rehabilitative Services — Addiction Studies (BS)
 Rehabilitative Services — Deaf Studies (BS)
 Social Work (BSW)

College of Science and Engineering
 Biology (BS)
 Chemistry (BS)
 Computer Science (BS), (BSCS)
 Computer Engineering (BSCMPE)
 Electrical Engineering (BSEE)
 Environmental Science (BS)
 Interdisciplinary Studies (BIS)
 Life Science 4-8
 Mathematics 4-8
 Manufacturing Engineering (BSMFGE)
 Mathematics (BS)
 Mechanical Engineering (BSME)
 Physics (BS)

College of Social and Behavioral Sciences
 Anthropology (BA)
 Criminal Justice (BSCJ)
 Political Science (BA)
 Psychology (BA, BS)
 Sociology (BA)

Interdisciplinary Bachelor's Degrees
 Applied Arts and Sciences — Liberal Arts (BAAS)*
 Applied Arts and Sciences —
 Business Technology (BAAS)*
 General Studies (BGS)*

* See the College of Social and Behavioral Sciences for information and advising.

Additional degree programs were being developed and approved at the time of publication.
 Contact the Graduate School
 or the Office of the Registrar
 for information about these new opportunities.

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The Graduate School

The University of Texas-Pan American is committed to providing a quality graduate education for students that includes knowledge of the literature of the discipline and ongoing engagement in research and/or appropriate professional practice and training experiences.

The Graduate School provides centralized coordination of and administrative leadership for all graduate programs. It oversees the process from marketing to prospective students, extending offers of admission to the university, and enrollment to certification of degrees.

The responsibilities of the Graduate School are to review policies related to graduate education; oversee application of current and subsequent graduate policy; assure implementation of graduate policy; assist in the development of new graduate programs; serve as a consultant for changes in graduate programs; approve thesis and dissertation formats as prescribed at the program level; publish theses and dissertations; assure establishment of graduate assistantship guidelines; facilitate a system of graduate advisement; maintain records of graduate faculty; advise the Graduate Council on graduate faculty status and propose matters of policy to the Council; work with the Graduate Council and function as a liaison between the Council and the Provost; and develop and review the Graduate Catalog.

Admission

Philosophy

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.

General Information

Admission requirements for graduate school are designed to admit students who have a high probability of success in graduate-level work at The University of Texas-Pan American. The University establishes minimum standards for admission to any graduate program.

Application to all graduate programs is made online through the Office of Graduate Studies at www.utpa.edu/gradschool.

Graduate degree programs are housed in academic departments. Each department establishes its own admission standards entrance requirements in consultation with the University Graduate Council. Graduate program or departmental requirements are in addition to the requirements for admission to the Graduate School.

Normally, all undergraduate 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 (courses numbered 5000-9000) must apply and be accepted for graduate study at UT Pan American. Students accepted for graduate study are also eligible to enroll in undergraduate courses.

Admission procedures and criteria specific to the master's and doctoral programs are described in the relevant sections of this catalog.

Important Contact Information

Office of Graduate Studies
Administration Building, Room 116
The University of Texas-Pan American
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: 956/381-3661 or 956/381-2207

Office of Payments and Collections
Student Services Building, Room 1.145
The University of Texas-Pan American
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: 956/381-2715

Office of the Registrar
Student Services Building, Room 1.150
The University of Texas-Pan American
1201 W. University Drive

Edinburg, Texas 78539-2999
Telephone: 956/381-2481

Student Financial Services
Student Services Building, Room 1.192
The University of Texas-Pan American
1201 W. University Drive
Edinburg, Texas 78539-2999
Phone: 956/381-2501

UTPA Testing Center
UTPA Annex Building
2412 S. Closner
Edinburg, TX 78539-2999
Telephone 956/292-7585

ETS Testing Information
www.ets.org

Application Deadlines

Complete application deadline information for graduate programs is available on the Graduate School website, www.utpa.edu/gradschool. Please note that deadlines vary among the programs.

International students may have more restrictive deadlines as a result of visa processing requirements. Please refer to the dates listed in the catalog as well as the UT Pan American Graduate School and International Studies Web sites.

For late registration, the deadline is usually 30 days before the beginning of the semester. Specific deadline dates for each semester are listed in the Schedule of Class and in the University Calendar beginning on page six of this catalog.

APPLICATION PROCESS

International students should refer to p. 18 for additional requirements.

In order to be admitted to a graduate program, the student must first meet all requirements for admission to the Graduate School of UT Pan American. Application for admission to the University must be submitted online. The application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

The application to graduate school consists of:

1. Application: Submitted online by the appropriate deadline.
2. Application Fee: Payment of the application fee of \$50 is submitted with the application. All application fees are non-refundable. For applicants to the Ph.D. in Business, the application fee is \$85.
3. Official Transcripts: Official college transcripts are required from each institution attended. The student is advised to request that the transcript(s) be sent directly to the

Graduate Office at the address listed on p. 16. If the applicant attended UT Pan American at any time, those official transcripts will be handled by the Graduate Studies office; however, the applicant is responsible for requesting official transcripts to be sent directly from all other institution(s).

4. Test Scores: GRE and GMAT test scores, if applicable, should be requested by the student to be sent directly to the Graduate School.

Each graduate program establishes its own admission standards in consultation with the University Graduate Council and may require additional documents which are submitted with the online application or submitted directly to the program office.

Official admission offers will be made only by the UT Pan American Graduate School and are valid only for the semester requested on the application. Students who are accepted but do not attend the semester requested on the application must submit an application for re-admission to enroll for a later semester. An additional application fee will be charged if the student reapplies more than one year from the semester originally requested. Some graduate programs may have additional requirements for delayed enrollment.

Failure to submit a complete/correct application and official transcripts from all institutions attended will result in one of the following: rejection of application, withdrawal of admission offer or disciplinary action including expulsion if the student is enrolled.

All submitted documents become the property of UT Pan American and will not be returned. Admission documents will remain on file for one year if the applicant does not attend the University. Documents will be retained for seven years for students enrolling in a master's level program and for 10 years for students enrolling in a doctoral program.

*Transcripts must be sealed and sent directly from the institution to be considered official. Transcripts will be considered unofficial if they are hand delivered by the applicant or third party regardless if sealed by the institution.

Admission Categories

Graduate Degree-Seeking Students

A graduate degree-seeking student admitted into a specific degree program will be evaluated on a series of criteria created by both the University and the graduate program to which the applicant is applying and will be classified under one of the four admission classifications (see Admission Classifications pg. 19).

Transfer Students

(Not applicable to doctoral students)

Students currently enrolled in graduate programs at other universities may apply to UT Pan American as transfer students to earn credit to transfer to the primary graduate school. To apply, the following must be submitted to the Graduate School:

1. A completed UT Pan American application and payment of the application fee.
2. A letter of approval for the enrollment from the dean of the graduate school or college to which the work will be transferred. This letter must be sent directly to the UT Pan American Graduate School.
3. Official transcript(s) of all graduate work.
4. An updated letter of approval is required each semester if the transfer period needed to complete the 12 hours exceeds one semester.

A graduate transfer student may enroll for a maximum of 12 graduate hours at UT Pan American.

Graduate Non-degree Seeking Students

Students wanting to take graduate coursework for professional improvement must submit a graduate application online, pay the required fees and submit an official transcript showing the awarding of a bachelor's or higher degree. This must be sent to the UT Pan American Office of Graduate Studies directly from the awarding institution. Non-degree seeking students applying for certification related to education are required to have transcripts sent from all institutions attended

Registration as a non-degree seeking student in a master's course requires the permission of the graduate program director or the department chair. Registration in doctoral courses requires acceptance to a doctoral program and/or approval of the vice provost for Graduate Studies and may require additional documentation.

International Students

An applicant is considered an international student if he or she is not a citizen of the United States or a permanent resident alien. Applicants who have permanent resident alien status do not apply as international students. All required documents must be on file in the Graduate School 90 days prior to the beginning of the semester for late registration or by the published application deadline for ASSIST telephone/Campus Pipeline/Web registration. International students must not only be accepted for graduate study, but must also submit the following:

1. International Student Application for Admission: This application requires official certification of sources of funds from the applicant.
2. Measurement of the English Language: Students whose native language is not English will be expected to provide test scores for either the Test of English as a Foreign Language (TOEFL) or the International English Language

Testing System (IELTS). Scores must be sent directly from the testing agency to the Graduate School. UT-Pan American will not accept residual TOEFL or IELTS exams taken at another institution. Students scoring below 500 on the TOEFL and below a 5.5 on the IELTS will not be eligible for admission. Students may make a written request to take an alternative English proficiency exam in place of the TOEFL or IELTS. This request must be approved by the UT Pan American Graduate School prior to consideration of the application.

3. English Translation of Educational Records: In addition to the official transcripts required for admission, an English translation must be included to allow for accurate interpretations. NOTE: See application.

4. Evaluation of Educational Records: In addition to providing a translated transcript, students must have their official transcript(s) evaluated by Foreign Credentials Service of American (FCSA). Additional information is available at www.fcsa.biz or 512/459-8428.

5. Proof of Mandatory Medical Insurance: Proof of medical insurance must be submitted to the Office of International Admissions and Services, Learning Assistance Center Room 156. The student will be billed if there is no proof of medical insurance. Please see insurance requirements on OIAS website.

◆ Procedure after Admission for International Students — Issuance of I-20

Upon completion of the application process, admitted applicants will be issued an I-20 by the international student advisor, who is the University's designated official to report the status of international students to the Immigration and Naturalization Service. Students then present the I-20 to the American Consulate or embassy in their home country to obtain a visa. International students are required to report any change in status immediately to the international student advisor, located at the Learning Assistance Center 156. Visit www.utpa.edu/oias or call 956/381-2922 for information.

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 I-20, visa and a valid foreign passport unless exempt from passport/visa requirements.

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.

Re-entry: A non-immigrant student may be readmitted to the University after a temporary absence of five months

or less from the United States, if the student is admissible. The student may be readmitted by presenting a valid foreign passport, a valid visa and either a new 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.

Transfer: A non-immigrant student is permitted to transfer to a different school provided that the transfer procedure is followed. To transfer to a different school, the student should first notify the school they are currently enrolled of the intent to transfer, and then obtain a SEVIS release form and an acceptance letter from the new school. Transfer will be in effect only if the student submits the SEVIS release form and the acceptance letter from the new school 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.

Extension of Stay: If the student cannot complete the educational program after having been in student status for the anticipated length of the program plus a grace period in a single educational level, the student must apply for extension of stay. An application for extension of stay is obtained at The Office of International Admissions and Services, Learning Assistance Center, room 156. The application must be submitted to the international student advisor at least 30 days but no more than 60 days before the expiration of the student's stay.

Admission Classifications by University Standards (Master's only)*

This section describes the criteria the applicant must meet in order to be eligible for a particular admission classification based on the University's minimum standards for graduate admission.

Upon submitting the University required documents for admission, the Graduate School will review the applicant's documents and determine the admission classification eligibility. The specific graduate program to which the student is applying will then be advised of the applicant's highest possible eligibility based on the University's standards.

A graduate program may admit a student into the program with a lower admission classification. The graduate programs will base admission decisions on the criteria established for that particular program. Graduate programs may not set standards lower than the University's standards.

The following admission classifications are based on a number of criteria such as, but not limited to, GPA calculation, degree standing from an accredited university, official/unofficial status of transcripts, etc. Departments are allowed to add criteria for admission into a particular program such as, but not limited to, test scores, letters of recommendation, essays, etc. Please contact the department chair, program director and refer to the appropriate program section in this for more information on additional document requirements for a particular graduate program.

* Admission classifications for doctoral students are listed in the respective program information.

Graduate Admission GPA Calculation

The Graduate Admission GPA is calculated as follows:

1. All academic work undertaken and grades or symbols assigned at each institution shall be reflected on the student's official transcript(s). No grade may be expunged, or excluded, from a student's record. An applicant who has earned a bachelor's degree under the "Academic Fresh Start" statute under the Texas Education Code, Paragraph 51.292, will be evaluated only on a grade point average of the coursework completed for that bachelor's degree and the other criteria stated herein. For more information on the Academic Fresh Start program, see the Undergraduate Catalog.

2. All grades for academic coursework assigned, including all grades in course which have been repeated, will be used in calculating the graduate admission grade point average, which can include any previous work in a graduate or professional school other than remedial or non-credit courses.

3. The GPA computation is based on a four-point scale (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).

4. A grade or symbol indicating failure (i.e., F, WF, DF) will count as hours undertaken, but no grade points will be earned.

5. 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.

6. The grade point average will be computed by multiplying each grade point (see 3. 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 (calculated to the 100th place) is the official cumulative grade point average for admission to graduate students.

Clear Admission

An applicant who meets the following criteria is eligible for clear admission to a graduate degree program:

1. Awarded a baccalaureate degree from an accredited institution.
2. Earned at least a 2.75 (on a 4.0 scale) on the Graduate Admission GPA calculation.
or
3. Earned a previous master's degree from an accredited university.

Conditional Admission

Students not eligible for Clear Admission may be admitted conditionally. Once the conditions are satisfied, the admissions classification will be updated to "clear."

Based on Academic Record

An applicant meeting the following criteria may be granted conditional admission:

1. Awarded a baccalaureate degree from an accredited institution.
2. Earned between a 2.5 and 2.74 (on a 4.0 scale) on the Graduate Admission GPA calculation.

An applicant granted conditional admission based on academic standing may not enroll for more than 12 graduate hours total while on conditional admittance. A student on conditional status who earns any graduate grade less than a "B" will not be allowed to continue in UT Pan American graduate programs. The student may appeal this decision to the Vice Provost of Graduate Studies, through the department chair or program director and the dean, who will each provide a recommendation on the appeal. The appeal must be in writing to the department chair or the program to which the student is applying and should provide an explanation of any extenuating circumstances to be considered. The vice provost's decision shall be final.

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

Based on Unofficial Documentation

Master's applicants may be granted conditional admission pending confirmation of a baccalaureate degree. The following apply:

1. The applicant has yet to be awarded a baccalaureate degree at time of admission but anticipates earning the degree prior to enrolling in a graduate degree program.
2. The applicant has submitted unofficial documents.*
3. The student meets the minimum GPA requirements.

Conditional admission is for one long semester or two consecutive summer semesters. A student who enrolls in a graduate course(s) will have started his or her conditional semester regardless of whether the student drops or withdraws during the semester. The student must provide degree confirmation prior to enrolling in future semesters. However, students may continue to register for future semesters with the understanding that they will be dropped from classes and the refund of payment may not be granted if conditional admission requirements are not met.

At the end of one long semester or two consecutive summer semesters of conditional admission, the student will be reclassified to one of the other admission classifications, including no admission, based on the official documentation received.

*Students accepted under conditional admission are responsible for contacting the Graduate School to verify receipt of documentation and to request reclassification of admission status.

Based on Graduate Program Requirements

1. Graduate programs may accept students on a conditional basis if additional requirements must be met before clear admission, i.e., completion of designated foundation coursework. These requirements will be conveyed to the student at the time of admission.

Once the graduate program requirements are met, the student will be reclassified into one of the other admission classifications, including no admission.

NOTE: Undergraduates seeking conditional admission should refer to the section on Reservation of Work by Undergraduates for Graduate Credit pg. 21 or 41.

No Admission

An applicant not meeting the minimum graduate admission requirements for the University or the admission criteria for the graduate degree program will not be admitted. However, admission to a graduate program is not guaranteed if a student meets these criteria as some programs may have enrollment limitations. The applicant may appeal this decision to the Vice Provost of Graduate Studies, through the department chair or program director and the dean, who will each provide a recommendation on the appeal. The appeal must be in writing to the department chair or the program to which the student is applying and should provide an explanation of any extenuating circumstances to be considered. The Vice Provost's decision shall be final. A student admitted as a result of an appeal will normally be granted conditional admission.

An applicant not admitted to the Graduate School may be eligible to enroll in undergraduate classes at the University after undergoing the proper admission process for undergraduate courses.

If an applicant is not admitted into one graduate degree program, the applicant may still be eligible for admission into another degree program if he or she has met all of the University's standards for admission. Please schedule an appointment with an academic advisor to discuss this option. Application to a different graduate program may require a new application for admission.

Procedure after Admission to the University for Graduate Study

Successful applicants will receive a letter of acceptance from the Graduate School. This letter will indicate the admission classification into a particular graduate degree program. If the applicant is not a degree-seeking student, the letter will indicate if they have been accepted by the University to pursue their academic goals.

An advisor from the graduate program will be appointed to counsel the student on registration, degree requirements and other procedures. Students should have their schedules approved each semester by their advisors (or an approved substitute) before registering for courses.

All graduate students must submit a Degree Plan outlining their coursework by the end of their first long semester of graduate coursework. The Degree Plan must

be signed by an advisor, department chair and dean then submitted to the Graduate School for inclusion in the student's official file.

Graduate students must keep a 3.0 GPA or higher on all graduate coursework in order to avoid probation or suspension.

Transfer of Graduate Credits to UT Pan American

A maximum of nine semester hours of appropriate graduate work earned at other institutions, subject to the approval of the director of the graduate program or chair of the major department and certification by the Graduate School, may be transferred to UT Pan American for degree credit. Individual graduate degree programs may accept fewer hours or have additional requirements.

A course may be transferred only if:

1. the course is equivalent to a graduate-level course at UT-Pan American or is appropriate for elective credit at the graduate level within the student's degree program,
2. the grade for the course is not less than "B,"
3. the course was not taken at such a date that it would extend the student's time for achieving the degree beyond the approval limit for the graduate program (seven years for a master's program and 10 years for a doctoral program).

Transfer of graduate credit is not automatic. The student must submit a written request for approval of transfer to the director of the graduate program or chair of the major department, who determines whether all the conditions for transfer have been met before the hours are added to the graduate degree plan. The transfer is completed when the student's Application for Degree form is approved by the dean of the college and the department specifies which course is to be transferred by prefix, name, course grade and indicates to the Graduate School the equivalency (providing that the student graduates within the approved time limit for the degree).

Reservation of Work by Undergraduates for Graduate Credit

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

1. The undergraduate student must lack no more than 12 hours 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 in two consecutive summer sessions, in which the student is taking the graduate courses.
3. Total enrollment, including undergraduate and graduate courses, must not exceed 15 hours in a regular semester, or 12 hours in two consecutive summer sessions.
4. The student has a minimum Graduate Admission GPA Calculation of 2.5 (on a 4.0 scale) on all work completed to date. (For information on the Graduate Admission GPA Calculation, see pg 20.)

5. The application for such graduate work is submitted to the Graduate School. Undergraduates cannot count their work in graduate courses toward the bachelor's degree. Such work will be reserved for credit toward a graduate degree.

Graduate 99 Hour Rule

A resident doctoral student who has a total of 100 or more semester credit hours of doctoral work at an institution of higher education is required to pay nonresident doctoral tuition rates.

Distance Learning Courses

UTPA offers two types of distance learning education courses in addition to the traditional classroom setting. Interactive video courses are identified by the letter "I" after the section number, and local Web delivery courses are identified by the letter "L" after the section number (i.e. ENG 1301.90I or ENG 1301.90L).

For further information, contact the course instructor, visit the Center for Online Learning, Teaching and Technology Web site at colt.utpa.edu or call 956/381-2979.

UT TeleCampus Courses

Some courses listed in this catalog are offered by UT Pan American via the UT TeleCampus. The UT TeleCampus is the centralized support center for online education throughout The University of Texas System. In the Web site you will find online classrooms, a digital library, free online tutorial services, 24/7 technical support, links to various admissions and register offices throughout the UT System and full program descriptions for the online courses and degrees the UT TeleCampus facilitates. Designated contacts at each campus are available to assist you as are the student services support staff of the UT TeleCampus. For questions or additional information, call toll-free: 1-888-TEXAS-16 (1-888-839-2716).

NOTE: To see a full listing of courses and host universities for the UTTC programs, access the UT TeleCampus Web site at <http://www.telecampus.utsystem.edu>.

Fiscal Policies

The cost of attending The University of Texas-Pan American is relatively low—approximately \$1,802 per semester in 2009-2010 for nine hours of required tuition and fees for a graduate student who is a resident of Texas. A large student financial aid program offering part-time employment, scholarships, grants and loans helps most students at UT Pan American meet the costs of attending college. For more information on financial aid, see the Financial Assistance section on page 28 of this catalog.

Financial Responsibility

State universities cannot extend credit. 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 on page 24.) 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 withdrawal from classes; the withholding of registration privileges, official transcripts, grades and degrees; University disciplinary action, and other penalties and actions authorized by law.

A student is only registered in the University and entitled to University privileges after 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.

Initial payment of registration fees may be made by personal check, money order payable to The University of Texas-Pan American, credit card (Visa, MasterCard and Discover only) or cash. Students are advised to exercise care in paying fees by check. When a bad check for registration fees is returned to the University, a \$15 returned check service charge is assessed, and the student is given 10 days from receipt of notice to make full payment by cash, cashier's check or money order. Failure to comply will result in the penalties described above.

◆ Residency Classification for Tuition Purposes

The Office of the Registrar is responsible for determining residence status of students for purposes of tuition. The office is guided by the Texas Education Code, 54.052, et seq., the Rules and Regulations for Determining Residence Status of the Texas Higher Education Coordinating Board, and University Regulations. Under the state statutes and regulations, for tuition purposes, a student or prospective student is classified either as a resident of Texas, nonresident (U.S. citizens from another state) or students who are citizens from another country.

- A resident of the state of Texas for tuition purposes is an individual who is either a U.S. citizen or Permanent Resident Alien who has lived and worked in the state of Texas for a period of 12 months prior to enrollment or is an individual (regardless of their immigration status) who graduated from a Texas high school, has resided in Texas for at least three years as of the date of that graduation and provides an affidavit stating that the individual will file an application to become a permanent resident at the earliest opportunity of eligibility.

- A nonresident for tuition purposes is a U.S. citizen or Permanent Resident Alien who has not lived and worked in the state of Texas for a period of 12 months prior to enrollment.

- A foreign student is a person who is a citizen of another country.

Residency for tuition purposes for a dependent is

established on the residency of the parents or legal guardian.

While these state requirements for establishing residency are complex and should be referred to in each particular circumstance, they generally require a minimum of 12 months of residing and gainful employment in Texas prior to enrollment.

Individuals classified as a non-resident or foreign students may qualify for resident tuition rates and other charges while continuing to be classified as a non-resident or a foreign student under the following exceptions:

- Students who receive academic competitive scholarships
 - Teaching or research assistants
 - Faculty employment
 - Special types of visas
 - Military

Information on residency, reclassification, tuition exceptions and waivers is available at the Office of the Registrar, Room 1.150 of the Student Services Building, telephone 956/381-2732 or 956/381-2209. Students are required to sign an oath of residency as part of the application process. Residency for tuition purposes will be based on this oath and other information/documents submitted by the student.

Tuition and Mandatory Fees

Tuition, fees and charges are assessed to students based on semester credit hours, asset charge per semester or specific services. The Texas Legislature, except for basic tuition, does not set the specific amount for any particular student fee. The student fees assessed are authorized by state statute; however, the University Administration and The University of Texas System Board of Regents make the specific fee amounts and the determination to increase fees. House Bill 3015 authorizes the governing boards of an institution of Higher Education to charge any student Designated Tuition in any amount necessary for the effective operation of the institution effective September 1, 2003. Texas Education Code, 54.504-Incidental fees and 55.16 Board Responsibility authorizes the governing board to fix and collect fees and charges.

Shown in the Fee Tables on page 25 are the required tuition and fees charged each semester:

- Tuition charges in 2009-2010 are \$100 per semester credit hour for resident graduate students and \$377 per semester credit hour for all non-resident graduate students and in 2010-2011, \$100 and \$377, respectively.
- Tuition Designated charges in 2009-2010 are \$101.70 per semester credit hour, with a maximum of \$1423.80 per semester, for all graduate students.
- Student Service Fee: Supports student activities such as intramural and intercollegiate athletics, the campus newspaper, student accident insurance, University Program Board, drama, dance group, Student Government Association, University Center and other student services as determined by the Board of Regents. At the time of the printing of this catalog, the fee is charged at \$14 per semester credit hour, up to a maximum of \$250 per regular semester or \$125 per

summer session.

- Student Union Fee: \$30 per student per regular semester and \$15 per student per summer session will be assessed to finance the construction and provide operational and maintenance support of the Student Union Building.
- Computer Access Fee: \$10.25 per semester credit hour is charged to fund costs incurred in providing access to and supervision of computer laboratories.
- International Education Fee: \$1 per semester is charged to assist students participating in international student exchanges or study programs.
- Recreation Fee: \$75/\$35 starting fiscal year 2008
- Registration Fee of \$10 per semester is charged to defray the cost of providing ASSIST services for registration.
- Library Technology Fee: \$2.25 per semester credit hour is charged to enhance student access to library information via technology.
- Medical Service Fee: \$23.10 per regular semester or \$11.55 per summer session is charged to fund Student Health Services.
- Utility Fee: \$2.85 per semester credit hour is charged to defray the rising cost of utilities.

NOTE: The Fee Tables on page 25 do not include required laboratory fees or individual instruction fees, which are listed with the individual course descriptions.

*All tuition and fee charges are subject to change. Students may consult the Schedule of Classes or contact the Office of Payments and Collections at 956/381-2715 for current information.

Course Specific Fees

- Art Course Fee: \$40 per course for studio art and art education and \$20 per course for art history. This fee is assessed to defray the cost of technology, materials, student assistants and visiting artists/critics.
- Biology Course Fee: \$15-\$36 will be assessed on biology courses to defray the costs of supplies, chemicals and costs associated with replacement of equipment.
- Chemistry Course Fee: \$24 will be assessed to defray cost of field trips, supplies, chemicals and costs associated with replacement of equipment to students enrolled in specific chemistry courses.
- Clinical Lab Science Course Fee: \$20-\$50 per course. This fee is assessed to defray the costs of consumable supplies, media, diagnostic reagents, chemicals and the clinical practicum cost.
- College of Education Field Experience Fee: \$25 per course. This fee is assessed to defray the cost of the field experience program.
- Communication Course Fee: \$40 for television, photography, and media publishing courses; \$20 for writing courses and \$5 for all other courses. This fee is assessed to defray the cost of supplies, materials and cost associated with the replacement of equipment and software.
- Computer Science Instruction Fee: \$5 per semester

credit hour for lower undergraduate level courses, \$7 per semester credit hour for upper undergraduate level courses and \$15 per semester credit hour for graduate level courses. This fee will be assessed on computer science courses to defray the cost of computer hardware, maintenance, lab monitors and software upgrades.

- Developmental Course Repeat Fee: \$100 per semester credit hour. This fee is assessed to defray the cost associated with students enrolled in an aggregate total of more than 18 semester hours of developmental courses.
- Dietetics Course Fee: \$15 will be assessed on specific dietetic courses to defray the cost of supplies, chemicals and costs associated with replacement of equipment.
- Distance Education Fee: \$25 per course will be assessed to students enrolled in distance learning courses offered through interactive video. Students enrolled in these courses may request fee waivers if special circumstances preclude them from using UTPA facilities, activities and/or student services on which a fee is based.
- Engineering Course Fee: \$5 per semester credit hour for lower undergraduate courses, \$13 per semester credit hour for upper undergraduate courses and \$18 per semester credit hour for graduate level courses. This fee is assessed to defray costs of lab equipment beyond that provided by the COS&E Technology Fee, and for supplies, maintenance of equipment, cost of software and other peripherals utilized.
- Excess Credit Hour Fee: \$90 per semester credit hour is assessed to defray the cost of providing instruction to students who have exceeded the required degree plan hours as described in the Texas Education Code §61.0595.
- Field Trip Fee: Varies based on actual transportation and related costs. This fee is assessed to defray the transportation and related costs associated with field trips.
- Individual Instruction Fees: For courses in art, communication and music that provide individual coaching or instruction, a fee of \$35 for a one- or two-hour course or \$60 for a four-hour course may be charged. Specific music courses are assessed \$2.
- Instrument Users Fee: \$10 will be assessed for Clinical Laboratory Science courses, \$25 to certain College of Education courses, and \$8-\$58 for specific music courses to support maintenance and equipment replacement costs.
- Kinesiology Activity Course Fees: \$6 will be assessed for all two-hour kinesiology activity courses. In the case of bowling, golf and scuba diving, there is an additional fee for the use of non-University facilities and equipment; the additional fees are subject to change at the discretion of the facility provider.
- Kinesiology and Dance Supply Replacement Fee: Actual cost. This fee is assessed to defray the cost of replacing lock, towel and baseball gloves.
- Laboratory Fees: \$2-30 may be assessed for each laboratory course depending upon cost of material used.
- Nursing Course Fee: \$27 per course is assessed to defray the costs of supplies, materials and other costs associated with the replacement of equipment and software.
- Nursing Testing Fee: The actual cost of testing will be assessed for standardized testing required by the Board of Nurse Examiners. This fee is non-refundable.
- Occupational Therapy Course Fee: \$30-\$100 will

be assessed to defray costs of supplies, chemicals and costs associated with replacement of equipment to students enrolled in specific courses.

- Optical Mixed-Media Fee: \$10 to defray the cost associated with producing CDs, DVDs, or other optical media used to supplement course instruction.
- Rehabilitation Course Fee: \$10 per course is assessed to defray the cost of supplies, chemicals and costs associated with replacement of equipment.
- Technology Fee: Students enrolled in the College of Business Administration or College of Science and Engineering will be assessed a fee to defray costs associated with technical support and software licensing. Fee rates will be:
 - College of Business Administration undergraduates, \$10 per three semester credit hours with a \$30 maximum; MBA graduates, \$15 per three semester credit hours with a \$45 maximum; Ph.D. graduates, \$25 per three semester credit hours with a \$75 maximum.
 - College of Science and Engineering Biology, chemistry, engineering and physics and geology: undergraduates, \$3 per semester hour; graduates, \$15 per semester credit hour. Mathematics: undergraduates, \$1 per semester credit hour; graduates, \$5 per semester credit hour.

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 be enrolled for a minimum of seven semester hours and must personally fill out a contract at the Office of Payments and Collections, Student Services Building, Room 115. Students already receiving some form of financial aid, including scholarships, are not eligible.

Eligible students may elect one of the following two options during fall and spring registration:

- Option A: Full payment on specified due date.
- Option B: Half payment on specified due date.
 - One-fourth payment before the sixth class week.
 - One-fourth payment before the 11th class week.

Once an option has been selected, it may not be changed; however, advance payments will be accepted. Students electing to pay in accordance with Option B must personally sign a promissory note. A nonrefundable tuition installment incidental charge of \$30 will be collected to defray the cost to the University of providing this delayed-payment service.

The law requires collection of the second and any subsequent installment before the class week indicated above. Late installments will be accepted during the first three class days of the class week indicated above, but a nonrefundable late payment charge of \$5 will be assessed in addition to the installment amount.

After the first three class days of the class week

Fall 2009-2010 Tuition and Fee Information

Fall 2010-2011 Tuition and Fee Information

Fee Table

Semester Credit Hours	Residents of Texas		NON-Residents of Texas	
	(Under graduate)	(Graduate)	(Undergraduate)	(Graduate)
1	340.45	268.45	617.45	647.15
2	516.80	397.80	1,070.80	1,155.20
3	693.15	527.15	1,524.15	1,663.25
4	869.50	656.50	1,977.50	2,171.30
5	1,045.85	785.85	2,430.85	2,679.35
6	1,222.20	915.20	2,884.20	3,187.40
7	1,398.55	1,044.55	3,337.55	3,695.45
8	1,574.90	1,173.90	3,790.90	4,203.50
9	1,751.25	1,303.25	4,244.25	4,711.55
10	1,927.60	1,432.60	4,697.60	5,219.60
11	2,103.95	1,561.95	5,150.95	5,727.65
12	2,280.30	1,691.30	5,604.30	6,235.70
13	2,456.65	1,820.65	6,057.65	6,743.75
14	2,633.00	1,950.00	6,511.00	7,251.80
15	2,712.35	2,079.35	6,867.35	7,658.15
16	2,791.70	2,208.70	7,223.70	8,064.50
17	2,871.05	2,338.05	7,580.05	8,470.85
18	2,948.40	2,465.40	7,934.40	8,875.20
19	3,013.75	2,580.75	8,276.75	9,267.55
20	3,079.10	2,696.10	8,619.10	9,659.90
21	3,144.45	2,811.45	8,961.45	10,052.25
22	3,209.80	2,926.80	9,303.80	10,444.60
23	3,275.15	3,042.15	9,646.15	10,836.95

Fee Table

Semester Credit Hours	Residents of Texas		NON-Residents of Texas	
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6	1,222.20	915.20	2,884.20	3,187.40
7	1,398.55	1,044.55	3,337.55	3,695.45
8	1,574.90	1,173.90	3,790.90	4,203.50
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17	2,871.05	2,338.05	7,580.05	8,470.85
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21	3,144.45	2,811.45	8,961.45	10,052.25
22	3,209.80	2,926.80	9,303.80	10,444.60
23	3,275.15	3,042.15	9,646.15	10,836.95

Summer Sessions

Fee Table

Semester Credit Hours	Residents of Texas		NON-Residents of Texas	
	(Under graduate)	(Graduate)	(Undergraduate)	(Graduate)
1	261.4	303.6	538.4	580.6
2	436.8	533.70	990.8	1087.70
3	614.1	765.70	1445.1	1596.70
4	790.45	996.75	1898.45	2104.75
5	966.8	1,227.80	2351.80	2612.80
6	1,143.15	1,458.85	2805.15	3120.85
7	1,319.5	1,689.90	3258.50	3628.90
8	1,495.85	1,920.95	3711.85	4136.95
9	1,671.2	2,151	4164.20	4644
10	1,833.55	2,368.05	4603.55	5138.05
11	1,995.9	2,585.10	5042.90	5632.10
12	2,158.25	2,802.15	5482.25	6126.15
13	2,320.6	3,019.20	5921.60	6620.20
14	2,482.95	3,236.25	6360.95	7114.25
15	2,548.3	3,351.60	6703.30	7506.60
16	2,613.65	3,466.95	7045.65	7898.95
17	2,679	3,582.30	7388	8291.30
18	2,744.35	3,697.65	7730.35	8683.65
19	2,809.7	3,813	8072.70	9076
20	2,875.05	3,928.35	8415.05	9468.35
21	2,940.4	4,043.70	8757.40	9860.70
22	3,005.75	4,159.05	9099.75	10253.05
23	3,071.1	4,274.40	9442.10	10645.40

Summer Sessions

Fee Table

Semester Credit Hours	Residents of Texas		NON-Residents of Texas	
	(Under graduate)	(Graduate)	(Undergraduate)	(Graduate)
1	261.4	303.6	538.4	580.6
2	436.8	533.70	990.8	1087.70
3	614.1	765.70	1445.1	1596.70
4	790.45	996.75	1898.45	2104.75
5	966.8	1,227.80	2351.80	2612.80
6	1,143.15	1,458.85	2805.15	3120.85
7	1,319.5	1,689.90	3258.50	3628.90
8	1,495.85	1,920.95	3711.85	4136.95
9	1,671.2	2,151	4164.20	4644
10	1,833.55	2,368.05	4603.55	5138.05
11	1,995.9	2,585.10	5042.90	5632.10
12	2,158.25	2,802.15	5482.25	6126.15
13	2,320.6	3,019.20	5921.60	6620.20
14	2,482.95	3,236.25	6360.95	7114.25
15	2,548.3	3,351.60	6703.30	7506.60
16	2,613.65	3,466.95	7045.65	7898.95
17	2,679	3,582.30	7388	8291.30
18	2,744.35	3,697.65	7730.35	8683.65
19	2,809.7	3,813	8072.70	9076
20	2,875.05	3,928.35	8415.05	9468.35
21	2,940.4	4,043.70	8757.40	9860.70
22	3,005.75	4,159.05	9099.75	10253.05
23	3,071.1	4,274.40	9442.10	10645.40

indicated above, late installments still will be accepted, but a nonrefundable reinstatement fee of \$25 will be assessed in addition to the installment amount.

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

- a. Being withdrawn from the University;
- b. Being barred from readmission to the institution;
- c. The withholding of the student's grades, degree and official transcript;
- d. all penalties and actions authorized by law.

Other Fees and Deposits

- **Auditing Fees:** \$20 nonrefundable fee will be charged if the instructor permits anyone to audit the course.

- **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. For more information, see Student Housing on page 62.

- **Catalog:** The first University Catalog is provided free students as long as supplies are available. The catalog is also available online.

- **Cooperative Pharmacy Program Application Fee:** \$60 is assessed to defray the cost associated with the Pharmacy Program application process and travel of faculty between UT Austin and UT Pan American for admission committee meetings.

- **Course Drop Fee:** \$5 nonrefundable fee is assessed to students dropping courses on the first day of classes and thereafter.

- **Diploma Replacement Fee:** \$20 will be charged to students who request the replacement of a diploma for replacement and duplication costs.

- **Emergency Loan Processing Fee:** \$20 nonrefundable fee to defray administrative costs incurred in processing and collecting emergency loan payments. (See page 34 for more on Emergency Loans.)

- **Engineering Magnetic Key Fee:** \$15 for magnetic cards (\$10 refundable) and \$25 for electronic cards (\$18 refundable).

- **Foreign Transcript Evaluation Fee:** \$80 to defray the cost associated with evaluation of foreign transcripts.

- **General Property Deposit:** \$20 one-time deposit to ensure against losses, damages or breakage in laboratories and libraries.

- **Graduate Admission Application Fee:** \$50 nonrefundable fee to defray the cost associated with recruitment and retention at the graduate level and the processing of application. The application fee for the Ph.D. in Business Administration is \$85.

- **Graduation Fee:** \$32 nonrefundable fee is assessed for undergraduate and graduate degrees. This fee is payable at the time the candidate presents the application for graduation to the Office of the Registrar. This fee is used to pay for processing the 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 to another semester will be required to pay an additional \$10 fee for each time they transfer.

- **Health Insurance Fee:** This is mandatory insurance for international students holding nonimmigrant visas and living in the United States. The fee is variable to match the premium for approved UT System Student Insurance Plan.

- **ID Card Replacement Fee:** \$7 nonrefundable fee for a replacement ID card. Entering students are provided a free University photo identification card. Students may pay the fee at the Office of Student Development, University Center, Room 205, when they request a replacement ID Card.

- **International Student Service Fee:** \$35 per semester is assessed to defray the cost of providing services to F-1 and J-1 students.

- **Late Payment Fee:** \$50 nonrefundable fee to defray the cost associated with the processing of late tuition and fee payments.

- **Late Registration Fee:** \$40 nonrefundable fee to defray the costs of late registration and extra services required.

- **Library Fees:** The fees are, for late book, \$0.25 per workday per book; lost book, Replacement cost plus \$15 processing fee; damage fee, \$5 if repairable in-house, \$12 if rebinding needed by commercial binder; late reserve material, \$0.50 per hour; late special collections book, \$1 per day; late vertical file/Annual Report item, \$1 per day; graduate carrel locker, \$10 per year; photocopy fee, \$0.20 per page; Interlibrary loan, actual cost; late equipment fee: up to \$0.50 per hour and not to exceed \$20 for equipment with value of up to \$100, \$1 per hour and not to exceed \$75 for equipment with value of \$101-\$300, \$2 per hour and not to exceed \$200 for equipment with value of \$301-\$600, \$3 per hour and not to exceed \$400 for equipment with value of \$601-\$1,200, \$4 per hour and not to exceed \$600 for equipment with value of \$1,201-\$2,000, and \$5 per hour and not to exceed \$800 for equipment with value of \$2,001-\$3,000; locker rental fee, \$.25; lost book returned without CD-ROM, cost of item plus \$15 processing fee; lost audio visual and computer materials, replacement cost plus \$15 processing fee. All library fees are paid at the Circulation Desk of the University Library.

- **New Student Fee:** \$50 fee is assessed to defray costs associated with new student advising and preregistration.

- **Orientation Deposit Fee:** \$15 nonrefundable deposit fee that will be credited against the New Student Fee if the student enrolls. This fee is assessed to defray the cost of providing students materials during orientation.

- **Parking Permit:** See Vehicle Registration and Operation Permit below.

- **Professional MBA Program Fees:** Fee is assessed to cover the program-related costs, including textbooks, supplies and guest lecturers. The amount varies based on actual costs.

- **Residence Hall Installment Charge:** See Student Housing on page 62.

- **Returned Check Charge:** \$15 nonrefundable service charge will be assessed to a student for each bad check. 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.).

- **Science Magnetic Key Fee:** \$15 for magnetic cards (\$10 refundable) and \$25 for electronic cards (\$18 refundable).

- **Short-Term Loan Fees:** \$5 processing fee and a \$5 late payment fee. (For more information on short-term loans, see page 34.)

- **Study Abroad and International Exchange Application and Program Fees:** \$125 application fee will be assessed to defray the cost of administering the programs in addition to the actual cost of travel, lodging, meals, instructional Honorarium and Enrollment. Program fees assessed will be the actual cost of Study Abroad or International Exchange Program. These fees are nonrefundable.

- **Student Liability Insurance:** All students enrolled in specific programs in the College of Health Sciences and Human Services, College of Education or College of Social and Behavioral Sciences must carry liability insurance. This is necessary in order for students to participate in clinical practicum activities associated with coursework. Fee assessed will reflect actual cost of insurance.

- **Student Union Game Room Late Payment Fee:** This fee is charged to defray the cost of processing late payments of recreation room charges. The fee is \$5 the first day plus \$1 per day after the first day to a maximum of \$10.

- **Teacher Alternative Certification Program Application Fee:** \$50 will be charged for processing applications for the Alternative Certification Program in the College of Education.

- **Teacher Certification Deficiency Plan Preparation Fee:** \$25 for enrolled students or \$40 for non-enrolled students will be charged to prepare a Teacher Certification Deficiency Plan in the College of Education.

- **Teacher Preparation Program Fee:** A \$40 one-time fee will be charged to defray costs related to services provided to the College of Education students seeking certification in the Teacher Preparation Program upon completion of 90 hours.

- **Texas Success Initiative (TSI) Activity Fee:** \$120 will be charged to students participating in the Learning Assistance Center's Texas Success Initiative (TSI). This fee supports non-course based developmental education activities.

- **Texas Success Initiative (TSI) Affected Student Advisement Fee:** \$45 per semester will be charged to students not cleared from TSI to defray the cost of advising.

- **TELESYS Account Fee:** Students are charged \$36 per year or \$17 per fall or spring semester and \$14 for both summer terms for 260 hours annually (pro-rated if paid by semester) of Internet access through a SLIP/PPP modem pool. The charges for 520 hours are \$72 per year or \$34 per fall or spring semester and \$28 for both summer terms. The charge for 1,040 hours is \$108 per year or \$42 per fall or spring semester and \$36 for both summer terms. Internet access for more than 1,040 hours annually is available at \$2 per hour. The fee is assessed only for those students who make use of the service.

- **Thesis Binding Fee:** Actual cost.

- **Tuition Installment Incidental Charge.**

- **University Testing Services Fee:** Fees may be charged for tests to defray the cost of administering and scoring academic tests. Accuplacer Test Fee-\$35; ACT Residual Test-\$50; Local Advanced Standing Examination Fee-\$20; CLEP Service Fee-\$20; Correspondence Exam-\$20; Institutional TOEFL-\$40; Miller Analogies Test-\$45; THEA-Quick Test-\$10; Texas Commission on Law Enforcement Officers Standards and Education-\$25; TExES Qualifying Exam-\$15. Please inquire at the University Testing Center, UTPA Annex, 2412 S. Closner, Edinburg, TX 78539-2999. Telephone 956/292-7584 or 7585. E-mail: testing@utpa.edu.

- **Vehicle Registration and Operation Permit (Parking Permit):** All students, whether full- or part-time, who operate a motor vehicle in the campus area must register the vehicle with the University Police Department. A hangtag permit or decal 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 \$39 if paid during the fall semester, \$30 if paid during the spring semester, \$22 during the first summer session and \$10.50 during the second summer session. There are no refunds after the 12th class day (fourth class day in the summer). Parking and Traffic rules and regulations are available at the University Police Department, or at <http://www.utpa.edu/police>.

NOTE: Unpaid fees that become overdue may result in a "hold" being placed on students' records. The fees listed above must be paid at the Office of Payments and Collections, Student Services Building, Room 115, except for the library fees and ID card replacement fee as noted above. Students who are unsure where to pay fees or what fees they owe may call the Office of Payments and Collections at 956/381-2715 for more information.

Refund of Registration Fees

To officially withdraw from the University or drop a course, a student must go to the Office of the Registrar. A student withdrawing officially and completely during a fall or spring semester will receive a refund of total tuition and fees (excluding nonrefundable fees) according to the following scale (Section 54.006, Texas Education Code):

- 100 percent before the first day of classes.
- 80 percent during the first five class days.
- 70 percent during the second five class days.
- 50 percent during the third five class days.
- 25 percent during the fourth five class days.
- No refund after the fourth five class day period.

Refund of total tuition and fees (excluding nonrefundable fees) during a summer term to students withdrawing officially and completely will be made according to the following scale:

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

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

schedule. Students officially dropping courses but remaining enrolled at the University receive a full refund of tuition and mandatory fees actually paid for the dropped classes through the 12th class day (official census day) during a fall or spring semester or the fourth class day (official census day) during a summer term, minus a nonrefundable \$5 course drop fee and other nonrefundable fees assessed for each course dropped beginning with the first day of classes. Students will not receive refunds for classes dropped after these dates. Additionally, per the Texas Higher Education Coordinating Board rules and regulations, students may not enroll in a course after the official census date (Ch. 9, Subchapter B, 9.31a).

Refund checks will be mailed within 45 days to the student's billing address on file at the Office of the Registrar (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.

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

Withdrawal for military service. A student who withdraws as a result of being called to active military service may choose (1) to receive a refund of tuition and fees for the semester; (2) if eligible, to be assigned an incomplete (I) in each course; or (3) at the instructor's discretion, to receive a final grade in courses where he or she has completed a substantial amount of coursework and has demonstrated sufficient mastery of the course material. Policies affecting students who are absent for military service but do not withdraw are provided in the "Military Absences" on p. 43.

◆ Treatment of Title IV Student Financial Aid Funds When a Student Withdraws

When federal Title IV grant or loan assistance is disbursed and the recipient does not complete the enrollment period, the law requires that UT Pan American calculate the amount that must be returned by the school and/or student to Title IV program accounts.

The date the student initiates the withdrawal is used for calculating the percentage used in the formula for Return of Title IV funds. The number of days from the first class day to the withdrawal date divided by the number of days in the payment period (semester) equals the percentage of Title IV funds earned. If the withdrawal date is after the 60 percent point of the semester, the student has earned 100 percent of the Title IV funds.

If a student fails to earn a passing grade in at least one class, UT Pan American is required to calculate the amount for Return of Title IV funds based on the last day of enrollment. If last day of attendance cannot be determined, UTPA may use the midpoint of the period (in lieu of an official withdrawal date) as documentation of the student's last date of attendance. Unless the student can provide acceptable documentation that shows the student was enrolled more than 60 percent of the semester, the student may owe a refund back to UTPA and the federal government.

Academic Common Market

At the graduate level, Texas participates in the Academic Common Market of the Southern Regional Education Board that enables students to take advantage of graduate programs not offered in the student's home state. Nonresident students participating in programs that are offered through the Academic Common Market may be eligible to pay tuition at resident rates. Contact the Office of Admissions for eligible programs and nonresident status.

For more information on residency classification for tuition purposes, see page 22.

Financial Assistance

General Information

Financial aid plays a vital role at The University of Texas-Pan American where a large percentage of students receive some type of financial assistance.

Tuition and fees at UT Pan American are significantly lower than private colleges and equal to, or lower than, most public colleges. This, together with the availability financial aid funds, makes UT Pan American reasonably priced.

There are several sources of graduate student aid, including federal, state, institutional and private funds. Financial assistance comes in the form of grants, scholarships, student loans, and work-study.

For more information about the various types of financial assistance, contact:

Student Financial Services
 Student Services Building, First Floor
 1201 W. University Drive
 Edinburg, TX 78539-2999
 Telephone: 956/381-2501
 E-mail: finaid@utpa.edu, loans@utpa.edu
scholarship@utpa.edu, workstudy@utpa.edu
verification@utpa.edu
texasgrant@utpa.edu
 Web: <http://www.utpa.edu/finaid/>

Hours: 8 a.m.-6 p.m., Monday-Thursday
 8 a.m.-5 p.m., Friday

Federal Student Aid Information Center
 1-800-4-FED-AID (1-800-433-3243)
 TTY users (for the hearing-impaired) can call **1-800-730-8913**
 Hours: 8 a.m. - midnight (Eastern Time)

To find out if the federal student financial aid application has been processed, or to see the information on the application, a student should call 1-800-433-3243 or visit the Web site at <http://studentaid.ed.gov/>.

Application Process

The University of Texas-Pan American is an equal opportunity institution in the administration of its financial aid programs. 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.

In order to qualify for federal financial assistance, an applicant must meet the following criteria:

- a. Be a U.S. citizen or eligible non-citizen.
- b. Be registered with Selective Service (if required).
- c. Have CLEAR ADMITTANCE to a degree-seeking graduate program.
- d. Have signed a statement of educational purpose/ certification statement on refunds and default.
- e. Be enrolled as a regular student working toward a degree in an eligible degree program.
- f. Is not in default on any federal or institutional loan, and does not owe a refund on any federal or state grant program.
- g. Demonstrates financial need, except when applying for funds from a program that does not require proof of financial need.
- h. Is in satisfactory academic standing and making Satisfactory Academic Progress (as defined by the Satisfactory Academic Progress Policy described below) at the University.
- i. Has completed a financial aid application and all required documentation is on file by the appropriate deadline.

IMPORTANT: Students **MUST** have CLEAR ADMITTANCE to a degree-seeking graduate program to be eligible for financial aid. Students with Probationary or Tentative Admittance, students who are participating in a certification program, or are participating in continuing education are not eligible to receive financial aid.

How to Apply for Financial Aid:

File your FAFSA over the Internet at <http://www.fafsa.ed.gov>; request a PIN at: www.pin.ed.gov. (This is your electronic signature for FAFSA on the Web).

Visit the UTPA Financial Aid Express Lab for one-on-one electronic FAFSA submittal assistance. If completing a paper FAFSA, mail your completed FAFSA using the self-addressed envelope included with the application.

All required documents must be submitted before any aid can be awarded. Some applications are selected for Verification of information submitted on the application.

Additional Information on the Federal Verification Procedure

As stated above, some applicants are selected for verification. Verification is the process in which the school's financial aid office requests documentation from students based on the information provided on the FAFSA application submitted to Department of Education. If an applicant has been selected for verification, we will notify them by mail and/or email. In most cases the documents used to verify information are the prior year's federal income tax return and a Verification Worksheet; additional documents may be requested depending upon the information to be verified. Applicants are asked to submit the requested information to the Office of Student Financial Services within two weeks. The financial aid application is considered incomplete until verification is completed; that is, no aid offer will be made until verification is complete. If corrections must be made as a result of verification, corrections to the ISIR will be submitted to the federal processor. If an aid offer must be adjusted because of information submitted as part of the verification process, the applicant will be notified via e-mail through a revised Financial Aid Notification.

The UTPA School Code for the FAFSA is 003599.

Application Deadlines

To ensure processing before registration, the recommended priority dates for submission of the FAFSA are as follows:

Fall awards:	April 1
Spring awards:	Sept. 15
Summer awards:	Feb. 15

Final deadline to apply and receive financial aid is June 30th of the end of the award year. In order to award aid for an application submitted after the end of the spring semester, the student must be currently enrolled in a summer term. Aid is awarded on a funds-available basis, and priority is given to students that file by the priority deadline.

Students who did not apply for financial aid or submit required documents by the recommended priority dates, may not have their aid awarded at the time payment is due. Arrangements will then need to be made by the student for an alternative method of payment.

Benefits of Applying Early

- You increase your chance of receiving some of the state and/or local aid, which is in limited supply.
- You get an eligibility reply (award letter) prior to the payment of tuition and fees.
- If your file needs corrections, these can be completed before the payment date of tuition and fees.

The Disbursement Process

Students receiving financial aid can expect to receive their aid in any of the following methods:

1. When the student accepts his/her award, the award will be credited to the student's account to pay for educational expenses.
2. Stafford Loan funds will be credited to the student's account approximately one week prior to the first class day for students who have successfully completed the Loan Counseling Session and Master Promissory Note.
3. Financial aid disbursement checks: Any credits remaining in the student's account after all tuition/fees and all educational expenses have been paid will be disbursed approximately one week prior to the first class day.

NOTE: Changes in class schedule or enrollment status may cause an adjustment or cancellation of your awards, which will require you to pay a balance or return funds. All funds are mailed to your mailing/billing address on file with the Office of the Registrar.

Satisfactory Academic Progress Policy FOR GRADUATES (Master's and Doctoral Programs)

INTRODUCTION

Federal Title IV financial aid regulations require students receiving federal student financial aid to maintain Satisfactory Academic Progress (SAP) at the university in order to remain eligible for this aid. Satisfactory Academic Progress standards are also required for some state and institutional financial aid programs. The Office of Student Financial Services evaluates satisfactory academic progress after the completion of each academic year, generally two semesters. There are three components of SAP: a qualitative standard (i.e., grade point average), an incremental quantitative standard (number of credits attempted and earned for each year of study), and a Maximum Time Frame for the degree or program. All semesters of enrollment, including summer, must be considered in the determination of satisfactory academic progress. SAP standards, including qualitative, quantitative and maximum time frame begin anew for students seeking a graduate or professional degree after completing an undergraduate degree.

QUALITATIVE OR GRADE POINT AVERAGE (GPA) REQUIREMENTS

The student must maintain a grade point average (GPA) required for continued enrollment consistent with the University's graduation requirements:

Students working on a Master's or Doctoral degree must maintain a 3.0 GPA.

All courses with a grade of A, B, C, and F are counted in the calculation of GPA. Satisfactory Academic Progress cannot be determined until all grades of "I" (incomplete) are resolved. Transfer grades that are accepted by the university are counted in the determination of GPA. If a student repeats a course, only the most recent grade is counted in the calculation of GPA. However, the credits from all attempts are counted in the calculation of the maximum time frame requirement. Remedial courses are not counted in the calculation of GPA, but are counted in the calculation of the maximum time frame requirement. Audited courses do not count toward the qualitative or quantitative standards. Credit is not granted for audited courses.

QUANTITATIVE, OR PROGRESSION, REQUIREMENTS

The student must be progressing toward graduation requirements by completing the courses for which they enroll each semester. Courses or classes are measured in credit hours:

Students must complete at least 75% of all credits attempted. For example, a Master's student that has attempted 30 credit hours and has satisfactorily completed 24 of those credit hours would have completed 80% of attempted credits.

Credits attempted are all course credit hours for which the student is enrolled as of the semester census date, which is the 12th day of class in a semester, whether they have received a grade yet or not. Once grades are assigned, attempted credits include grades of A, B, C, P, S, F, U, W, WP, WF, IP, NC, CR, DF, DP, DR, DX, or I. Grades of DROPPED are counted as hours attempted if the student is enrolled in the class and charged for it as of the semester census date (the 12th class day of the semester). Credits satisfactorily completed are classes for which the student receives a grade of "A", "B", "C", "P", "CR" or "S".

MAXIMUM TIME FRAME REQUIREMENTS

Students must complete graduate degree requirements in a maximum time period according to federal regulation. Maximum Time Frame will be measured by

Fall 2009 Tuition and Fee Information Disclosure

Charge	Undergraduate		Graduate	Comments
	12 SCH	15 SCH	9 SCH	
Tuition (Texas Resident)	600.00	750.00	900.00	\$50/SCH-UG, \$100/SCH-Grad.
Tuition (Non-Resident)	3,924.00	4,905.00	3,393.00	\$327/SCH-UG, \$377/SCH-Grad.
Plus:				
Designated Tuition	1,164.00	1,358.00	873.00	\$97.00/SCH-UG, \$1,358.00max-UG \$101.70/SCH-GR, \$1,423.80 max-GR
Utility Fee	34.20	42.75	25.65	\$2.85/SCH
Registration/Matriculation Fee	10.00	10.00	10.00	\$10 per semester
Student Service Fee	168.00	210.00	126.00	\$14.00/SCH, \$250.00 max"
International Education Fee	1.00	1.00	1.00	\$1 per semester
IT Access Fee	123.00	153.75	92.25	\$10.25/SCH
Library Technology Fee	27.00	33.75	20.25	\$2.25/SCH
Medical Service Fee	23.10	23.10	23.10	\$23.10 per semester
Student Union Fee	30.00	30.00	30.00	\$30 per semester
Recreation Fee	75.00	75.00	75.00	\$75 per semester
Undergraduate Advisement Fee	25.00	25.00	-	\$25.00 per semester (Undergraduate students only)
Subtotal-Required Fees	1,680.30	1,962.35	1,276.25	
Average Incidental Fees	-	-	-	
Total Tuition & Fees (Texas Resident)	\$2,280.30	\$2,712.35	\$2,176.25	Total for Texas Resident
Total Tuition & Fees (Non-Resident)	\$5,604.30	\$6,867.35	\$4,669.25	Total for Non-Resident

Summer 2010 Tuition and Fee Information Disclosure

Charge	Undergraduate		Graduate	Comments
	6 SCH	9 SCH	6 SCH	
Resident Tuition	300	450	600	\$50/SCH-UG, \$100 SCH-Grad.
Non-Resident Tuition	1962	2943	2262	\$327/SCH-UG, \$377/SCH-Grad.
Plus:				
Designated Tuition	582	873	582	\$97.00/SCH-UG, \$1,358.00 max-UG \$101.70/SCH-GR, \$1,423.80 max-GR
Utility Fee	17.1	25.65	17.1	\$2.85/SCH
Registration/Matriculation Fee	10	10	10	\$10 per semester
Student Service Fee	84	125	84	\$14.00/SCH, \$125.00 max
International Education Fee	1	1	1	\$1 per semester
IT Access Fee	61.5	92.25	61.5	\$10.25/SCH
Library Technology Fee	13.5	20.25	13.5	\$2.25/SCH
Medical Service Fee	11.55	11.55	11.55	\$11.55 per semester
Student Union Fee	15	15	15	\$15 per semester
Recreational Fee	35	35	35	\$35 per semester
Undergraduate Advisement Fee	12.5	12.5	-	\$12.50 per semester (Undergraduate students only)
Subtotal-Required Fees	843.15	1221.2	830.65	
Average Incidental Fees	-	-	-	
Total Tuition & Fees (Texas Resident)	1143.15	1671.2	1430.65	Total for Texas Resident
Total Tuition & Fees (Non-Resident)	2805.15	4164.2	3092.65	Total for Non-Resident

* Texas Education Code, 54.504 - Incidental Fees and 55.16 Board Responsibility authorizes the governing board to fix and collect fees and charges.

The averages are not given for college and course related fees (laboratory, incidental, supplemental/individual fees) since charges vary according to academic program and courses; actual fees are published in the institutional catalog and/or other publications. A summary description of these fees and the optional student fees may be found in The University of Texas-Pan American Catalog.

Visit our Web site at <http://www.utpa.edu>.

General Information: The Texas Legislature, except for basic tuition, does not set the specific amount for any particular student fee. The student fees assessed are authorized by state statute; however, the specific fee amounts and the determination to increase fees are made by the University administration and The University of Texas System Board of Regents.

***House Bill 3015 authorizes the governing boards of institution of Higher Education to charge any student Designated Tuition in any amount necessary for the effective operation of the institution effective Sept. 1, 2003.*

the number of credit hours attempted:

Students enrolled in a Masters program have a maximum of 63 attempted credit hours in order to complete Master's degree requirements. Students attempting a 2nd Masters degree are allowed 45 attempted credit hours.

Students enrolled in a Doctoral program have a maximum 99 attempted credit hours in order to complete Doctoral degree requirements.

PROBATIONARY PERIOD

Students who fail to meet the minimum requirements, other than Maximum Time Frame, will be allowed one probationary semester to restore satisfactory standing. Financial aid will be processed for one semester only. Further review will be required at the end of the probationary semester. During the probationary semester, graduate students will be required to complete each course attempted with a minimum semester grade of B. After receiving aid for one probationary semester, students who consistently continue to meet the same standards outlined above for the probationary semester in each subsequent semester will be considered to be making SAP for purposes of receiving federal student aid, provided that they do not exceed the specified Maximum Time Frame for degree completion.

Students having reached the Maximum Time Frame to complete a program cannot receive a probationary semester.

FINANCIAL AID SUSPENSION

Students who fail to earn the minimum requirements during the probationary period will be considered as not making SAP and all financial assistance will be terminated or suspended until the student regains minimum satisfactory academic progress standards.

APPEALS

A student who is denied aid because of a failure to meet satisfactory progress standards after the probationary semester may appeal this determination to the Satisfactory Academic Progress Appeals Committee of the Office of Student Financial Services by completing a Student Appeal form by published deadlines. An appeal must be based on significant mitigating circumstances, circumstances that seriously affect academic performance. Examples of possible mitigating circumstances are serious illness, severe injury, death of a family member, and other similar situations. Students may re-establish eligibility for upcoming periods by achieving the satisfactory

progress standards. After a student has re-established eligibility, he/she may be considered for aid for upcoming periods but not for periods during which the standard had not been met.

Treatment of Title IV Student Financial Aid Funds When a Student Withdraws

When federal Title IV grant or loan assistance is disbursed and the recipient does not complete the enrollment period, the law requires that UT Pan American calculate the amount that must be returned by the school and/or student to Title IV program accounts.

The date the student initiates the withdrawal is used for calculating the percentage used in the formula for Return of Title IV Funds. The number of days from the first class day to the withdrawal date divided by the number of days in the payment period (semester) equals the percentage of Title IV Funds earned. If the withdrawal date is after the 60 percent point of the semester, the student has earned 100 percent of the Title IV funds.

If a student fails to earn a passing grade in at least one class, UT Pan American is required to calculate the amount for Return of Title IV Funds based on the last day of enrollment. If last day of attendance cannot be determined, UTPA may use the midpoint of the period (in lieu of an official withdrawal date) as documentation of the student's last date of attendance. Unless the student can provide acceptable documentation that shows the student was enrolled more than 60 percent of the semester, the student may owe a refund back to UTPA and the federal government.

DISTANCE LEARNING

UT TeleCampus

An agreement exists between UTPA and other UT institutions to award eligible student Title IV aid when taking courses at two or more of those institutions. This agreement, entered into between each of the named institutions, hereinafter referred to as Home or Host Institutions, is intended to provide the basis for the Home Institution to pay and/or certify federal/state and institutional student

financial assistance to UT TeleCampus students matriculated at a Home Institution and also studying at a Host Institution.

Participating Institutions:

The University of Texas at Arlington
 The University of Texas at Brownsville
 The University of Texas at El Paso
 The University of Texas-Pan American
 The University of Texas at Permian Basin
 The University of Texas at Tyler
 The University of Texas Health Science Center at San Antonio
 The University of Texas Health Science Center at Houston
 The University of Texas Southwestern Medical Center at Dallas
 The University of Texas Medical Branch at Galveston
 The University of Texas M.D. Anderson Cancer Center
 The University of Texas at Austin
 The University of Texas at Dallas
 The University of Texas at San Antonio

Home: The UT component at which a student is fully admitted and enrolled in a degree or certificate program. The Home Institution will award the student's degree or certificate.

Host: The UT component institution at which a student may enroll and take courses applicable to the degree or certificate program at his/her Home Institution.

A student wishing to enroll in a distance-learning course must first complete an Inter-Institutional Distance Education Admission and Registration (IDEAR) Form. The form can be completed at the following Web site:
<http://www.telecampus.utsystem.edu> under the heading "TeleCampus System."

NOTE: Financial aid funds will be disbursed after the listed census date for the respective semester for students who list UTPA as their Home institution. As a result, students will need to contact their Host institution to make payment arrangements.

STUDY ABROAD PROGRAM

Enrollment in a program of study abroad approved for credit by UTPA may be considered enrollment at UTPA for the purpose of applying for federal student aid.

Students who apply for the financial assistance for study abroad should apply in the same manner as if they were planning on being in residence at UT Pan American. A study abroad student must file a FAFSA and complete the Study Abroad Financial Aid Form. This form can be obtained at the Student Financial Services office.

To be considered for Title IV funds, the study abroad applicant is expected to meet all financial aid application priority deadlines, to adhere to other financial aid deadlines, to meet all the eligibility requirements for Title IV awards and be making Satisfactory Academic Progress and to be enrolled half time (six hours) in the study abroad program.

The study abroad applicant should also note that if awarded an institutional or outside scholarship, these awards may result in a reduction or cancellation of financial aid.

NOTE: Financial aid funds will be disbursed after the listed census date for the respective semester. As a result, students will need to contact their school to make payment arrangements with their respective study abroad programs.

Types of Financial Assistance For Graduate Students

Grants

Texas Public Educational Grant (TPEG):

A Texas Public Educational Grant is a campus-based grant for undergraduate and graduate students with financial need. Unlike the Federal Pell Grant, there is no guarantee that a student is eligible to receive a TPEG. Awards from this program are based on the availability of funds. If a student is awarded a TPEG at UT Pan American, his/her account will be credited.

Graduate Tuition Assistance Grant (GTAG)

GTAG is a need based grant awarded to students who demonstrate financial need as defined on the Free Application for Federal Student Aid (FAFSA). Students will be awarded until all available funds are exhausted. It is recommended that students complete their FAFSA prior to the April 1st Priority Deadline to increase their potential for receiving the GTAG.

Student Loans

Students who are eligible for Federal Stafford Direct Loans, unsubsidized loans and/or Perkins Loans should be aware that a completed Loan Counseling Session and Master Promissory Note are required for all loan applicants.

NOTE: If a student is not automatically awarded a Stafford Loan, he/she may submit an additional Financial Aid Request available online at www.utpa.edu/finaid.

The William D. Ford Federal Direct Loan (Stafford Direct Loans) Program: The Direct Loan Program is one of the Federal Student Aid programs offered by the Department of Education, which provides students with a simple, inexpensive way to borrow money to pay for education after high school. The Direct Loan program offers subsidized and unsubsidized Stafford Loans. The first step in the application process is the completion of the FAFSA. After the student's FAFSA is processed, Student Financial Services will review the results and advise the student as to his or her loan eligibility. Before receiving any loan disbursements through the Direct Loan program, every student borrower will have to complete an Entrance Counseling Session and an Electronic Master Promissory Note. Once these two requirements are complete, our Office will receive electronic confirmation that the information has been completed and funds will be credited to the student's university account. The school will mail any loan-credited balance to the student within 3-5 days. No single disbursement may exceed one-half of the loan amount.

Federal Perkins Loan: UT Pan American recognizes that loans are an increasingly important aspect of financing an education. Participating in the Federal Perkins Loan program allows funds to be made available with which a student may finance a substantial part of his or her education. When the borrower ceases to be enrolled at an accredited higher education institution at least half time or graduates, he/she has nine months after graduation or a break in enrollment before he/she begins repayment on their Federal Perkins Loan.

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 Student Financial Services.

College Short-Term Loans: Made possible through donations from a number of individuals and organizations, these funds are administered by Student Financial Services and are available to students for short-term loans. Loans are limited in funding and must be repaid within the semester for which they are borrowed. The loans are designed to aid students who do not have sufficient funds to purchase books and supplies or to assist students when emergencies arise. A \$5 processing fee is assessed to each loan and funding is limited. Students interested in applying for short term loans are advised to apply, in person, at the Student Financial Services Office at the beginning of each semester.

Emergency Tuition and Fee Loans: Emergency loans are available to UT Pan American students needing assistance in paying registration costs. Emergency loans must be paid back to the University during the same semester in which they are borrowed. An applicant will be assessed a \$20 processing fee per semester. Students may borrow up

to the amount of tuition and applicable fees. Applications and information about the Emergency Loan program are available at the Student Loan Collections Office, Room 214, Mary Alice Shary Shivers Administration Building.

Federal Work-Study Program (FWS)

The Federal Work-Study Program provides jobs for undergraduate and graduate students with financial need. This program allows the student to earn money to help pay educational expenses and also encourages community service work and work related to the student's course of study.

The FWS salary will be at least the current federal minimum wage. Students employed by UT Pan American through the Federal Work-Study Program will be paid directly and once a month.

Work-study employment may be on campus or off campus. Off campus, the employer is usually a private nonprofit organization or public agency, and the work performed must be in the public interest.

The amount a student receives in wages under work-study cannot exceed the total Federal Work-Study amount awarded. The employer will consider the student's class schedule when preparing the work schedule. Funds are limited; therefore, funds are awarded at the discretion of the Office of Student Financial Services.

State Exemptions

Adopted Students Formerly in Foster or Other Residential Care

This program provides exemption of tuition and required fees for individuals who were adopted; and were subject of an adoption assistance agreement under Subchapter D, Chapter 162, Family Code, that provided monthly payments and medical assistance benefits and was not limited to providing only for the reimbursement of nonrecurring expenses.

Foster Care Students

This program provides exemption of tuition and required fees for persons 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 their 18th birthday, the day of the student's 14th birthday if the student was eligible for adoption on or after that day, or the day the student received a high school diploma or equivalent. In order to take advantage of this exemption the student must enroll as an undergraduate no later than the third anniversary of date of discharge from that care or the 21st birthday.

Senior Citizen Exemption

Senior citizens may be exempt from payment of tuition for up to six credit hours per term on a space-available basis.

A senior citizen is defined as a student of age 65 or older.

Hazlewood Act for Veterans

The purpose of the Hazlewood Act (Section 54.203) is to encourage U.S. veterans to pursue higher education. To qualify for the Hazlewood Act the applicant must:

- Have resided in Texas for 12 months prior to registration.
- Be a bona fide legal resident of Texas at time entered service.
- Have served in armed forces in World War II, Korean Conflict, the Cold War, Vietnam, Grenadaera, Lebanon, Panama, Persian Gulf, the national emergency related to Sept. 11, 2001.
- Honorably discharged.
- Not eligible for federal education benefits.

Students are entitled, not to exceed 150 credit hours, to an exemption from payment of all dues, fees, and charges (excluding only student property deposits, student service fees, books, lodging, board or clothing) that would otherwise be paid to attend the University of Texas-Pan American.

Tuition and Fee Exemption for Children of Veterans of the Armed Forces

Program for the children of members of the U.S. Armed Forces who were killed in action, who die or died while in service, who are missing in action, whose death is documented to be directly caused by illness or injury connected with service in the U.S. Armed Forces, or who become totally disabled for purpose of employability according to the Dept. of Veterans Affairs' disability rating as a result of a service-related injury.

For orphans or children of members of the Texas National Guard who after January 1, 1976 were killed while on active duty or became totally disabled for purpose of employability according to the Dept. of Veterans Affairs' disability rating as a result of service related injury.

These students must be Texas residents who resided in the state at least 12 months immediately preceding date of registration. They are entitled, not to exceed 150 credit hours, to an exemption from payment of all dues, fees, and charges (excluding only student property deposits, student service fees, books, lodging, board or clothing) that would otherwise be paid to attend the University of Texas-Pan American.

Ex-Prisoners of War Exemption

This program is available to a student who is a resident of Texas and was a resident of Texas at the time of original entry into the armed forces, and was first classified as a POW

on or after January 1, 1999. The student must enroll for at least 12 semester credit hours. Student is exempted from tuition and required fees, student housing & food not to exceed 120 hours.

Surviving Spouse and Minor Children of Certain Police, Security or Emergency Personnel Killed in the Line of Public Duty

Program is available for the surviving spouse or children of certain public peace officers, probation officers, parole officers, jailers, police reservists, fire fighters, and emergency medical personnel. (Texas Govt. Code 615.003). Death must have occurred in the line of duty as a result of a risk inherent in the duty. Student must enroll full time. Student is exempted from tuition and fees, student housing and food not to exceed bachelor's degree or 200 hours.

Exemption for Blind and Deaf Students

A blind disabled person or a person whose sense of hearing is nonfunctional and is a Texas resident may be eligible for exemption from payment of tuition and required fees if appropriately certified by a state vocational rehabilitation agency. Contact the Texas Department of Assistive and Rehabilitative Services for more information.

Exemption for Firefighters Enrolled in Fire Science Courses

Eligible students must be firefighters enrolled in course offered as a part of fire science curriculum. They are exempted from tuition and laboratory fees.

Exemption for Children of Prisoners of War or Person Missing in Action

Eligible student must be a dependent person, under 25 years of age who receives majority of support from parent. Parent must be a resident of Texas on active military duty and classified by Department of Defense as a Prisoner of War or Missing in Action at time of the student's registration. They are exempted from tuition and required fees.

Distance/Off-Campus Learning Exemption

Eligible students must be enrolled only in distance learning courses or other off-campus courses to be able to apply for this exemption. To be eligible, a student must prove special circumstances exist that preclude the student from utilizing activities, facilities and/or services on which a fee is based.

Submit a written request with supporting documentation (as needed) to:

Office of the Vice President for Business Affairs
1201 W. University Drive
Student Services Building, Room 5.101

Edinburg, TX 78539-2999

Consideration for fee waivers will be determined prior to the 12th class day during a fall or spring semester or prior to the fourth class day during a summer term.

Mandatory or Discretionary Fee Exemption:

A student or specific category of students may apply for an exemption of mandatory or discretionary fees. Exemptions may be considered if a student will not utilize the activity, service or facility for which a fee is charged. Consideration may also be given if the exemption is in the best interest of the institution or is critical to the viability of an academic initiative. Exemptions will not be granted for tuition or laboratory fees.

Students must submit a written request with supporting documentation (as needed) to:
Office of the Vice President for Business Affairs
1201 W. University Drive
Student Services Building, Room 5.101
Edinburg, TX 78539-2999

Consideration for fee waivers will be determined prior to the 12th class day during a fall or spring semester or prior to the fourth class day during a summer term.

Fifth-Year Accounting Student Scholarship Program

The Fifth-Year Accounting Student Scholarship Program was established to recognize and support outstanding scholars who plan to pursue careers in accounting and serve as Certified Public Accountants in the state of Texas.

The program can provide up to \$5,000 (lifetime maximum) to eligible students to assist with the cost of completing the educational requirements to sit for the CPA exam in Texas.

In order to apply, students must:

- Be classified as residents of Texas.
- Be enrolled at least half time
- Have completed at least 120 hours of college course work (including at least 15 semester credit hours of accounting) at the beginning of the term in which the award is being made
- Be making Satisfactory Academic Progress.
- Have not already taken the CPA exam, but plan to take the CPA examination in the State of Texas and are willing to sign a written statement confirming the intent to take the written examination conducted by the Texas State Board of Public Accounting for the purpose of being granted a certificate of "Certified Public Accountant."
- Register for the Selective Service or be exempt from this requirement, and

- Demonstrate financial need.

Applications are available in mid-June at the Student Financial Services office. Funding is limited therefore only complete applications will be considered.

Professional Nursing Scholarship Program

The purpose of this program is to provide financial assistance to students who are planning on becoming professional nurses. No individual award may be for more than the student's financial need. The maximum award is \$3,000. Some, but not all the funds are targeted to students from rural communities, while others are targeted to graduate students in nursing.

To apply, the student must:

- Be a Texas resident.
- Show financial need (FAFSA must be completed to show basis of need).
- Register for the Selective Service or be exempt from this requirement.
- Enroll in the classes leading to licensure as a professional nurse.
- Be enrolled at least half time.

Applications are available at the Student Financial Services office. Funding is limited therefore only complete applications will be considered.

Mexican Nationals

Citizens of Mexico may apply for a Nonresident Tuition Waiver. To be eligible, a student must have or obtain an F-1 student status, enroll full time and must apply before the required deadline dates. Students who have filed for permanent residency are not eligible. For information about this program, contact the Office of International Admissions and Services at the University Center, Room 113, 956/381-2922.

For additional information on any of these programs contact:

Student Financial Services
Student Services Building, First Floor
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: 956/381-2501
E-mail: finaid@utpa.edu, loans@utpa.edu
scholarship@utpa.edu, workstudy@utpa.edu
Web: <http://www.utpa.edu/finaid/>

Also visit the Texas Higher Education Coordinating Board Web site at <http://www.collegefortexans.com/>.

Scholarships

The University of Texas-Pan American awards a variety of scholarships through the University Scholarship Committee and departmental committees. These scholarships

are based on various prerequisites and are intended to recognize students for their outstanding academic accomplishments and future potential. These awards are made possible through the generosity of local as well as national business firms, organizations, individuals and University-endowed funds.

The majority of the scholarships are not automatically renewed, and students must apply each year for continued consideration. Although most awards are restricted to U.S. citizens and permanent residents of the United States, some are open to international students, who are encouraged to apply.

For a complete list of scholarships, visit www.utpa.edu/scholarships to view the UT Pan American Scholarship Guide. To be considered for scholarships at UTPA, students must complete The UTPA Excellence and Departmental Scholarship application online at www.utpa.edu/scholarships. The scholarship process is very competitive, students are encouraged to apply early and make sure their applications are submitted and complete by December 1 of each year.

Important: It is UT Pan American's policy not to award institutional scholarships to students who have received aid (including institutional, state, federal and private sources) in excess of their cost of attendance. If your cost of attendance is exceeded, any UTPA scholarship(s) may be reduced or cancelled.

Outside Scholarships

Many agencies, employers, military and service organizations award funds to students. Receipt of these external awards may result in a reduction of your financial aid from UT Pan American. Therefore, if you are a financial aid recipient, you must notify the Student Financial Services office, in writing, of any scholarships you are awarded from sources other than UTPA. To the extent possible, we will adjust loan awards before reducing grants.

It is also the student's responsibility to notify the Office of Student Financial Services of any special instructions or billing information regarding external scholarships. All checks for these awards should be made payable to The University of Texas-Pan American and sent to:

UT Pan American
Office of Student Financial Services
Attn: Scholarship Coordinator
1201 W. University Drive
Edinburg TX 78539-2999

No credit will be entered on your account before the check arrives. It is UTPA's policy to equally divide external scholarships between fall and spring.

Fellowships

The University of Texas-Pan American awards a limited number of fellowships. Applications may be requested from the department or college awarding the fellowship.

Enrollment

General Information

Classification

Post-baccalaureate students are those who hold a bachelor's degree or higher from an accredited institution and are not enrolled in a graduate program but are enrolled in undergraduate classes

Degree-seeking graduate students are students who have earned a bachelor's degree and have been accepted to UT-Pan American for graduate study.

Non-degree seeking graduate students are students who have earned a bachelor's degree and are taking graduate courses for professional improvement.

Doctoral students have been accepted to a doctoral program.

Course Information

The information concerning the courses offered by each department (or college for interdisciplinary courses) will be found in the Graduate Course Descriptions section beginning on page 170. The listing includes the following information:

◆ Course Number, Title and Contact Hours

If the course has defined weekly contact hours, these will be shown in brackets [] following the course title, with lecture hours first, laboratory hours second and clinical hours, if any, third. These contact hours are for the fall and spring semesters. Summer weekly contact hours will be adjusted according to the length of the summer session. (See page 170 in the Glossary for more information and example.)

◆ Course Frequency Information

If the course is normally taught on a regular schedule, such as every fall or every fall and spring semester, this information is provided under the course title. If circumstances warrant, the schedule for offering the course may be changed without notice. Therefore, it is in the students' best interest, as well as their responsibility, to determine by other means (such as semester course schedules) when courses required for their degree programs are being offered. Program requirements will not be waived as a result of the course not being offered as indicated in the course frequency information provided in this catalog.

Courses not normally offered on a regular schedule are identified "as scheduled."

◆ **Course Description**

This portion of the course listing includes a brief description of the course content.

◆ **Course Numbers**

Courses are numbered to show both the collegiate level at which they are offered and the hour value of the course. The first digit shows the level, and the second digit shows the credit hours. The last two digits are departmental designations. For example, English 6300 shows that the course is taught at the graduate level and carries three hours of credit per semester.

5000-numbered courses through 7000-numbered courses: Graduate level - limited to students accepted for graduate study only.

8000-numbered courses: Doctoral level - limited to students accepted into a doctoral program only.

9000-numbered courses: Doctoral level internship, dissertation and special projects - limited to students accepted into a doctoral program only

Students must have been accepted into a graduate program or accepted as a non-degree seeking graduate student with permission of the department or graduate program to officially enroll in or audit master's or doctoral level coursework.

Grading Policies

Grading Policies

◆ **Grading System**

UT Pan American uses a 4.0 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 hour)
B	Good	(3 grade points per hour)
C	Satisfactory	(2 grade points per hour)
F	Failure	(0 grade points per hour)
P	Passing	(not considered in calculating grade points or attempted hours)
NP	No Pass	(not considered in calculating grade points or attempted hours)
S	Satisfactory	(not considered in calculating grade points or attempted hours)
U	Unsatisfactory	(not considered in calculating grade points or attempted hours)
IP	In Progress	(not considered in calculating grade points or attempted hours)

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)
W	Withdrawal from School	(not considered in calculating grade points or attempted hours)

Calculation of Graduate Grade Point Average (GPA)

The grade point average (GPA) is computed by dividing the total grade points earned by the total semester hours attempted. The Cumulative Grade Point Average is calculated using all coursework attempted. The current semester grade point average is calculated using only coursework attempted within a specific semester. Replacement of grades for courses previously taken is not allowed.

Attempted hours are the total number of hours for courses that a student has attempted, including failing grades such as "F," "DR" and "W."

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 four grade points. If the course was offered for three credit hours, the grade points would be calculated as follows:

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

Grade points are assigned as follows:

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

An illustration of the method of calculation of the grade point average follows:

Course No.	Grade	Points	Total
ENG 6300	A	3 hours X 4 pts. per hr.	= 12
COMM6340	B	3 hours X 3 pts. per hr.	= 9
ENG 6360	A	<u>3 hours</u> X 4 pts. per hr.	= <u>12</u>
		9	33

TOTAL ATTEMPTED HOURS = 9
TOTAL GRADE POINTS = 33

To calculate the GPA for this example, divide the grade points by the attempted hours as follows:
33 divided by 9 = 3.67

Incomplete Grades

An Incomplete Grade (“I”) is a temporary grade given only during the last one-fourth of a term/semester and only if a student:

- (1) is passing the course to date, and
- (2) has a justifiable and documented reason, beyond the control of the student (such as serious illness or military service), for not completing the work on schedule.

The student must arrange with the instructor to finish the course within one year by completing specific requirements. These requirements must be listed on a **Request for Grade of Incomplete** form signed by the instructor, student, department chair and Dean. Grades of “I” assigned to a course at the end of a regular semester would at the end of one year default to an “F”, unless the faculty member has already processed a grade change for the course.

Complete **Request for Grade of Incomplete** form with all required signatures must be received by the Office of the Registrar by the published deadline for faculty to enter grades or an NR grade will be entered. An NR grade will be converted to an F at the end of two weeks.
above only in the case of compelling, non-academic circumstances beyond the student’s control.

Grade Change

If an error in computation, evaluation or recording warrants a grade change, only the instructor may process a Change of Grade Form through the Office of the Dean of his or her college. 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 and the approval of the college dean. Change of Grade Forms may not be released to students, and must be sent directly from the appropriate academic department.

A student may access his or her grades by using ASSIST via telephone/956-381-3040, Web (assist.utpa.edu) and kiosk services. See page 48 for more information.

Registration Procedures

Registration

Students must officially register through the proper registration procedure to be eligible to receive credit for a course. Students will not be added to the official class rolls or grade sheets after the registration periods have closed. Per the Texas Higher Education Coordinating Board Rules and Regulations, students may not enroll in a course after the official census date (Ch. 9, Sub-chapter B, Sec. 9.31a).

ASSIST Registration (telephone and Web): Registration on the World Wide Web is available to currently enrolled students and students who apply by the published admission deadline for ASSIST registration. Academic advisement is mandatory to and be eligible for priority registration by ASSIST. Students with admission, disciplinary, financial or TSI holds will not be permitted to register until the hold has been cleared. A schedule change period is scheduled prior to the beginning of each semester. Students who register during the designated late registration period will be assessed additional late fees.

Computers are available in the Academic Services Building for Web registration.

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 the Registrar. (See the sections on Withdrawal from the University on page 40 and on Dropping a Course, respectively.) Students who decide not to attend and do not officially notify the Office of the Registrar will 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 account.) Refer to the Registration Bulletin at www.assist.utpa.edu for refund schedules.

Degree Plan

Students are expected to meet with their graduate advisor and file an official degree plan during their first semester of enrollment. The degree plan is agreed upon with the graduate program advisor and signed by the department chair and dean and submitted to the Graduate School for inclusion in the student’s official file. 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 helps to avoid taking courses that will not satisfy degree requirements. If the student wishes to make changes to the filed degree plan, a signed change

form must be submitted to the Graduate School.

Students who change their major, area of concentration or teacher certification status and have been accepted for such must submit a new official degree plan.

Advisement

Prior to registering, students go through academic advisement through their graduate program to be counseled concerning the best selection of courses.

Maximum Course Load

The normal load for a full-time graduate student is nine hours in a regular semester. A student may be permitted to enroll for 15 hours with the approval of the dean of the college. Normal load during a summer session is six hours, with up to nine hours permitted with the approval of the dean of the college. In the case of doctoral students, approval to register for more than 12 hours must be given in advance by the Vice Provost for Graduate Studies, or his or her designee.

Guidelines Related to Registration in Doctoral Courses

1. Registration in an individual studies, research or similar course shall imply an expected level of effort on the part of the student comparable to that associated with the same credit value.
2. A doctoral student not on campus who is required to register solely for the purpose of satisfying a continuous enrollment requirement shall be required to register for no more than three hours during each term.
3. Only in unusual circumstances shall a doctoral student register for more than 12 hours in a given semester or summer session and then only if approved in advance by the dean of the college and the Vice Provost for Graduate Studies.

Maximum Period for Completion (Doctoral Degrees)

A student has a maximum of 10 years from the date of first entry into doctoral-level courses to complete the degree. Under special circumstances, an extension for an additional year may be granted by the student's Doctoral Dissertation Committee (DDC). If the student surpasses the 10-year limit, his or her DDC will determine if the student will be permitted to continue in the program and what additional coursework or activities will be required to complete the degree.

For information on maximum period for completion for students pursuing a master's degree, see Master's Degree Requirements on page 45.

Registration Policies

Dropping a Course

A student is "dropping" a course or courses if he or she remains enrolled in a minimum of one credit hour after all course drops have been completed. Students who drop

all classes for which they are enrolled are considered to have withdrawn from the University for that semester. (For more information on withdrawal, see the section below on Withdrawal from the University.)

To drop a course or courses 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 the Registrar, (2) obtain the signature of the instructor of record on the form, and (3) return the completed form to the Office of the Registrar, Student Services Building, Room 1.150.

All course drops must be completed during the first 75% of the semester or term (refer to the University calendar in this catalog or the "Registration Bulletin" for deadline dates). Students dropping during this time will receive a grade of DR. After the deadline student remains on the class roll and received the letter grade he/she earns.

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 the Registrar. Students who decide not to attend and do not officially notify the Office of the Registrar 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. (Although the student may not have paid for classes personally, payment may have been posted to his or her account by a financial assistance agency. It is important that the student officially notify the Office of the Registrar of his or her intention not to attend.) Refer to the Registration Bulletin on the Web at: www.assist.utpa.edu.

Withdrawal from the University

To withdraw from the University, a student must complete a formal withdrawal procedure through the Office of the Registrar prior to the end of a regular semester or one week prior to the end of a summer session. Withdrawals must be requested by completing the appropriate withdrawal form, or by providing written notification, to the Office of the Registrar, Student Services Building, Room 1.150, 956/381-2201.

A student withdrawing during the first 75% of the semester or term (refer to the University calendar in this catalog or the "Registration Bulletin" for deadline dates) will receive a grade of W. After the deadline student remains on the class roll and receives the letter grade he/she earns. Refer to the Registration Bulletin on the Web at www.assist.utpa.edu for refund periods.

Non-Credit Enrollment

Students have the option of enrolling in a course for non-credit, which allows the student to participate fully in the course but not to receive a grade or to count the course in fulfilling degree requirements. Enrollment for non-credit

requires the same payment of tuition and fees as enrollment for credit. (Students may also audit courses for a lesser fee; this normally allows only limited participation. For more information on auditing a class, see below.)

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 the Registrar, Student Services Building, room 1.150, no later than 30 calendar days into a regular semester or 10 calendar days into a summer session from the date classes begin.

Auditing Classes

Students must obtain special permission from the instructor of record to audit or visit a class. Students who wish to audit graduate classes (5000-9000 level) must be eligible to enroll in the course for credit before they will be allowed to audit. Students auditing classes do not receive academic credit and do not have the course or courses listed on their academic record. One may enroll as an auditor at any time by: (1) obtaining a class audit form at the Office of the Registrar, (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) using 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 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 per course) are non-refundable and may not be appealed. Individuals who are not regularly enrolled students at the University are also eligible to audit classes subject to the regulations stated above.

Reservation of Work by Undergraduates for Graduate Credit

It is possible for undergraduate students to enroll in up to six hours of graduate (master's) courses in their last semester of their undergraduate degree under the following conditions:

1. The undergraduate student must lack no more than 12 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 two six-week summer sessions, in which the student is taking the graduate courses.
3. Total enrollment must not exceed 15 semester hours in a regular semester, or 12 semester hours in two six-week summer sessions.
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. (For information on the calculation of graduate admission GPA, see page 20.)
5. The application for such graduate work is submitted to the Graduate School.

NOTE: Undergraduates cannot count work in graduate courses toward the bachelor's degree. Such work will be

reserved for credit toward a graduate degree.

The student's admission status will be conditional until he or she receives a bachelor's degree and meets any other necessary requirements, i.e., academic standing, submission of certain documents, etc.

Other Procedures

Identification Cards

Every student enrolled at The University of Texas-Pan American must possess an official identification card, issued through the supervision of the Dean of Students. The card remains the property of The University of Texas-Pan American.

The card must be presented for:

- Any University or department-sponsored activity.
- Admission to all intercollegiate athletic events.
- Identification for cashing checks on campus.
- Authorization to resell books to the University Bookstore or Student Book Exchange.
- Checking out equipment from the Student Union Recreation Room.
- Identification for receipt of transcripts at the Office of the Registrar.
- Identification for receipt of awards from Student Financial Services.
- Use of the University food service meal plans,
- Use of recreation facilities.
- Use of the Student Health Services.
- Purchase of campus parking permit.
- Campus library privileges.
- Voting in campus elections and referenda.
- Identifying oneself to a University official when requested to do so.
- Use of computer equipment in computer labs.

This card is non-transferable. First-time graduate students will receive their original ID cards at no charge. A service charge of \$7 will be required for cards processed during subsequent semesters and for replacement cards. Loss or mutilation of cards must be reported to the Office of Student Activities, University Center, room 205. Fees are subject to change.

Students may not have in their possession more than one student ID card at the same time. This includes teaching assistant cards, which are special identification cards given to students who are employed by the University as teaching assistants. For more information, call the Office of Student Development at 956/381-2660.

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 the Registrar, Student Services Building, Room 1.150.

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 his or her spouse's name, the student must present a copy of the marriage certificate.

4. **Divorce:** A student who wishes to discontinue the use of a married name and resume the use of their former name, or another name, must present a divorce decree or signed court order showing court restoration of their former, or other, name.

Change of Address and/or Telephone Number

If a student changes his or her address or telephone number, he or she is expected to notify the Office of the Registrar in writing immediately or change it online at ASSIST (www.assist.utpa.edu.) The student will be held responsible for any communication from University offices sent to the address last given to the Office of the Registrar. No special consideration will be given to students who move and fail to receive the communication. Students whose mail is returned to the University will not receive additional communication until an address change has been submitted.

Enrollment Verification

Enrollment for a given semester cannot be certified until after the official census date for the semester, which is the 12th class day of a fall or spring semester and the fourth class day in a summer session. After this date, students may be classified as full-time, half-time, less than half-time, not enrolled or withdrawn.

Full-time graduate — A graduate student who is enrolled for at least nine hours of credit during a regular semester, or at least four hours of credit during a summer session.

Half-time graduate — A graduate student who is enrolled for at least six hours of credit during a regular semester or three hours of credit during a summer session.

Enrollment verification for lending agencies is requested at the Student Financial Services office, Student Services Building, First Floor. Verification of enrollment for personal use (i.e., insurance companies, employment) is requested at the Office of the Registrar.

Transcripts

A student may secure an official transcript of his or her UT Pan American record by presenting picture identification at the Office of the Registrar, or by requesting the transcript in writing from the Office of the Registrar or on the web at assist.utpa.edu. Transcripts will be issued at no charge. 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 UT Pan American. This statement will contain all the important facts pertaining to the student's admission, academic level

and academic achievements. No partial or incomplete classroom records (for example, with grades of "F" omitted) will be given. Students who owe debts to the University, are delinquent or in default on a student loan, or owe a repayment on a student grant overpayment will have their official transcripts withheld until the university debts are paid or satisfactory arrangements have been made to repay the student loan or student grant overpayment.

Attendance Policies

Attendance

In accordance with the policy on absences in the University's Handbook of Operating Procedures, regular attendance in all meetings of courses for which the 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 "DR." The Office of the Registrar will notify the student that he or 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 the student does not plan to attend the course, he or she must officially drop or withdraw through the Office of the Registrar 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. (See the Registration Bulletin at www.assist.utpa.edu for refund periods for drops and withdrawals.)

Absences on Religious Holy Days

1. Definition

Religious holy days means holy days observed by a religion whose place of worship is exempt from property taxation under Section 11.20 Tax Code.

2. Rules

A student who is excused from classes for the observance of a religious holy day are required to inform their class instructors at least one week in advance of the absence and arrange with the instructor to make up missed work or missed examinations.

Instructors are encouraged to provide those students the opportunity to make up the work (either prior to or after the anticipated absence) or otherwise adjust the grading to ensure that the student is not penalized for the absence.

Absences for University- Recognized Activities

Students absent while representing the University in officially recognized University activities (such as athletic events or scholastic or student development activities) are required to inform their class instructors at least one week in advance of the absence and arrange with the instructor to make up missed work or missed examinations. Instructors

are encouraged to provide those students the opportunity to make up the work (either prior to or after the anticipated absence) or otherwise adjust the grading to ensure that the student is not penalized for the absence.

Special Populations

Persons with Disabilities

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 visit the Office of vvvv prior to registration to receive information on the variety of services available. The office is located in Emilia Schunior Ramirez Hall, Room 1.101, Voice/Telecommunications Device for the Deaf (TDD) 956/316-7092. Non-students should contact the Equal Opportunity Office in the Student Services Building, Room 6.105, at 956/381-2127.

The Texas Rehabilitation Commission also provides services for individuals with disabilities.

For more information, see pages 43.

Veterans

The Office of the Registrar sections certifies veterans to receive educational benefits for attendance at UT Pan American. Financial Aid Personnel coordinate activities with the veterans certification officer in the Office of the Registrar, Student Services Building, Room 1.150, 956/3812731. Students receiving VA educational benefits must make progress toward a degree as specified in this catalog under Satisfactory Progress and Scholastic Probation and Suspension (see page 30) in this catalog under Satisfactory Academic Progress and Scholastic Probation and Suspension.

Military Absence

Under certain circumstances, a student who is required to participate in active military service is excused from scheduled classes or other required activities and will be allowed to complete an assignment or exam within a reasonable time after the absence. The excused absence is permitted only if the student will not miss more than 25% of the total number of class meetings or the contact hour equivalent (not including the final examination period) for the specific course or courses in which the student is enrolled at the beginning of the period of active military service. Readmission guidelines for a student who withdraws to perform active military services are as follows. These guidelines apply to a student who withdraws from an institution of higher education to perform active military service a member of the United States armed forces or the Texas National Guard, except that this section does not apply to a student who withdraws from an institution solely to perform one or more training exercises as a member of the Texas National Guard.

a. For any academic term that begins after the date

a student is released from active military service but no later than the first anniversary of that date, the institution of higher education from which the student withdrew shall admit the student, without requiring reapplication of charging a fee for readmission, if the student is otherwise eligible to register for classes at the institution. On readmission of the student under this subsection, UTPA shall: 1. provide student any financial assistance previously provided by the institution to student before student's withdrawal if student meets current eligibility requirements for the assistance, other than any requirement directly affected by the student's service, such as continuous enrollment or another similar training requirement; and 2. allow student the same academic status that student had before student's withdrawal, including any course credit awarded to the student by the institution. b. UTPA requires reasonable proof from a student of the fact and duration of the student's active military absence.

Continuous Enrollment

All graduate students are expected to enroll and pay tuition and fees by the 12th class day of the fall and spring semester of each academic year until graduation. If the student has reached the thesis/research paper/project or dissertation state of their graduate program, enrollment in the thesis, affiliated studies or dissertation course is required each fall and spring semester until completion. Students applying for summer graduation must be enrolled in the dissertation/thesis course during the summer session in which he or she intends to graduate. Departments can determine the number of hours required each semester to accomplish continuous enrollment. The only alternative to continuous enrollment is a leave of absence (see following section).

If the student who is not approved for a leave of absence fails to enroll by the 12th class day, she/he may not return to the University without applying for readmission. The student must apply for readmission to the Graduate School and must pay the application fee if absent for more than one year. The student may be accepted for readmission, or the student may be denied readmission by either the Graduate School or graduate program.

Leave of Absence

Graduate students may apply in writing for a leave of absence for no more than two long semesters. This request must be approved in advance of the leave by the graduate advisor, program director, dean of the college, and the Vice Provost for Graduate Studies. The student on leave must reapply for admission in order to return to the University,

but readmission during the approved period of the leave is automatic and the application fee is waived. A leave of absence does not change the time limit for completion of the student's graduate program of study.

Scholastic Probation and Suspension of Graduate

A minimum grade point average overall (cumulative) of 3.0 (B) is required for a graduate degree. Every semester hour of "C," must be balanced by one of "A," since an overall average of "B" is required for a degree. Should graduate or doctoral students make less than a "B" average (3.0 GPA) in a given semester, they will be placed on scholastic probation. During the following semester or summer session, they must recoup an overall "B" average or be automatically suspended. Students may be readmitted only after petitioning the dean of the college and receiving approval from the dean and the Vice Provost for Graduate Studies. Master's students with other than clear admission are subject to criteria set forth under the sections on probationary and tentative admission on page 29, respectively.

IMPORTANT NOTE: All students are responsible for knowing whether they are eligible to continue at the University. An ineligible student who nevertheless registers, or has registered 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.

Graduate Degree Information

Degree Programs

UT Pan American offers the following types of graduate curricula:

1. Graduate curricula leading to one of the following master's degrees conferred by the University:
 - Master of Accountancy (MACC)
 - Master of Arts (MA)
 - Master of Arts in Interdisciplinary Studies (MAIS)
 - Master of Business Administration (MBA)
Integrated Program: "Bachelor of Business Administration/Master of Science in Accounting (BBA/MSA)
 - Master of Education (MEd)
 - Master of Fine Arts (MFA)
 - Master of Public Administration (MPA)
 - Master of Science (MS)
 - Master of Science in Engineering (MSE)
 - Master of Science in Criminal Justice (MSCJ)
 - Master of Science in Nursing (MSN)

- Master of Science in Interdisciplinary Studies (MSIS)
 - Master of Science in Social Work (MSSW)
2. Graduate curricula leading to certification for teachers and administrators at the master's degree level.
 3. Graduate curricula leading to the Doctor of Philosophy (Ph.D.) with a major in business administration or a major in rehabilitation counseling, the doctor of education (Ed.D.) in educational leadership, and the Pharm.D. in Pharmacy in cooperation with The University of Texas at Austin.

Graduate Degrees and Certifications

Graduate degrees are offered in the following fields:

Graduate Degrees

DOCTORAL DEGREES

College of Business Administration
Business Administration (Ph.D.)

College of Education
Educational Leadership (Ed.D.)

College of Health Sciences and Human Services
Rehabilitation Counseling (Ph.D.)
Pharmacy (Pharm.D.) in cooperation with The University of Texas at Austin

MASTER'S DEGREES

College of Arts and Humanities
Art (MFA)
Communication (MA)
Creative Writing (MFA)
English (MA)
English as a Second Language (MA)
History (MA)
Music (MM)
Spanish (MA)
Theatre (MA)
Master of Arts in Interdisciplinary Studies (MAIS)
Concentrations in
English
History
Music
Spanish

College of Business Administration
Business Administration (MBA)
Accountancy (MACC)
Accounting (MSA)

College of Education
Bilingual Education (MEd)

- Early Childhood Education (MEd)
- Educational Administration (MEd)
- Educational Diagnostician (MEd)
- Educational Leadership (Ed.D.)
- Elementary Education (MEd)
- Gifted and Talented Education (MEd)
- Guidance and Counseling (MEd)
- Kinesiology (Physical Education) (MS)
- Reading (MEd)
- Secondary Education (MEd)
- School Psychology (MA)
- Special Education for the Culturally and Linguistically Diverse Learner (MEd)
- College of Health Sciences and Human Services
 - Adult Health Nursing (MSN)
 - Communication Sciences and Disorders (MS)
 - Family Nurse Practitioner (MSN)
 - Occupational Therapy (MS)
 - Pediatric Nurse Practitioner (MSN)
 - Physician Assistant Studies (MPAS)
 - Rehabilitation Counseling (MS)
 - Social Work (MSSW)
- College of Science and Engineering
 - Biology (MS)
 - Chemistry (MS)
 - Computer Science (MS)
 - Engineering (MSE)
 - Electrical
 - Manufacturing
 - Mechanical
 - Engineering Management
 - Information Technology (MSIT)
 - Mathematical Science (MS)
 - Mathematics Teaching (MS)
 - Master of Science in Interdisciplinary Studies (MSIS)*
 - Chemical Education
 - Physics
- College of Social and Behavioral Sciences
 - Criminal Justice (MSCJ)
 - Clinical Psychology (MA)
 - Experimental Psychology (MA)
 - Public Administration (MPA)
 - Sociology (MS)
 - Master of Arts in Interdisciplinary Studies (MAIS)
 - Concentrations in Anthropology
 - Global Security Studies and Leadership

CERTIFICATION PROGRAMS

- College of Education
 - Graduate Teacher Education - Secondary Education
 - Graduate Teacher Education ñ Kinesiology
 - Department of Curriculum and Instruction

Reading Specialist

Department of Educational Psychology
Licensed Professional Counselor

Department of Educational Leadership
Principal’s Credential
Superintendent’s Credential

Graduate Curriculum

1. The curriculum in each graduate program will include knowledge of literature of the discipline.
2. The curriculum in each graduate program will ensure ongoing student engagement in research and/or appropriate professional practice and training experiences.
3. Faculty with graduate faculty membership will teach graduate courses and provide thesis/dissertation supervision.

Doctoral Degree Requirements

For specific requirements, see the catalog sections on the doctorate in business administration on page 94, the doctorate in educational leadership on page 115, the doctorate in rehabilitation counseling on page 133, and the cooperative doctorate in pharmacy on page 118.

Once a student registers for the dissertation, he or she must continue to enroll in the appropriate dissertation course each succeeding semester (except summer sessions) until the dissertation is completed.

Master’s Degree Requirements

The following are requirements for a master’s degree:

1. A student cannot receive two master’s degrees at the same time. Students who wish to pursue more than one major that fall under different disciplines, must decide at the point of graduation the type of degree he/she will receive. For students wishing to pursue a new degree, please refer to the section of “Additional Master’s Degrees” on page 47.
 2. Thirty-six hours of coursework or, with the thesis option, 24 hours of coursework plus six hours for the thesis will be required. Once a student registers for the thesis, he or she must continue to enroll each succeeding semester (except summer sessions) until the thesis is completed. Credit is counted only once per thesis course level.
 - Thirty-six hours of coursework are required for the Master of Business Administration (MBA).
 - The MS in Rehabilitation Counseling requires 48 hours, including three hours for practicum and nine hours of internship/thesis/research project.
 - Forty-eight hours are required for the clinical psychology option of the MA in Psychology.
 - Other degree programs may require additional hours.
- For more information, see the sections of the catalog that pertain to the specific degree programs.

3. During or at the end of the student's final semester of work, the student may be given a comprehensive written examination as required by the graduate degree program. Students must arrange comprehensive examinations with their advisor prior to graduation.

4. Degree programs may allow a student the option to include a maximum of six 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 college are acceptable.

5. 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.

6. Seven-Year Time Limit: 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 Vice Provost for Graduate Studies.

7. A student must have a cumulative GPA of at least 3.0 in master's coursework.

8. Residency: The majority of credits toward a graduate degree must be earned in residence.

Dissertation and Thesis Requirements

Each college and/or department may have its own guidelines for the development and completion of the dissertation or thesis. A master's level student considering the thesis option should contact the department head or graduate studies director in his or her college or program for specific procedures. A doctoral student should refer to the dissertation requirements and procedures in the program's degree information or contact the doctoral program director.

A manual that details the University requirements for the format and submission of a dissertation or thesis is available on the Graduate School Web site. Before submitting an approved dissertation or thesis and required copies (see below), the student must pay a fee at the Office of Payments and Collections for binding and/or publication of the dissertation in Dissertation Abstracts or of the thesis abstract in Masters Abstracts. If a student wishes to copyright the dissertation or thesis, an additional fee must be paid. The student must present a receipt for these fees at the time of submission. Fees may also be posted on the student's account to be paid online.

The original thesis and two copies (signed by the student's supervisory committee) and must be submitted to the Graduate School as well as payment made to the Office of Payments and Collections or online for the required fees, at the latest, the day before commencement ceremonies are scheduled for that semester. (See the calendar beginning on page six for the exact dates.) A department may require additional copies of the thesis (at additional binding expense to the student). A student will not be certified for graduation unless the thesis is submitted to the Vice Provost for Graduate Studies and the appropriate fees paid.

Individual department deadlines for submission of

a thesis to the student's supervisory committee will be established to complement the thesis time schedule of the Graduate School.

If a student wishes to have additional copies of the thesis bound for personal use, the student may do so at additional cost. Copies of students' thesis and dissertations will be available to the public in the UTPA library.

Interdisciplinary Programs

UT Pan American offers two interdisciplinary degree programs at the graduate level, the Master of Arts in Interdisciplinary Studies (MAIS) and the Master of Science in Interdisciplinary Studies (MSIS).

Master of Arts in Interdisciplinary Studies

This degree offers the student the option of obtaining a broader background at the master's level, rather than specializing in a particular area. The degrees both have the same basic structure:

Non-thesis Option

Eighteen hours in Discipline One (concentration area)

Nine hours in Discipline Two

Nine hours in Discipline Three

Thesis Option

The thesis option provides a similar distribution of hours, but with the thesis being completed in place of six hours of coursework.

The following areas — anthropology, English, history, music, and Global Security Studies and Leadership have defined the courses required for a concentration in their area. See pages 74, 80 and 164 respectively.

Special Requirements for the MAIS

1. At least 12 hours but no more than 18 hours of graduate work must be taken in the primary area of concentration. Anthropology, English, history, music and Global Security Studies and Leadership have defined concentration areas in this catalog.

2. At least six hours of coursework in the area of concentration must be upper-level graduate work (6000-level).

3. At least three 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 College of Education. A maximum of six hours may be taken in the College of Business Administration.

6. Students seeking the MAIS degree 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 unless reinstated by special permission of the Vice Provost for Graduate Studies.

MASTER OF SCIENCE IN INTERDISCIPLINARY STUDIES

This degree offers the student the option of obtaining a broader background at the master's level, rather than specializing in a particular area. The degrees both have the same basic structure:

Non-thesis Option

- Eighteen hours in Discipline One (concentration area)
- Nine hours in Discipline Two
- Nine hours in Discipline Three

Thesis Option

The thesis option provides a similar distribution of hours, but with the thesis being completed in place of six hours of coursework.

The following areas physics and chemical education - have defined the courses required for a concentration in their area. See pages 145 respectively.

Additional Master's Degrees

A student seeking an additional master's degree must:

1. Complete a minimum of 30 hours of additional graduate credit (or 24 hours for 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 or by the graduate degree program.
3. Complete all requirements for the additional degree, including grade point average requirements, elective courses, etc. as set forth in this catalog.

A maximum of six 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 advisor for details.

General Information

Graduation Under A Specific Catalog

The degree requirements that must be completed for graduation will be those in effect at the time of the student's entrance or those provided in a subsequent catalog. In any case, the catalog used to determine the degree requirements must not be more than seven-years-old for students seeking a master's degree and 10 years old for students seeking a doctoral degree.

Any changes in the degree plan to comply with a later catalog must be approved by the department chair and the dean of the college.

Teaching Certificates

Requirements for teaching certificates in various fields or areas are shown in the respective academic sections of this catalog. General information is shown on page 47 for graduate students and is listed in the Undergraduate Catalog for undergraduate students.

Consult the Office of the Dean of the College of Education for full details on all certification requirements.

Degree Plan

All graduate students must submit a degree plan outlining their coursework by the end of their first long semester of graduate coursework. The degree plan must be signed by an advisor, department chair and dean, then submitted to the Graduate School for inclusion in the student's official file.

Graduation Policies and Procedures

◆ Application for Degree

All students who intend to receive a degree from UT Pan American must submit a completed Application for Degree Form to the Graduate School by the published deadlines in the University Calendar. Applications received after the deadlines may 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 nonrefundable graduation fee of \$32 is charged for undergraduate and graduate degrees. This fee is payable at the Office of Payments and Collections, Student Services Building, Room 1.145, at the time the candidate presents the Application for Graduate School. This fee is used to pay for the processing of 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 \$10 fee each time the

graduation date is transferred.

◆ Filing of Dissertation and Master's Thesis

For students who are graduating under the thesis option, the original thesis and two copies (signed by the student's supervisory committee) and a receipt for the required fees must be submitted to the Graduate School 30 days prior to graduation. The specific deadline date is listed in the academic calendar in this catalog, beginning on page six.

◆ Commencement Exercises

The University of Texas-Pan American holds commencement exercises and confers degrees three times each year — in December, May and August.

◆ 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 ensure 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 the Registrar. Prospective graduates will not receive special consideration for lack of knowledge of graduation requirements, deficiencies or deadlines.

Academic Support Services

University Library

The University Library is the campus center for resources that support the academic programs at The University of Texas-Pan American. The four-story brick and glass structure contains 202,000 square feet. The cornerstone of the building was dedicated on April 10, 1978; a modern addition was completed in early 1999.

The Library houses a collection of over 655,000 print and online books, over 159,000 government documents, more than 30,000 print and online journal subscriptions, Over a million microform units and over 26,000 audiovisual items. Library collections and databases may be accessed at workstations throughout the building, on and off campus. Instructional services are provided in state-of-the-art-classrooms. Of interests to the region are the special collection materials contained in the Lower Rio Grande Valley Historical Collection and the Rio Grande Folklore Archive. Materials available pertain to the Texas counties of the Rio Grande Valley and northeastern Mexico.

The library has close to 300 microcomputer work stations connected to the Library local area network (LAN) and available for accessing information resources and e-mail.

Connectivity with the Internet provides access to UTPA online catalog and online full text resources as well as the catalogs of other library collections. Library patrons are offered services that include reference and information consultation and assistance, computerized database searching, interlibrary loan and library use instruction.

All UT Pan American students must be registered in order to borrow materials from the library and use other services during the fall and/or spring semester(s). Graduate students who are registered in the spring semester will automatically receive privileges for the summer sessions. Students who are not registered during the fall or spring semester(s) may obtain the public patrons card.

The benefits of the Public Patrons card extended for one full year are that members:

- May check out materials according to circulation policies

Students enrolled in cooperative programs: Students enrolled in cooperative programs must be registered in either the cooperating institutions to have library privileges. These students can use UTPA library services by obtaining Texshare Card from their original institutions.

Students with incomplete courses: Un-enrolled UT Pan American students with incomplete courses during the fall or spring semesters need to purchase the Public Patrons Library card if they wish to use the library services.

All online resources of the University Library are available throughout the year, detailed information about hours and services may be obtained at the circulation desk or the Library Web site at www.lib.utpa.edu, or by calling 956/381-3306 or voice/TDD 956-381-2763.

English Language Institute

The English Language Institute provides English language instruction to students, professionals and other individuals whose first language is not English; enhances ESL students' ability to participate successfully in an American cultural environment; and academically prepares students to pursue a degree at an American university. The English Language Institute has offered non-credit intensive and semi-intensive instructional English programs to nonnative speakers from the community and abroad since 1972. *Lamar Building, Room. 1,* phone: 956/381-2133. e-mail: eli@utpa.edu. Web site: <http://www.utpa.edu/eli>.

Advanced Services for Student Information Supported by Technology (ASSIST)

In order to provide students with easy access to student information, The University of Texas-Pan American developed ASSIST (Advanced Services for Student Information Supported by Technology).

With ASSIST technology, students may access general, academic and financial information from home or any place they have access to the Web. Personal information is

protected by the student's UTPA Username and Password. Students receive these as a part of the admission process. For assistance the student may contact the IT Help Desk located in the Academic Services Building, Room 1.102.

Official means of communication with students and UTPA

The official means of student communication from The University of Texas-Pan American regarding administrative issues is the preferred e-mail address in the student's record in the BANNER Student Information System. Important information, such as *financial aid award notification, registration information, payment deadlines, how to access bills and grades*, is sent to the student's preferred email address. It is the student's responsibility to ensure their preferred email address is correct and valid. Updates can be made via ASSIST. The student is also responsible for checking this email account frequently especially at the beginning and end of the semester

A Registration Access Code (RAC) and PIN are required to access ASSIST registration services. The RAC is issued to students by an academic advisor each semester.

ASSIST services include the following:

Kiosk Information Stations: Currently, 15 kiosk information stations are located across the UT Pan American campus, with plans to add more stations in the future. These stations are located in the Administration Building, Academic Services Building, Business Administration Building, Communication Arts and Sciences Building, Education Building, Engineering Building, Health Sciences East Building, Physical Education II Building, Science Building, Social and Behavioral Sciences Building, Student Union, Student Services Building, University Library and the Visitors Center.

Kiosk services include:

- Campus Map and Directory
- Calendar of Events
- Staff and Faculty Job Openings
- General Information: Course Availability, Department List, Standard Forms
- Financial Aid Awards (PIN required)
- Student Records (PIN required):
Account Balance,
- Admission Status, Grades/Unofficial Transcript, Student Schedule, Degree Audit

Voice Response (Telephone) System: Information on admissions, grades, registration and payments can be accessed through the voice response system with a touch-tone phone. (These are not toll-free numbers.)

Voice Response services include:

- Records and Registration — 956/381-3040
- Application Status
- Deadline Dates/How to Apply

- Requirements for Admission
- Texas Success Initiative (TSI) Information
- Grades (PIN required)
- Registration Information
 - Class Schedule (PIN required)
 - Dates and Procedures
 - Registration Holds (PIN required)
 - Transcript Information
 - Dates Available/How to Request Registration 956/381-3000 (RAC and PIN required)

Payment may be made with your VISA, MASTERCARD, or DISCOVER via ASSIST:
ASSIST Telephone Payment: 956/381-3030
ASSIST Web Payment: www.assist.utpa.edu

KIOSK Payment at 15 locations:

- Academic Support Services Building
- Administration Building
- Business Administration Building
- Communication Arts and Sciences Building
- Education Building
- Engineering Building
- Health Sciences East Building
- Physical Education II Building
- Science Building
- Social and Behavioral Sciences Building
- Student Services Building
- Student Union Building
- University Center
- University Library
- Visitors Center

Payments and Collections — 956/381-3030

- How to Pay Fees/Office Location
- Tuition Information/Deadline Dates
- Current Balance/Residency Status (PIN required)
- Request Parking Permit (PIN required)
- Credit Card Payment (PIN required)

Web for Students: Admission, grade, registration and financial information can be accessed on the Web at assist.utpa.edu

Web services include:

- University Catalogs
- Class Schedules
- Admission Information
 - Apply for Admission
 - View Admission Status
- Registration (RAC and PIN required)
 - Add/Drop Classes
 - View Class Availability
 - Conditional Drop/Add
 - Student Schedule (graphic)
 - Student Schedule (detailed)
 - View Fee Assessment
- Student Records (PIN required)

- View Address Information
- Update Address
- View Grades
- Academic Transcript
- Account Summary
- Change PIN Number
- Request a transcript degree audit
- Financial Aid Awards (PIN required)
- Payment Services by credit card, e-check, emergency loan application

Student Services and Information

Student Travel

Student travel at The University of Texas-Pan American will be guided by the student travel policy in the Handbook of Operating Procedures Section 5.6.3 as follows:

A. Purpose

The purpose of this policy is to set forth University rules and procedures regarding student travel and to comply with The University of Texas System policy and State Law (Texas Education Code §51.949) relating to student travel. University students may travel off campus when representing a student organization, University department or engaging in intercollegiate competition or academic activities. Examples of student travel include, but are not limited to, class field trips and assignments; attendance at scholarly or professional conferences; University-funded student organization travel; class trips for educational or cultural enrichment; athletic, student publication, dramatic, music or forensic competition or performances; student leadership conferences; placement forums; and graduate school visits.

B. Authorization

Student travel, as described above, must be registered with and approved by the dean of students or his or her designee. The Authorization for Student Travel and Release of All Claims forms must be completed and submitted to the Office of the Dean of Students at least two weeks prior to the trip. Each individual requesting authorization for travel must submit a completed Release of all Claims Form with the Authorization for Student Travel Form.

C. Statutory Requirements

The statutory requirements in Section D of this policy are applicable to student travel undertaken by one or more currently enrolled students to reach an activity or event that meets all of the following criteria:

1. An activity or event organized and sponsored by the University. An activity or event is considered to be organized and sponsored if it has been planned and funded by the University and approved by the dean of students or his or her designee.
2. The activity or event is located more than 25 miles from the University.
3. (a) Travel to the activity or event is funded and

undertaken using a vehicle owned, rented or leased by the University; or (b) attendance at the activity or event is required by a registered student organization and approved in accordance with this policy.

D. Safety and Mode of Travel

1. All Motor Vehicle Travel

(a) Seat Belts

Occupants of motor vehicles shall use seat belts or other approved safety restraint devices required by law or regulation at all times when the vehicle is in operation. The number of occupants in a vehicle cannot exceed the number of working seatbelts in the vehicle.

(b) Alcohol and Illegal Substance Prohibited

Occupants of motor vehicles shall not consume, possess, or transport any alcoholic beverages or illegal substance. Operators shall not drive while under the influence of drugs or alcohol; this includes over the counter or prescription medication that may impair the driver's ability.

(c) Passenger Capacity

The total number of passengers in any vehicle at any time it is in operation shall not exceed the manufacturer's recommended capacity or the number specified in applicable federal or state law or regulations, whichever is lower. Fifteen-passenger vans shall not be used to carry more than nine occupants (including the driver) at any one time. Consideration should be given to decreasing the number of passengers if luggage is to be transported in the same vehicle; luggage should be stored under seats or in the rear storage area.

(d) License and Training

Each operator of a motor vehicle shall have a valid operator's license, be at least 18 years of age and trained as required by law to drive the vehicle that will be used. Persons who drive a 15-passenger van must successfully complete a van driving training course at least once every three years. Van driving training is available at the Department of Environmental Health and Safety.

(e) Proof of Insurance, Inspection and Safety Devices

Each motor vehicle to which this policy applies must be covered by liability insurance and display a current state inspection certificate, be equipped with all safety devices or equipment required by federal or state law or regulation and comply with all other applicable requirements of federal or state law or regulations.

(f) Legal Operation of Vehicle and Driving Schedule

Operators of motor vehicles shall comply with all laws, regulations, and posted signs regarding speed and traffic control and shall not operate the vehicle for a continuous period that is longer than the maximum provided by federal or state law. A driver may not drive longer than four continuous hours without a scheduled rest stop. The rest stop must last a minimum of 30 minutes before that same driver may resume driving. Total driving time within a 24-hour period may not exceed eight hours per authorized driver. There should be no driving between the hours of 11 p.m.-6 a.m. without prior approval of the appropriate administrative official.

2. Travel Using a Vehicle Owned, Rented or Leased by the University

(a) Service and Maintenance

In addition to those provisions in Section F.1, each vehicle owned or leased by the University must be subject to scheduled periodic service and maintenance by qualified persons and comply with all applicable requirements of The University of Texas System Business Procedures Memorandum.

(b) Operators of Vehicles

All operators of vehicles owned, rented or leased by the University shall be employees of the University and shall have a valid operator's license for the operation of the particular vehicle. All drivers of rental vehicles must be listed on the vehicle rental agreement. In addition, operators shall have a current motor vehicle record on file with the University Department of Environmental Health and Safety. Drivers must have a rating of three points or less as required by The University of Texas System Business Procedures Memorandum 16-03-02 Automobile Insurance Coverage for Officers and Employees and General Requirements for the Use of Vehicles (BPM 16-03-02).

(c) Travel by common carrier

When a common carrier is used for student travel covered by this policy, the University shall take reasonable steps to assure the travel is undertaken in conformance with this policy.

E. Business Procedures Memorandum

For additional information regarding insurance, safety, and mode of travel, refer to BPM 16-03-02. A copy of the policy can be obtained at the office of the Vice President for Business Affairs or at www.utsystem.edu/bpm/16.htm

F. Coordination of Travel

1. Each group must designate a travel coordinator who is responsible for submission of all travel documents, as well as for carrying all necessary documents on the trip.

2. When possible, the advisor or group sponsor should travel with the group and serve as travel coordinator.

3. In case of an accident, the travel coordinator or designee will contact the University Police Department, who will notify appropriate personnel.

4. Prior to leaving, each group must receive a pre-trip orientation, which must include:

(a) Applicable rules of conduct as per the University's Student Code of Conduct and this Student Travel Policy;

(b) Itinerary and contact information;

(c) Safety issues while traveling and while at the destination point.

5. Students who use their own vehicle or another privately owned vehicle for approved travel are expected to follow all safety requirements set out in this policy.

Student Right to Know and Campus Security Act

The Student Right to Know and Campus Security Act of 1990 requires that colleges and universities take reasonable

steps to publicize 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 Police Department and the office of the Dean of Students work in conjunction each year to prepare the Campus Safety and Security Report in compliance with the Federal Student Right to know and Campus Security Act. This report contains specific information on campus crime statistics and campus security policies including campus crime prevention programs, procedures for reporting crimes on campus, and information about the number and frequency of crimes reported to the University Police Department, local law enforcement, and campus security authorities.

The University of Texas Pan-American Police Department is responsible for the welfare of faculty, staff and students on campus, for the security of the university and the enforcement of all state laws and University rules and regulations relating to motor vehicles and traffic on campus.

The University of Texas-Pan American is concerned about the safety and security of the entire University community. In an effort to provide a safe and secure campus, the University maintains a full-time professional police force composed of state-certified, licensed law enforcement officers, commissioned by The University of Texas System, with the power of arrest, and other noncommissioned security personnel. They patrol the campus 24 hours a day, 365 days a year.

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 someone is the victim of a crime or witnesses a crime, he or she should report it and cooperate with the University Police Department to ensure that the crime is properly investigated and prosecuted.

During emergency situations the University Police Department can be reached by calling 911 or dialing "HELP" (ext. 4357) from any university phone. For non-emergencies the police can be reached by dialing (956) 316-7151. The University Police Department is located at 501 N. Sugar Road or they can be reached at police@utpa.edu.

Crimes reported on the UT Pan American campus can be accessed at the following Web address: www.utpa.edu/campusafety.

A hard copy of the UTPA Campus Safety and Security Report can be requested by contacting the UTPA Empowerment Zone at 956/318-5375.

Any law enforcement information provided by state law enforcement agencies concerning registered sex offenders may be obtained from the UT Pan American Police Department at 956/316-7151.

University policies and Texas law prohibit the disruption of University operations 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 Handbook of Operating Procedures Section 4.9.1.

—Important Phone Numbers —

University Police 316-7151 or H-E-L-P (4357)

Counseling Psychological Service	381-2529
Dean of Students	381-2260
Student Health Services	381-2511
Empowerment Zone	318-5375
Substance Abuse Services	
Disability Services	
Student Judicial Services	

Family Educational Rights and Privacy Act (FERPA)

The Family Educational Rights and Privacy Act (FERPA), 20 U.S.C. §1232g, and the Texas Public Information Act, Texas Government Code §552.001 et seq., are respectively federal and state laws that provide for the review and disclosure of student educational records.

In accordance with these laws, The University of Texas-Pan American has adopted the following policy. Individuals are informed of their rights under these laws through this policy, which is included in the University's Handbook of Operating Procedures (HOP), Section 5.2.3 and this catalog. The catalog is available for inspection at <http://www.utpa.edu/catalog/> and the Handbook of Operating Procedures is available at <http://www.utpa.edu/hop>.

The University will not permit access to or the release of personally identifiable information contained in student education records without the written consent of the student to any party, except as follows:

1. To appropriate University officials who require access to educational records in order to perform their legitimate educational duties.
2. To officials of other schools in which a student seeks or intends to enroll, is enrolled in or receives services from, upon request of these officials.
3. To federal, state or local officials or agencies authorized by law.
4. In connection with a student's application for, or receipt of, financial aid.
5. To accrediting organizations or organizations conducting educational studies, provided that these organizations do not release personally identifiable data and destroy such data when it is no longer needed for the purpose for which it was obtained.
6. To the parents of a dependent student as defined in section 152 of the Internal Revenue Code of 1954. This is for Financial Aid and Financial records only and does not include academic records.
7. In compliance with a judicial order or subpoena

provided a reasonable effort is made to notify the student in advance, unless such subpoena specifically directs the institution not to disclose the existence of a subpoena.

8. In an emergency situation if the information is necessary to protect the health or safety of students or other persons.

9. To an alleged victim of any crime of violence, the results of the alleged perpetrator's disciplinary proceeding may be released.

Additionally, any law enforcement information provided by state law enforcement agencies concerning registered sex offenders may be released from the UT Pan American Police Department. The police department can be contacted at 956/316-7151.

The University will release information in student education records to appropriate University or University of Texas System officials as indicated in no. 1 above when there is a legitimate educational interest. A school official is a person employed by the University in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted (such as an attorney, auditor or collection agent); a person serving on The University of Texas System Board of Regents; or a student serving on an official committee or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an educational record in order to fulfill his or her professional responsibility. Upon request, the University discloses education records without consent to officials of another school in which a student seeks or intends to enroll.

Where required by regulations, a record of requests for disclosure and such disclosure of personally identifiable information from student education records shall be maintained by the custodian of the public record for each student and will also be made available for inspection pursuant to this policy. If the University discovers that a third party who has received student records from the university has released or failed to destroy such records in violation of this policy, the university will determine any future access by that third party and may take further appropriate action. Respective records are no longer subject to audit nor presently under request for access may be purged according to regular schedules.

Directory Information

At its discretion, the University may release directory information which shall include:

1. name, address, telephone number
2. date and place of birth
3. major field of study
4. participation in officially recognized activities and sports
5. dates of attendance

6. most recent previous educational institution attended
7. classification
8. degrees and awards received
9. date of graduation
10. physical factors (height and weight) of athletes
11. photographs
12. University e-mail address

Students may have directory information withheld by notifying the Office of the Registrar in writing. Requests for nondisclosure will be honored by the institution until such time that the student grants permission, in writing, to release the information.

Access to File

Upon written request, the University shall provide a student with access to his or her educational records. The Vice President for Business Affairs at UT Pan American has been designated by the institution to coordinate the inspection and review procedures for student education records, which include admissions files, academic files and financial files. Students wishing to review their education records must make written requests to the Vice President for Business Affairs listing the item or items of interest. Education records covered by the Act will be made available within 45 days of the request.

A list of education records and those officials responsible for the records shall be maintained at the Office of the Vice President for Business Affairs. This list includes:

◆ Academic Records

Office of Admissions and New Student Services:

SSB 3.104

New Student Services, SS 1.109

Office of the Registrar:

SSB 1.150

College, Division, Department and Faculty Offices:
various locations on campus

◆ Enrollment and Student Services/ Student Services Records

- Counseling Services Office: Director, Rm #7
- Learning Assistance Center, LAC 100
- Student Services: Dean of Students Office, UC 104
- Residence Life: Director, MRH
- Career Placement Services: SSB, 2.101

◆ Financial Records

Business Office: Vice President for Business Affairs,
SSB, 5.101

Student Financial Services: Director, SSB 186

Educational records do not include:

1. Financial records of the student's parents or guardian.
2. Confidential letters of recommendations that were

placed in the educational records of a student prior to January 1, 1975.

3. Records of instructional, administrative and educational personnel that are kept in the sole possession of the maker and are not accessible or revealed to any other individual except a temporary substitute for the maker.

4. Records of law enforcement units.

5. Employment records related exclusively to an individual's employment capacity.

6. Medical and psychological records.

7. Thesis or research papers.

8. Records that only contain information about an individual after the individual is no longer a student at the institution.

Challenge to Record

Students may challenge the accuracy of their educational records. Students who believe that their educational records contain information that is inaccurate or misleading, or is otherwise in violation of their privacy or their rights, may discuss their problems informally with the department that generated the record in dispute. If an agreement is reached with respect to the student's request, the appropriate records will be amended. If an agreement is not reached, the student will be notified within a reasonable period of time that the records will not be amended, and he or she will be informed by the head of that department of his or her right to a formal hearing.

Students' requests for a formal hearing must be made in writing to the Vice President for Business Affairs who, within a reasonable period of time after receiving such requests, will inform students of the date, place and the time of the hearing. Students may present evidence relevant to the issues raised and may be assisted or represented at the hearings by one or more persons of their choice, including attorneys, at the student's expense. The hearing officer who will adjudicate such challenges will be appointed by the vice president for Business Affairs in non-academic matters and by the Provost/Vice President for Academic Affairs in academic matters.

Decisions of the hearing officer will be final, will be based solely on the evidence presented at the hearing, consist of the written statements summarizing the evidence and stating the reasons for the decisions, and will be delivered to all parties concerned. The education records will be corrected or amended in accordance with the decision of the hearing officer, if the decision is in favor of the student. If the decision is unsatisfactory to the student, the student may place with the education records statements commenting on the information in the records or statements setting forth any reasons for disagreeing with the decision of the hearing officer, or both.

The statements will be placed in the education records, maintained as part of the student's records and released whenever the records in question are disclosed.

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 University.

Copies

Students may have copies of their educational records and this policy. These copies will be made at the student's expense at rates authorized in the Texas Public Information Act. (There is no charge for student transcripts.) Official copies of academic records or transcripts will not be released for students who have a delinquent financial obligation or financial "hold" at the University.

Complaints

Complaints regarding alleged failures to comply with the provisions of the FERPA may be submitted in writing to the Family Policy Compliance Office, U.S. Department of Education, 400 Maryland Avenue SW, Washington, D.C. 20202-4605.

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.

Each student, by registering, enters some college 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. 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 college.

◆ 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 within one year after the disputed grade is issued or the misunderstanding occurred. 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 College 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 College 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/director 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.

Student Complaint Procedures

Purpose

The University of Texas-Pan American endeavors to provide fair and objective procedures for hearing student complaints and endorses compliance with the spirit of non-discrimination regulations. The following will advise students of procedures to be followed in filing non-academic complaints.

The University of Texas-Pan American is committed to providing equal opportunity to all persons seeking employment, access to its programs, facilities, or services without regard to race, religion, color, sex, disability, age, veteran status, national origin, or sexual orientation. Students are protected from coercion, intimidation, interference, harassment, retaliation, or discrimination for filing a complaint or assisting in an investigation students may pursue complaints through the office of the Dean of Students, University Center, Room 104, 956/381-2262.

Discrimination/Disability Complaints

Students with questions concerning discrimination in employment or based on sex or disability must contact the appropriate compliance officer prior to initiating grievance procedures. Compliance officers are listed below:

Equal Opportunity and Affirmative Action:

1. Dean of Students, University Center, Room 104, 956/381-2262.

2. **Sexual Harassment:** The University of Texas-Pan American condemns sexual harassment of or by its students, staff and faculty. The University is committed to the principle that the learning and working environment of its students, employees and guests should be free from sexual harassment and inappropriate conduct of a sexual nature. Sexual harassment is a form of sexual discrimination and is illegal. Students who believe they have been subjected to sexual harassment are encouraged to immediately report the incident to the dean of students, the EO/AA officer, or the supervisor of the accused individual. The dean of students, or his or her designee, will work in consultation with the EO/AA officer to resolve the complaint.

3. **AIDS-related Issues: Acquired immune deficiency syndrome, human immunodeficiency virus infection, and Hepatitis B virus:** The University of Texas-Pan American recognizes human immunodeficiency virus (HIV) and hepatitis B virus (HBV) as serious public health threats and is committed to encouraging an informed and educated response to issues and questions concerning these infections. Students may not be subjected to impermissible discrimination on the basis of human immunodeficiency virus (HIV) or (HBV). The policy addressing these issues may be found in the Handbook of Operating Procedures see Section 2.2.2. Student complaints or inquiries should be directed to the director of Student Health Services, Student Health Center.

4. **Americans with Disabilities Act and Section 504 of the Rehabilitation Act:** The University of Texas-Pan American is committed to providing services, equipment, and accommodations to individuals with documented disabilities in order to provide them with equal opportunities to participate in programs, services, and activities in compliance with Sections 303 & 504 of the Rehabilitation Act of 1973, as amended, and the Americans with Disabilities Act. Students or applicants for admission, with complaints alleging violations of the Title II of the Americans with Disabilities Act and Section 504 of the Rehabilitation Act shall file complaints in writing with the ADA Coordinator, Presidents Office.

Family Educational Rights and Privacy Act

The Family Educational Rights and Privacy Act (FERPA) concerns the maintenance and confidentiality of student records. The University's policy regarding FERPA may be found in the Handbook of Operating Procedures section 5.2.3 and page 52 of this catalog. Students who believe their records are inaccurate or have been disclosed in an unauthorized manner should contact the Vice President for Business Affairs, Student Services Building, Fifth Floor, 956/381-2121.

All Other Non-Academic Complaints

In an effort to resolve misunderstandings or concerns, a student must first make every effort to resolve the problem by discussing his or her concerns with the faculty or staff member against whom the complaint is lodged. If the concern still exists, the student may discuss the complaint with the appropriate chair or head of the department in which the complaint originated. In addressing the student's complaint, the department chair or head solicit information

from both the student and employee, may confer with anyone having information pertinent to the complaint, and /or may hold a meeting between the student and the employee in an effort to mediate and resolve the complaint.

If the complaint is not resolved to the student's satisfaction, the student may appeal in writing to the next administrative level. The appeal must be made within 60 days after the student's initial meeting with the department chair or head. A decision made at the administrative level must be mailed or delivered in person to the student within 30 days of the receipt of the student's written appeal. Additional appeals may be pursued through the appropriate lines of authority to the vice presidential level. The thirty day time line applies to each appeal and to each notification as described above. Decisions at the vice presidential level will be final. Students should consult "Student Complaint Procedures" in the Handbook of Operating Procedures for detailed information or request assistance from the Office of the Dean of Students, University Center, Room 104, 956/381-2262.

Student Advisement for Concerns/Complaints

The Office of the Dean of Students in University Center, Room 104, offers assistance to students who have concerns or complaints other than those addressed above, or who have questions regarding existing policies and procedures.

Student Conduct and Disciplinary Code

Student Conduct

- a. The University considers cultivation of self-discipline by its students to be of great importance in the development of responsible citizens. Therefore, the University expects its students to maintain standards of personal discipline that are in harmony with the education goals and purpose of the University.
- b. Although the University is committed to the full support of the constitutional rights of its students, including due process, it also has an equal obligation to protect its educational purpose and the interest of the student body. The University must therefore be concerned with the actions of individuals or groups that are in conflict with the welfare and integrity of the institution or in disregard of the rights of other students or faculty.
- c. Attendance at a tax-supported educational institution of higher learning is optional and voluntary. By such voluntary entrance into the academic community of the University, students voluntarily assume the obligations of performance and behavior imposed by the University relevant to its lawful missions, processes, and functions.
- d. When students enter the University, it is assumed that they have a serious purpose and a sincere interest in their own social and intellectual development. They are expected to learn to cope with problems with intelligence, reasonableness, and consideration for the rights of others;

to obey laws and ordinances of the nation, state, and community for which they, as well as the University, are a part. As students prize rights and freedoms for themselves, they are expected to respect the rights and freedoms of others.

e. The administration of student discipline at the University is a responsibility shared by students, faculty, and administrative staff. In many cases, peer group influence, counseling, admonition, and example may resolve problems of student conduct. Where these preferred means fail, resort is made to disciplinary procedures. Any academic or administrative official, faculty member, or student may file a complaint against any student for misconduct. A student may be penalized herein, even though he or she is also punished by state or federal authorities for the same act.

f. Students are subject to federal, state, and local laws as well as University rules and regulations. Students are subject to reasonable disciplinary action, including suspension and expulsion in appropriate cases, for breach of federal, state, or local laws or University rules and regulations.

g. Individuals who are not currently enrolled at the University remain subject to the disciplinary process for conduct that occurred during any period of enrollment, and for statement, acts, or omissions related to application for enrollment or the award of a degree.

General Rules and Regulations on Campus

Rules and regulations relating to the students of the University are enacted with the view towards protecting the best interests of the individual, the general welfare of the entire student body, and the educational objectives of the University. These rules and regulations are few, and most students will not find them unduly restrictive. Violations of institutional rules and regulations, including those which may subsequently be enacted, may subject a student to disciplinary action.

The Student Conduct Code can be found in section 5.5.2. of the Handbook of Operating Procedures and the student disciplinary hearing and appeals procedure can be found in section 5.5.3 of the Handbook of Operating Procedures.

Hazing

Under state law individuals or organizations engaging in hazing could be subject to fines and charged with a criminal offense.

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 dean of students or other appropriate individual of the institution firsthand 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. An organization commits an offense if the organization condones or encourages hazing or if an officer or any combination of members pledges or alumni of the organization commits or assists in the commission of hazing.

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 in good faith and without malice to the dean of students or other appropriate individual of the institution and immunizes that person from participation in any judicial proceeding resulting from that report. Additionally, a doctor or other medical practitioner who treats a student who may have been subject to hazing may make a good faith report of the hazing activities to police or other law enforcement officials and is immune from civil or other liability that might otherwise be imposed or incurred as a result of the 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 in 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.

Sexual Assault

Victims of sexual assault or persons who have information regarding a sexual assault are strongly encouraged to report the incident to the University Police Department immediately. It is the policy of the department to conduct investigations of all sexual assault complaints with sensitivity, compassion, patience and respect for the victim.

Reports of sexual assault can also be made to the Edinburg Police Department at 956-381-7411 of the Hidalgo County Sheriff's Office at 956-383-8114.

All information and reports of sexual assault are kept strictly confidential. In accordance with the Texas Code of Criminal Procedure Art. 57, victims may use a pseudonym to protect their identity. A pseudonym is a set of initials or a fictitious name chosen by the victim to be used in all public files and records concerning the sexual assault. The victims of sexual assault are not required to file criminal charges or seek judicial actions through the university disciplinary process. However, victims are encouraged to report the assault in order to provide the victim with physical and emotional assistance. UTPA personnel will assist you in notifying the authorities if you request it.

The University will provide students assistance in changing academic and on-campus living situations after an alleged sexual offense if so requested by the victim and if accommodations are reasonably available. Arrangements for changes in academic schedules for changes in (or moving to) on-campus living accommodations should be made through the director of Residence Life.

Information and assistance is also available through:

- Student Counseling Center, 956/381-2574, UC 109
The counseling center has trained counselors who offer individual, personal and group counseling to students who are the victims of sexual assault.
- Student Health Services, 956/381-2511, Student Health Center
The Student Health Center provides medical services to students who have been victims of sexual assault and can be the first contact after a sexual assault, during clinic hours. After hours, students are encouraged to contact the University Police Department so that a victim advocate can be sent to meet the student at a local hospital. Clinic hours are 8a.m.-7 p.m. Monday through Thursday and 8 a.m. to 4 p.m. on Friday.
- Campus Assault Response Effort (CARE), 956/381-5375, UC 320
The CARE program has trained victim advocates that are able to assist students who have been the victims of sexual assault.
- The Rape Crisis Center 1-800-580-4879, 420 N. 21st, McAllen

Women Together/ Mujeres Unidas offer services for sexual assault victims. The Rape Crisis center offers a 24-hour hotline, victim's assistance, and confidential counseling.

Should a victim choose to file charges through the campus disciplinary process the Office of the Dean of Students will assist the student in cases of alleged sexual offenses (forcible and non-forcible). Policies and procedures regarding campus disciplinary proceedings are described in section 5.53 of the Handbook of Operating Procedures. The accuser and the accused are entitled to the same opportunities to have others present during a campus disciplinary processing involving sex offenses and both will be informed of the final determination with respect to an alleged sex offense and any sanction that is imposed against the accused. Providing this information to the accused and accuser does not violate provisions of the Family Educational Right to Privacy Act (FERPA). Sanctions in University disciplinary proceedings regarding rape, acquaintance rape, or other forcible and non-forcible sex offenses range from probation to expulsion.

Medical Treatment

It is important to seek immediate and follow-up medical attention for several reasons: first, to access and treat any physical injuries you may have sustained; second, to determine the risk of sexually transmitted diseases or pregnancy and take preventative measures; and third, to gather evidence that could be used to aid criminal prosecution. Physical evidence should be collected immediately, ideally within the first 24 hours. It may be collected later than this, but the quality and quantity of the evidence may be diminished. Area hospitals that can provide thorough rape exams and evidence collection are:

- McAllen Medical Center, 956/632-4000, 301 W. Expressway 83, McAllen
- Mission Hospital 956/580-9000, 900 S. Bryan Road, Mission, Texas

Solicitation on Campus

The University's policy on solicitation is outlined in The University of Texas- Pan American Handbook of Operating Procedures Section 8.4.5. (The term "solicitation" means the sale, lease, rental or offer for sale, lease, rental of any property, product, merchandise, publication, or service, whether for immediate or future delivery; an oral statement or the distribution or display of printed material, merchandise or products designed to encourage the purchase, use or rental of any property, product, merchandise, publication or service; the receipt of or request for any gift or contribution; or the request to support or oppose or to vote for or against a candidate, issue or proposition appearing on the ballot at any election held pursuant to state or federal law or local ordinances.) While solicitation is prohibited on any property, street, or sidewalk, or in any building, structure,

or facility owned or controlled by the University or The University of Texas System, please refer to the policy for a list of permissible activities.

Student Services

Career Services

About Career Services

The University of Texas-Pan American's Office of Career Services is committed to providing high quality services that enable students throughout the time they are enrolled and after they graduate, to explore career options. Through partnerships with employers, faculty and staff, Career Services works to empower students to make effective career choices based on realistic self evaluations and comprehension of the world of work, resulting in prepared graduates who market their education, skills and experiences to achieve life-long career success.

Career Services' programs and services are designed to serve the entire student population from the first-year student exploring career interests to graduating students seeking their first entry level opportunity. The services offered are available to all full-time and part-time undergraduates and graduate students.

Individual Career Counseling

Students are encouraged to discuss their choice of major as well as related career plans, with the counseling staff of Career Services. Advisors are also available to review résumés, conduct mock interviews and plan for graduate school. Staff appointments for these services are recommended at least 2-3 days in advance. Our professional staff is also available to review resumes and cover letters, and offer suggestions for possible improvement.

Information on Majors

More than 40 handouts provide information on each major with regard to related areas of the work world, typical employers, professional associations, and job search strategies. Everything from health to communication to business to education, we have a helpful array of take-home information for practically every occupational field.

Career Information Center

Our career library offers a wide range of books, magazines, and brochures addressing all occupational areas. Career books, occupational guides, and directories can be used to clarify and confirm your initial impressions about a career field, and to obtain occupational descriptions. Eight computers are also available for your career planning and job search needs.

Bronc Career Connection

The Bronc Career Connection (BCC) is UTPA's official job/résumé posting site available for students and alumni only. All full-time entry-level, experienced, internships and part-time jobs are posted on the BCC. By signing up on the BCC, students can learn more about their upcoming careers and explore their choices. Students looking for part-time employment either on or off campus can find job postings on the Bronc Career Connection at any time of the year. To find out more information about pursuing a part-time job you can make an appointment with their appropriate advisor.

Walk-In Hours

Meet one-on-one with a career advisor for brief résumé reviews without an appointment. "Walk-in" hours are during specified times Monday-Friday. For hours call 956/ 381-2243.

Career Fairs

Career Services hosts seven career fairs during the academic year. The career fairs are a must-attend for all students from all classifications as they are an excellent opportunity for students to meet with a variety of employers in one location. For a complete list of all career fairs and dates visit the Career Services website.

- HESTEC Career Expo
- Criminal Justice Career Expo
- Graduate and Professional School Fair
- Teachers Job Expo
- Annual Career Day
- Student Employment Job Fair

Office Hours

Monday-Friday
8a.m.-5p.m.

*Extended Hours—5–6 pm are offered in the Fall (September–November) and Spring (Jan.=April) semesters.

Contact Us

The University of Texas-Pan American
Student Services Building, Room 2.101
1201 W. University Drive
Edinburg, TX 78539-2999
Phone: (956) 381-2243
Fax: (956) 381-2244
<http://careerservices.utpa.edu>

University Testing Services

The University Testing Services is a test center for numerous national and specialized examinations such as the Graduate Record Examination (GRE), Graduate Management Admissions Test (GMAT), Test of English as a Foreign Language (TOEFL), Law School Admissions

Test (LSAT), Medical College Admission Test (MCAT), Pharmacy College Admission Test (PCAT) and a number of other graduate, professional and licensure exams. University Testing Services is located at the UTPA Annex AASA 180, 2412 S. Closner, Edinburg, TX 78539-2999. Telephone 956/292-7585. E-mail: testing@utpa.edu Website: step.utpa.edu

Empowerment Zone: Disability Services

The Disability Services Office exists to ensure that students with disabilities are able to participate in the full range of college experiences. Our goal is to promote optimal development and achievement in all students while fostering independence and self-advocacy. In addition, we work to promote an environment that is free of physical and attitudinal barriers.

In order to provide proper accommodations, the Disability Services Office has set procedures that must be followed to ensure quality service. To begin our evaluation process we require proper documentation from credited professionals that are rendering diagnosis. Requirements are as follows:

- An evaluation of the disability by a credited medical professional.
- Documentation should include a description of functional limitations as well as the current impact of the disability on daily activities
- Documentation must be on letterhead and contain the professional's signature and license number.
- Documentation must be no more than three years old.

Once the requirements have been met, students may contact the Disability Services Office for an appointment.

Services are also provided for students with a temporary disability, such as broken bones and recent surgeries, with proper documentation.

Additional information may be obtained by calling 956/316-7005 (Voice/TDD 316-7092, fax 316-7034) or visiting the University Center, Room 320.

Student Health Services

Student Health Services is here to meet the health care needs of our students so they can focus on their studies. As a UTPA student you have paid a Medical Service Fee that allows you to be seen at the clinic as often as needed. The office visits are free of charge as are most educational services. There are low-cost charges for medicines, supplies and any needed lab tests.

The Student Health Center offers the same types of services you can get from your family doctor and much more. Our services include general medical care as well as specialty clinics in women's wellness, skin care and STD screening. We also have routine immunizations and tuberculosis (TB) testing required by many educational programs at UTPA. Our Class-D pharmacy can fill most

prescriptions written in the clinic and carries a selection of over-the-counter items.

Student Health Services is located at 613 North Sugar Road adjacent to the Wellness and Recreational Sports Center. We see students on a limited walk-in basis but you will spend less time waiting and be allowed to choose your health care provider if you call ahead for an appointment at 956/381-2511.

The UTPA Student Health Services is accredited by the Accreditation Association for Ambulatory Health Care (AAAHC). UTPA has the distinguished honor to be the first in the UT System to hold the AAAHC accreditation. There are currently only six college health facilities accredited in the state of Texas.

Pursuant to Texas Education Code 51.9191, the Student Health Services office provides each student, when they first enroll, important information regarding bacterial meningitis through ASSIST, the online student information system.

Student Immunizations: In accordance with state law, the following immunizations are required for all students enrolled in health-related courses that 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, if born after 1957. The required two doses should be administered at least 28 days apart or have 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 of rubella vaccine administered on or after the first birthday or proof of immunity.

Tetanus/diphtheria: Proof of one "booster" dose of TD vaccine 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.

Varicella (Chicken Pox): Proof of two doses of varicella vaccine unless the first dose was received prior to thirteen years of age.

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

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

Students may obtain information from Student Health Services 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.

Services Offered

Eligibility Payments: As a registered student, you pay

a Medical Service Fee each semester, which entitles you to a wide variety of Student Health Services. With a validated UTPA ID, you are entitled to office visits to see a health care provider as many times per semester as you need with no office visit charge. There are charges for many services and procedures to diagnose and treat illnesses and injuries, such as for laboratory and pharmacy services, but these charges are much lower than those for comparable services provided elsewhere. Services rendered may be paid by cash, check and most credit cards. Payment arrangements are available.

General Medicine: Students with common medical problems are diagnosed and treated on a limited walk-in basis; however, appointments are preferred and necessary for students requesting elective procedures. Referrals to outside providers are made when necessary.

Physical Exams: UTPA students requiring a physical exam prior to admittance to a school program can have a physical exam done at Student Health Services for a nominal fee. Call Student Health Services to schedule an appointment.

Pharmacy: A fully licensed Class-D pharmacy is conveniently available. The pharmacy carries both prescription and over-the-counter medications. The costs of medications are greatly reduced compared to retail prices.

Laboratory: A full-service, economical lab is equipped to do routine procedures as well as specimen collections for more sophisticated procedures that must be sent to a reference lab for testing.

Immunization: measles/mumps/rubella, tetanus/diphtheria, hepatitis A and B, varicella, bacterial meningitis and flu vaccines are available. TB skin testing is also offered.

Women Wellness Clinics: These services include pap smears, family planning education and counseling, treatment of sexually transmitted diseases, pregnancy testing and other women's health issues.

HIV Testing: Free confidential HIV testing and counseling is available weekly. Call for scheduled days.

Other Services: Health education resources, nutritional counseling, vision screenings and weight and blood pressure screenings are also available.

Empowerment Zone: Substance Abuse Services

Substance Abuse Services has been established to meet the needs of all UT Pan American students who may have a substance abuse concern/issue or who may be dealing with a related concern. The Drug-Free Schools and Communities Act Amendments of 1989, Public Law 101-226, require that each campus implement a program to address substance abuse issues.

Substance Abuse Services is committed to all UT Pan American students by providing an environment for education, exploration and personal growth. The Substance Abuse Services staff maintains a dedication to the overall wellness of each student on campus. Substance Abuse Services strives to fulfill its responsibilities by providing a variety of different services to the student body. Some of these services include, but are not limited to, counseling,

crisis intervention and consultations. In addition, Substance Abuse Services has books, videos and literature available to faculty, staff and students.

The Substance Abuse Services staff is fully trained and licensed in chemical dependency and related issues. All of the services offered are strictly confidential, and services are free to all students.

The program offers individual counseling for students who are experiencing a substance abuse problem or who may be in recovery. Individual counseling is also available for related concerns, such as codependency or ACOA (Adult Children of Alcoholics) issues. All individual counseling is by appointment. Substance Abuse Services also provides group counseling. The program offers a recovery group and a group for students dealing with loved ones that have a substance abuse problem. Groups are run once a week at designated times. The staff is available for referrals, consultations, group presentations and crisis intervention services.

Substance Abuse Services is located in the University Center, Room 320. For more information call 956/318-5375. Substance Abuse Services is open from 8 a.m. to 6 p.m., Monday through Thursday and Friday from 8 a.m.-5 p.m. Appointment may be made at other times to fit the student's schedule.

Student Publications

Students at UT Pan American are invited to contribute and work on the staff of student publications. Writing, editing and photography usually start before the opening of classes in the fall semester. Some positions are paid, but volunteer workers also are sought as reporters, copy editors and headline writers. The student-run newspaper, *The Pan American*, and *Panorama* magazine are headquartered in the Department of Communication in the Communication Arts and Sciences Building, Room 170, 956/381-2541.

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 and assistance in starting up new organizations is available in the Office of Student Development, University Center, Room 205, 956/381-2660 or visit www.osd.utpa.edu.

Academic Organizations

Academic student organizations are designed to further develop academic and career interests in an informal setting. In these organizations, students may compete in local or national competitions in their academic area and attend conferences that allow them to network with professionals in their field. Academic student organizations are based

on subject-matter specialties and each College has a variety of organizations to choose from that range from the American Sign Language Club to the Association of Clinical Laboratory Sciences.

Student Government Association

The Student Government Association of The University of Texas Pan-American is dedicated to providing an outlet for the student body to express concerns, questions, and suggestions about your institution. The Student Government Association also assists with the facilitation of the more than 30 campus committees that affect the lives of our student community.

University Program Board

The University Program Board is a student-run organization that provides diverse programming funded by Student Fees. They sponsor various events throughout the year including concerts, comedy, coffeehouse, lectures, cultural, bus trips, and special events. By utilizing the expertise of seven student committee chairs, UPB ensures that each experience provides an opportunity for networking, leadership development, strong friendships and lasting memories.

Fraternity and Sorority Life

Social fraternities and sororities have been a vital part of the University since the 1960's. They provide a small group living experience that enhances the co-curricular life of every Greek student through academic, social, educational, leadership, and community service activities. There are both national and international fraternities and sororities at UTPA with diverse backgrounds and histories.

Honor Societies

Honorary organizations on campus give special recognition to students who have achieved outstanding academic success. Some honor societies recognize scholarship in specific curricula, while other student honor societies recognize scholarship at various stages of the student's development. Some honor societies reward those who have excelled in several areas and select members because of their academic superiority as well as the leadership they have demonstrated on campus or in the community.

Faith-Based and Spiritual Organizations

Faith-based and spiritual organizations provide an opportunity for students to strengthen their spiritual and faith development through religious education, friendship, and guidance with other students who share their same values, ideas, and faith.

Cultural Organizations

Cultural student organizations are tied together through their focus on racial, ethnic, and cultural celebration and reflect and affirm the diversity of all UTPA students.

Special Interest Organizations

Special interest organizations are student organizations that reflect a wide range of interests include political and social action based organizations, artistic experience, hobbies and activities.

Recreational Organizations

There are several organizations whose members focus primarily on a sport, outdoor recreation or wellness endeavor. Recreation can be as personally driven as yoga, or physically driven as running, swimming or soccer.

Service Organizations

We have several different student service/ advocacy specific organizations. Each organization is unique in its membership and service area focus. Yet, what unifies all of the organizations are their dedication for engaging students in positive social change at UTPA and the surrounding community.

- ◆ UTPA Fraternities
 - Delta Upsilon
 - Kappa Sigma
 - Omega Delta Phi
 - Phi Kappa Theta
 - Phi Sigma Kappa
 - Sigma Lambda Beta
 - Tau Kappa Epsilon

- ◆ UTPA Honor Societies
 - Alpha Lambda Delta
 - Alpha Phi Sigma
 - Golden Key International Society
 - Lambda Alpha
 - Phi Kappa Phi
 - Phi Theta Kappa Alumni Association
 - Psi Chi
 - Sigma Tau Delta

- ◆ UTPA Faith and Spiritual Organizations
 - Provide an opportunity for people with similar belief systems to share their values, ideas and faith.

- ◆ UTPA Government Association

- ◆ UTPA Sororities
 - Alpha Sigma Tau
 - De Ha Xi Nu

Delta Zeta
 Eta Omega Tau
 Kappa Delta Chi
 Sigma Lambda Gamma

- ◆ UTPA Special Interest Organizations
 Reflect a wide range of interests and include political and social action-based organizations, artistic experiences, hobbies and activities.
- ◆ UTPA Multicultural Organizations
 Represent and reflect UTPA's ethnic and international diversity.
- ◆ UTPA Departmental Organizations
 - Accounting Society
 - ACTUE
 - Advertising Club
 - ALEGRE
 - Alpha Kappa Psi
 - American Advertising Federation
 - American Marketing Association
 - American Sign Language Club
 - American Society of Mechanical Engineers
 - Anthropology Club
 - Asociacin de Futuros Maestros de Español
 - Association for Computing Machinery
 - Association of Clinical Laboratory Sciences
 - Association of Information Technology Professionals
 - Association of Public Administration
 - Bilingual Education Student Organization
 - Biology Club
 - Bronc Cadet Club
 - Bronc Pre-Pharmacy Club
 - Criminal Justice Association
 - Dr. Wiener's Society of Mathematics
 - Elliott Chemical Society
 - Financial Management Association
 - Forum on International Relations
 and Business Affairs
 - French Club
 - Graduate Association of Student Social Workers
 - Health and Kinesiology Club
 - History Club
 - Institute for Electrical and Electronic Engineers
 - Julian Castillo Association of Physical Assistants
 - MBA Association
 - Music Educator National Conference (Chapter 652)
 - National Student Speech Language
 and Hearing Association
 - Philosophy Club
 - Political Science Association
 - Pre-Law Society
 - Pre-Med/Bio-Med Club
 - Psychology Club
 - Public Relations Student Society of America
 - Rehab Club
 - Residence Hall Association
 - Social Work Association
 - Society for Human Resource Management

Society for Manufacturing Engineers
 Society of Automotive Engineers
 Society of Hispanic Professional Engineers
 Society of Women Engineers
 Sociology Club
 Student Council of Exceptional Children
 Student Dietetics Association
 Students in Free Enterprise
 Student Nursing Organization
 Student Occupational Therapy Association
 University Program Board
 UT Cares

The Office of Residence Life

The Residence Life staff at UTPA invites you to join our residence life community to help through this transition and assist you in taking full advantage of all the resources the University offers. While living on campus, you will have tremendous opportunity to learn more about yourself, others, and the world around you. Whether you are beginning your collegiate experience or continuing your education, the Department of Residence Life encourages you to consider the many benefits of campus living.

NOTE: Residence Life opening and closing dates, and all fees for room and board rates are subject to change. Please verify all of this information with the Office of Residence Life at 956/381-3439. For reservation and other information on University residence halls and the Bronc Village Apartments, contact the:

Office of Residence Life
 The University of Texas-Pan American
 1201 W. University Drive
 Edinburg, TX 78539-2999
 Telephone: 956/381-3439
 Fax: 956/384-5055
 E-mail: home@utpa.edu
 Web: <http://www.utpa.edu/reslife>

- ◆ Residence Halls Contract Policy
 Housing at the UTPA Residence Halls is available for UTPA students, faculty, staff, and participants of University-sponsored programs. Individuals seeking housing accommodations at the University must sign a Residence Hall Reservation Agreement and a Room and Board Contract on a semester basis. Space in the University Residence Halls is reserved on a first come, first served basis.

Housing Dining Services

The University Cafeteria, part of the University Center Complex, is conveniently located southeast of the Residence Halls. All residents must purchase the minimum required meal plan per semester, which is included in the room and board fee.

Room Furnishings

Each Residence Hall is designed in suite-style configurations. (Two adjacent rooms and a bathroom comprise one suite.) Residents are responsible for providing their own bed linens, blankets, towels, and toiletries.

Room Contents:

- Two chests of drawers
- Two single beds
- Two closets
- Two desks and chairs
- Window blinds
- Basic cable connection
- Central air and heat
- Individual Ethernet connections

Residence Hall Services

For your convenience, the UTPA residence halls provide the following in-house services:

- Study rooms
- Computer labs with network extension
- Laundry facilities
- Vending machines
- Community kitchenette and microwave
- Recreation room (with pool table, foosball, air hockey table, and cable television)
- Lounges
- Refrigerator rental
- Free on-site student parking

Safety and Security

Providing a safe living and learning environment for University residents is our foremost mission. To that end, the residence life staff coordinates various safety programs for residents throughout the year highlighting topics such as securing personal belongings, personal safety on and off campus, and the use of University Police escorts. In addition, resident and night assistants, trained in emergency procedures, are available to assist residents when necessary.

How to Apply

To reserve a room, complete a Residence Hall Reservation Agreement and return it with your \$75 deposit to:

Office of Residence Life
The University of Texas-Pan American
1201 W. University Drive
Edinburg, TX 78539-2999

The deposit is held by UTPA for as long as you are housed in the residence halls and is transferable from semester to semester. Deposits are refunded within two-three weeks upon official check out or cancellation of the Residence Hall Reservation Agreement provided that all deadlines are met, procedures are followed, no damage to the facility is recorded, and no extra room cleaning is required.

◆ Bronc Village Apartments Leasing Policy

Housing at Bronc Village is available for enrolled UTPA students and current faculty and staff only. The only exception to this policy relates to children and spouses of current

UTPA students, faculty or staff. Individuals seeking housing accommodations at Bronc Village must sign a Bronc Village Reservation Agreement. Space in Bronc Village is reserved on a first come, first served basis.

In order to be eligible for residency at Bronc Village, students must be at least 21 years of age.

Appropriate documentation must be presented in the case of married or family housing if the spouse and/or children are not current UTPA students, or faculty or staff members.

Dining Services

All Bronc Village residents must purchase at least the minimum declining balance meal plan for each fall and spring semester. The meal credit can be used at the University Cafeteria, Student Union Food Court, and for food items at the Student Union Convenience Store.

Room Furnishings

Bronc Village rooms and living room areas are furnished for the convenience and comfort of our residents. Room contents (per resident):

- One single bed
- One chest of drawers
- One built-in closet
- One desk and chair
- Individual network connections
- Sofa
- Chair
- Multi-use cube
- End table
- Dishwasher
- Conventional microwave
- Stove/oven
- Full-size refrigerator
- Washer/dryer units

Bronc Village Services

- Mail delivery
- Garbage collection
- Free on-site student parking

Safety and Security

Providing a safe living and learning environment for University residents is our foremost mission. To that end, the residence life staff coordinates various safety programs for residents throughout the year, highlighting topics such as securing personal belongings, personal safety on and off

campus and the use of University Police escorts. In addition, community assistants, trained in emergency procedures, are available to assist residents when necessary.

How to Apply

To reserve an apartment space, complete a Bronc Village Reservation Agreement and return it with your \$150 deposit to:

Office of Residence Life
The University of Texas-Pan American
1201 W. University Drive
Edinburg, TX 78539-2999

The deposit is held by UTPA for as long as you are housed in Bronc Village and is transferable from lease term to lease term. Deposits are refunded within two-three weeks upon official check out or cancellation of the Bronc Village Reservation Agreement provided that all deadlines are met, procedures are followed, no damage to the facility is recorded, and no extra room/apartment cleaning is required.

University Outreach Programs

University Outreach Programs

Academic Centers

Unless otherwise noted, all centers are located on the UTPA campus, 1201 W. University Drive, Edinburg, Texas 78539-2999.

Border Health Office

The mission of the Border Health Office is to foster collaborative health education, health services and health research leading to improved health for Texans living along the Texas-Mexico border. It was created in 1990 in response to recommendations from a task force of representatives from health-related UT System institutions and other University, state and federal agencies that continue to guide the office's activities. The Border Health Office has collaborated with community-based agencies to promote health services and education, providing technical assistance to communities and institutions, sponsoring health education efforts, including conferences and workshops, and most recently establishing a Diabetes Registry.

UTPA Annex, 2412 S. Closner, Edinburg, TX 78539-2999

Phone: 956/381-3687

Email: tmbhco@utpa.edu

www.utpa.edu/bho

Center for Border Economic Studies

The Center for Border Economic Studies is a public policy research unit dedicated to the study of problems unique to the U.S.-Mexico border. Its research efforts are directed at publishing working papers and technical reports that encompass a wide array of economic and socioeconomic issues. CBEST-affiliated scholars conduct policy-oriented research in four key areas of importance to the border region: (1) regional economic development and trade; (2) labor market and immigration; (3) health and environmental policy; and (4) information technology. The Center also publishes a quarterly newsletter, border business briefs, of economic indicators in the Lower Rio Grande Valley as well as an annual forecast of these indicators.

Office of Graduate Studies, Rm. AB 116

Phone: 956/381-3661

Email: cbest@utpa.edu

www.utpa.edu/cbest

Coastal Studies Laboratory

The Coastal Studies Laboratory (CSL), established as a marine biology laboratory in 1973 in Isla Blanca Park on South Padre Island, was reorganized and expanded in 1985 with a concentration on University education, public education and coastal research. The CSL's public display contains representative species of fauna and flora from the immediate area of the Lower Laguna Madre and South Padre Island. The CSL also supports classes and field trips from the University and other schools; many universities in Texas and surrounding states use the CSL facilities for field trips each year. A number of marine-oriented courses are offered at the Lab.

100 Marine Lab Drive, South Padre Island, Texas 78597

Phone: 956/761-2644

E-mail: coastal@utpa.edu

www.utpa.edu/dept/csl/csl.html

English Language Institute

The English Language Institute provides English language instruction to students, professionals and other individuals whose first language is not English; enhances ESL students' ability to participate successfully in an American cultural environment; and academically prepares students to pursue a degree at an American university. The English Language Institute has offered non-credit intensive and semi-intensive instructional English programs to nonnative speakers from the community and abroad since 1972.

Lamar Building, Rm. 1

Phone: 956/381-2133

Email: eli@utpa.edu

<http://www.utpa.edu/eli>

Institute for Population Health Policy

The Institute for Population Health Policy (IPHP) coordinates health policy research initiatives and provides resources for policy-oriented research to faculty and students at UTPA. The IPHP facilitates population health policy research on campus and disseminates research activities to both academic and health policy circles. The long-term goal of the Institute's research program is to improve health status and reduce health disparities. The Institute thrives to become a national leader in population health, health economics and health services research. The IPHP has collaborative partnerships with several universities with an international reputation in health care and health policy research.

International Trade and Technology Bldg., Rm. 1.404N

Phone 956/318-5306

www.utpa.edu/iphp

International Journal of Mathematics and Mathematical Sciences

The main editorial office of the International Journal of Mathematics and Mathematical Sciences (IJMMS) is located in the Department of Mathematics at The University of Texas-Pan American. This is a refereed weekly journal devoted to publication of original research papers, research notes, and research expository and survey articles, with emphasis on unsolved problems and open questions in mathematics and mathematical sciences. All areas listed on the cover of mathematical reviews — such as Pure and Applied Mathematics, Mathematical Physics, Theoretical Mechanics, Probability and Mathematical Statistics and Mathematical Biology — are included within the scope of the journal. Dr. Lokenath Debnath, professor and chair of the Department of Mathematics, is the founding managing editor of IJMMS. The international journal will always carry out not only research, knowledge, and information, but also the name and therefore, the prestige of The University of Texas-Pan American.

Department of Mathematics

Phone 956/381-3452

www.math.utpa.edu/ijmms.html

Neuhaus Center for Entrepreneurship and Economic Education

The Neuhaus Center for Entrepreneurship and Economic Education is a multifaceted center that aims to propagate the benefits of entrepreneurship and the market system to the Rio Grande Valley community. With regard to education programs, the center coordinates a set of courses on entrepreneurship that undergraduate students in the College of Business Administration may take to obtain a minor in entrepreneurship. The center is affiliated with the Texas Council on Economic Education. Through this partnership, programs on economic education are offered to elementary and secondary school teachers. The research activities of the center foster basic and applied research on

the characteristics and workings of the small firm with a particular emphasis on the Rio Grande Valley and northern Mexico. One primary research goal of the center is to better understand the forces driving small business success in the local community.

College of Business Administration, Rm. 216B

Phone: 956/381-7136

http://coba.utpa.edu/neuhaus

Raúl Yzaguirre Policy Institute

The Raúl Yzaguirre Policy Institute (RYPI) is the first national Latino leadership and policy institute along the U.S.-Mexico border. The mission of RYPI is to create a world-class center for scholarship research in areas affecting and impacting Hispanics and to serve as a catalyst in the constructive formation of tomorrow's Hispanic leaders. The main goals of the institute include (1) training Latino leaders at all levels and exposing all leaders to Latino issues and (2) researching regional, national and international issues that impact or are impacted by Latinos. The policy research program collects and disseminates information pertaining to the social, political and economic forces affecting Hispanics in America. Researchers analyze the effects of government actions relating to public policy including their causes and consequences.

Office of Graduate Studies, Rm. AB 116

Phone: 956/381-3661

www.utpa.edu/yzaguirre

South Texas Border Health Disparities Center

The South Texas Border Health Disparities Center at The University of Texas-Pan American is dedicated to the advancement of knowledge on health disparities by enhancing the institutional capacity to conduct health disparities research addressing issues particular to the largely Hispanic population along the U.S.-Mexico border. The Center was established in September 2008 by a grant from U.S. Department of Health and Human Services.

International Trade & Technology Bldg., Rm. 1.404N

Phone: 956/316-7937

www.utpa.edu/health

Speech and Hearing Center

The UT Pan American Speech and Hearing Center's Speech-Language and Audiology clinics provide comprehensive evaluations for children, college students and older adults. The Speech-Language Clinic evaluates speech, language, feeding, swallowing and related behaviors. The Audiology Clinic evaluates hearing and provides hearing aid fittings. Clients may be referred to other treatment centers in the area or recommended for therapy in the Speech and Hearing Center. Therapy services are provided in the Speech and Hearing Center on a limited basis. The clinic treats communication disorders related to aphasia, fluency, developmental delay, voice, dysphagia, hearing impairment and others. Evaluation and therapy services are available in English or Spanish. The center also provides accent reduction

classes for individuals learning American-English as a second language.

Health Sciences and Human Services Bldg. West, Rm. 1.112
Phone: 956/381-3587

Statistical Consulting Center

The Statistical Consulting Center is an educational and service center within the Department of Mathematics at UTPA that provides training to students, assists individuals in practical use of statistics, participates in research projects by providing high quality statistical advice and collaborates with researchers in interdisciplinary research activities. The center provides statistical consulting advice on design of experiments, data management, statistical modeling, and statistical analysis of experiments and studies. Its customers include students, faculty and research groups from UTPA, and researchers from academic and non-academic organizations in the Rio Grande Valley.

Department of Mathematics

Phone: 956/381-3452

<http://www.math.utpa.edu/xhwang/scc.html>

Texas Manufacturing Assistance Center

The Texas Manufacturing Assistance Center (TMAC) exists to enhance the competitive position of the state's manufacturing sector. TMAC's manufacturing professionals work with a wide range of industrial firms delivering training, providing technical assistance, and implementing best business practices. A particular emphasis is placed on the needs of small to mid-sized manufacturers. Focus areas include lean manufacturing and lean office principles, strategic management, quality systems, environment and safety. TMAC is an affiliate of the Manufacturing Extension Partnership (MEP) program of National Institute of Standards and Technology (NIST), which provides Federal funding. TMAC consists of seven partner institutions delivering services statewide.

Academic Support Facility, Rm. 1.301

Phone: 956/316-7011

Email: tmac@utpa.edu

www.utpa.edu/tmac

UTPA Press

Established in 1983 as an extension of the teaching mission of Pan American University, the Press serves both the academic community and the community at large. Through publication of research and materials of particular interest to the Southwestern region, bilingual and bicultural studies, and Latin American business, economic, and cultural topics, the Press emphasizes research unique to the university's geographic, demographic, and cultural heritage. In addition to publishing full-length manuscripts, the Press serves as publisher/distributor to monographs, collections, and other materials chosen and edited with the various divisions of the University.

Lamar Bldg., Rm. 9A

Phone 956/381-3638

Email: bookworm@utpa.edu

<http://utpress.utpa.edu>

Valley Markets and Tourism Research Center

The Valley Markets and Tourism Research Center in the College of Business Administration addresses social, cultural, environmental and economic issues related to the tourism industry locally, regionally and nationally. Tourism studies targeted by the center include senior travelers or "Winter Texans," Mexican national visitors to the United States, spring breakers at South Padre Island, ecotourism, historic tourism, recreational tourism and local residents' attitudes and reactions toward tourism. The center promotes tourism to Texas, particularly South Texas, and assesses the economic impact of tourism on the regions. It also provides an opportunity for students to learn applied research methodologies and to become involved in the research activities of the center.

College of Business Administration, Rm. 124A

Phone 956/381-2829

<http://coba.utpa.edu/tourism>

Community Engagement

The mission of The Division of Community Engagement is to enhance UTPA's engagement with the community to meet challenges and maximize opportunities. Community Engagement is located at the International Trade and Technology Building and the UTPA Administrative Annex Building, which includes three focus areas. Each of the three focus areas, listed below with contact information, includes a number of sponsored centers, projects, and initiatives.

- **Economic and Community Development** is located at the International Trade and Technology Building, 1201 W. University, Edinburg, and can be reached via (956) 381-3361 or visiting the web sites.
- **Business Development and Innovation** is located at the UTPA Annex, AASA 160, 2412 S. Closner, Edinburg, and can be reached by calling 956/292-7535 or 292-7555 or visiting the respective web sites.
- **Rural Enterprise Development**—is located at the UTPA Annex, AASA 160, 2412 S. Closner, Edinburg, and can be reached by calling 956/292-7555 or 292-7535 or visiting the respective web sites.

Economic and Community Development (ECD)

Center for Entrepreneurship and Economic Development (CEED): Serves as a catalyst for business and economic development through the development of public and private partnerships. <http://www.utpa.edu/ceed/>

International Trade and Technology Center (IT²): Promotes international trade through the use of the latest technology. <http://www.utpa.edu/it2/>

Data and Information System Center (DISC): Serves the southernmost 19 counties of Texas by meeting their data and mapping needs. <http://www.utpa.edu/disc/>

Southwest Border Nonprofit Resource Center (SBNRC): Builds capacity for sustainable, long-term development of nonprofit organizations through technical skills training, funding-sources research, and philanthropic-organizations' networks. <http://www.utpa.edu/sbnrc/>

Mobile Community-Development Initiative (MCDI): Extends Community Engagement resources into South Texas communities through the use of a technologically advanced mobile unit. <http://www.utpa.edu/mcdi/>

Hispanic Engineering Science and Technology (HESTEC) Program: Promotes science, technology, engineering, and math careers among South Texas students and culminates each year in a week-long event that promotes science literacy. <http://www.utpa.edu/hestec/>

Festival of International Books and Arts (FESTIBA): An annual university community-engagement event that celebrates the arts and humanities, encourages literacy, and broadens cultural awareness. <http://www.utpa.edu/festiba/>

Business Development and Innovation (BDI)

Small Business Development Center (SBDC): Provides managerial and technical assistance to small business owners and entrepreneurs through free one-on-one business counseling and through workshops and seminars. <http://www.utpa.edu/sbdc/>

Project ASSIST: Assists small businesses along the Texas-Mexico border that are negatively impacted by NAFTA, with an emphasis on job creation and retention in South Texas. <http://www.utpa.edu/assist/>

Procurement Technical Assistance Center (PTAC): Provides counseling, planning assistance, and training to business owners in a nine-county South Texas region to assist them in obtaining federal, state, local, and private contracts. <http://www.utpa.edu/ptac/>

Texas Veterans Business Outreach Center (VBOC): Assists in the creation, retention, and development of veteran-owned businesses across Texas and 14 surrounding states through on-line and on-site counseling and through training seminars. <http://www.utpa.edu/vboc/>

Rural Enterprise Development (RED)

Texas Rural Cooperative Center (TRCC): Provides training

and technical assistance to rural cooperatives, cooperative members, and member businesses in Texas with an emphasis on rural cooperative development in the South Texas region. <http://www.utpa.edu/trcc/>

Hispanic Producers New Markets Initiative (HPNMI): Provides training and assistance to Hispanic farmers and ranchers to facilitate their entry into new, non-traditional, and value-added agricultural production in a 38-county Texas border-region area. <http://www.utpa.edu/hnmi/>

Farm Ownership and Rural Growers Empowerment Project (Project FORGE): Provides outreach, training, and technical assistance to Hispanic producers of traditional crops in a 56-county border-region area in Texas and New Mexico. <http://www.utpa.edu/forge/>

Farmers' Market Development Center (FMDC): Assists with the development of farmers' markets and other direct-marketing options for small-scale agricultural producers in a 26-county South Texas Region. <http://www.utpa.edu/fmdc/>

Initiative to Grow Farmers for Direct Marketing: recruits small-scale farmers to participate in farmers' markets that are located in a 26-county region of South Texas. <http://www.utpa.edu/igfdm/>

Initiative for Child Nutrition through Agriculture (ICNA): Establishes nutrition gardens at public schools in South Texas and incorporates garden production into school lunch programs. <http://www.utpa.edu/icna/>

Cultural Activities

Art Department Exhibits

The Charles and Dorothy Clark Gallery, located in the Fine Arts Complex, and the University Gallery, located in the Communication Arts and Sciences Building (COAS), feature art exhibitions that are free and open to the public throughout the year. Works by UTPA faculty and students as well as professional artists are exhibited. Located in the Lamar School complex, the Lamar Gallery exhibits work from the University's permanent collection. The art galleries are administered through the Department of Art. The office for the University Art Galleries is adjacent to the Clark Gallery in the Fine Arts Complex. The gallery director may be reached at 956/381-2655 or by e-mail at galleries@utpa.edu.

Dance Companies

UT Pan American Dance Ensemble: Founded in 1984, the Dance Ensemble is the only modern/contemporary dance company in the Rio Grande Valley. Membership in the company is open to all UT Pan American students and is determined by audition. The Dance Ensemble focuses on producing formal theatrical dance performances that maintain high artistic and production standards. Health and Physical Education Building II, Room 110, telephone 956/381-2315.

UT Pan American Folkloric Dance Company: The UT Pan American Folkloric Dance Company, organized in 1970, has as its purpose the preservation and performance of the dance art of Mexico and Spain. During the performing season, the company presents numerous concerts for school children, the general public and private affairs throughout the University, community and state. Membership in the company is available through class audition. Health and Physical Education Building I, Room 110F, telephone 956/381-2230.

Faculty Artist Series

During the school year, the Department of Music presents a series of performances by faculty members in addition to student recitals. Included in these recitals are vocal and instrumental performances. Fine Arts Complex, Room 132, telephone 956/381-3471.

Guest Author Program

Through its Guest Author Program, the Department of English brings prominent literary authors novelists, poets, dramatists to campus to address the student body and the public. Department of English, Communication Arts and Sciences Building, Room 211, telephone 956-381-3421. -

Musical Performances

Performing for students and the public are the University Choir, Men's and Women's Choruses, Concert Band, Jazz Ensemble, South Texas Chamber Orchestra, Mariachi and the Valley Symphony Orchestra and Chorale. Telephone 956/381-3471 for more information.

Albert L. Jeffers Theatre

The Albert L. Jeffers Theatre produces seven to 10 full-length plays each year, including three to four plays in the summer during Pan American Summer Stock (PASS), and four to five plays in the fall and spring. The community can purchase individual tickets to each performance; season subscriptions are also available.

University ID cardholders are permitted two free admissions per ID and as space permits. Actors include University students, faculty and staff, along with community members. The Albert L. Jeffers Theatre seeks to present, within a four-year cycle, quality productions featuring examples from every major genre of dramatic literature. Performances for children and children's theater classes are frequently offered. Funding for the Albert L. Jeffers Theatre is provided by Student Activity Fees, donations, grants and other sources. Communication Arts and Sciences Building (COAS), Box Office first floor, telephone 956/381-3581.

Public Use of Facilities

The property, buildings or facilities owned or controlled by The University of Texas-Pan American are not open for assembly, speech or other activities as are the public streets,

sidewalks and parks. The responsibility of the UT System Board of Regents to operate and maintain an effective and efficient system of institutions of higher education requires that the time, place and manner of assembly, speech and other activities on the grounds and in the buildings and facilities of the UT System or component institutions be regulated.

No person, organization, group, association or corporation may use property, buildings or facilities owned or controlled by UT Pan American for any purpose other than in the course of the regular programs or activities related to the role and mission of the University, unless authorized by the Regents' Rules and Regulations. Any authorized use must be conducted in compliance with the provisions of the Regents' Rules and Regulations, the University's Handbook of Operating Procedures, and applicable federal, state and local laws and regulations.

Anyone from outside the University who is seeking information about scheduling and use of University Special Use Facilities should contact the Office of the Director of Auxiliary Services at 956/381-2224.

For more information, consult the Regents' Rules and Regulations and the University's Handbook of Operating Procedures.



COLLEGE OF ARTS AND HUMANITIES

General Overview

The College of Arts and Humanities includes the departments of Art, Communication, English, History and Philosophy, Modern Languages and Literature, and Music.

Academic Programs

The College of Arts and Humanities offers the Master of Fine Arts in Art and in Creative Writing as well as the Master of Arts in English, English as a Second Language, history, Spanish, communication and theatre. Also available is the Master of Arts in interdisciplinary studies with concentrations in English, history, music, and Spanish.

In addition, the college provides several key graduate courses for students in graduate programs in other colleges.

The college also offers the Bachelor of Arts in art, English, history, Latin American studies, journalism, Mexican-American studies, music, philosophy, Spanish, communication and theatre. Students also may earn a Bachelor of Fine Arts in Art and may choose a further specialization in graphic design.

Students may minor in art, communication, English, French, history, journalism, Mexican-American studies, music, philosophy and Spanish.

Secondary teacher certification is available in art, English, French, history, journalism, music, Spanish, communication and theatre arts. Elementary teacher specialization or certification is available in art, history, music, social studies and Spanish, and all-level teacher certification is available in music.

Dr. Dahlia Guerra, Dean
 Communication Arts and Sciences Building,
 Room 334
 1201 W. University Drive
 Edinburg, TX 78539-2999
 Telephone: 956/381-2175
 Fax: 956/381-2177
 E-mail: guerrad@utpa.edu
 Web site: <http://www.coah.utpa.edu>

ART

Fine Arts Building B, Room 225
 1201 W. University Drive
 Edinburg, TX 78539-2999
 Telephone: 956/381-3480
 Fax: 956/384-5072

Rey Santiago,
Graduate Coordinator
 Fine Arts Building B, Room 221
 Telephone: 956/381-2842
 E-mail: reynaldo@utpa.edu

Graduate Faculty
 Field, Philip, *Professor, Painting*
 Hyslin, Richard, *Professor, Sculpture and Ceramics*
 Phillips, Richard, *Assistant Professor, Art History*
 Sanders, Karen, *Assistant Professor, Photography*
 Santiago, Reynaldo, *Associate Professor, Painting and Printing*

Master of Fine Arts (MFA) in Art with a Concentration in Studio Art

Purpose

This program is designed for those who desire to pursue advanced studies in art. The MFA degree program will provide art students with the opportunity for concentrated study in their major area; this concentration will result in the expansion of their expressive capabilities for personal, professional and academic reasons. The objective of this degree program is to provide advanced study in preparation for careers as practicing artists/teachers at the college or university level, or as professionals in other art-related enterprises. The emphasis in the program is to further conceptual development; it is assumed that the student has already achieved technical excellence in his or her studio area.

Scope

The program is organized within a two-dimensional and three-dimensional structure; however, within that structure the student may specialize in drawing, ceramics, painting, printmaking, sculpture or mixed mediums. An optional track within the program provides the student with an option to develop a Mexican influence within the personal structure of the artwork. This track requires participation in at least two departmental trips to designated sites in Mexico.

Admission to the Master of Fine Arts Program

In order to be admitted to the Master of Fine Arts Program, the student must first meet all requirements for

graduate admission to UT Pan American (see Page 17), as well as the other requirements listed below. Application for admission must be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

All students applying for admission to the MFA in art with a concentration in studio art are required to provide the graduate coordinator with the following:

1. Applicable catalog(s) for evaluation of transcript(s) if not from UTPA.

◆ Specific Admission Requirements

1. The applicant must have a Bachelor of Fine Arts degree or comparable degree (e.g., BA with at least 60 hours of art) from a college or university accredited by the regional accrediting association for the region in which the institution is located, and a minimum GPA of 3.0 in his or her undergraduate art studies.

2. The applicant must submit a portfolio of 15 to 20 slides of recent works in the major area of concentration to the program director.

Applicants must attach or request the following through their online application:

3. At least three letters of recommendation must be submitted by individuals who are qualified to judge the applicant's artistic and professional potential. The applicant will add the recommenders to the recommendation section of the online application and they will be instructed on how to submit their recommendation online. Recommenders may also submit letters directly to the MFA Program.

4. The applicant must submit a statement of purpose describing his or her artistic direction and subsequent professional goal(s).

Applicants will be considered for the specific studio concentration for which they apply.

Up to six hours of graduate work may be transferred from other accredited institutions, provided such courses are acceptable by the department and have been taken within the required time period, seven years to graduation.

Graduate Assistants

Graduate assistantships are available to exceptional applicants. Students who are interested in applying for an assistantship should contact the graduate coordinator. Assistantships are awarded in the spring for the following academic year.

MFA Degree Requirements

The MFA in art with a concentration in studio art requires the completion of a total of 60 semester hours of coursework that includes 33 hours of studio courses 24-

hours must be taken in the student's area of concentration and nine hours will be taken in a minor studio area. The student must take 12 hours of art history courses and a three-hour seminar, ART 6383 The Art Profession. The final semester includes ART 7300 Graduate Exhibition and ART 7301 Graduate Paper. Six hours of free electives, which must be approved by the graduate coordinator, are allowed.

All students must be reviewed by their graduate committee at the completion of 30 semester hours. The review focuses on their studio work and will determine their eligibility for the status of candidacy for the MFA.

Graduate Catalog

Students who received a previous master's degree from UT Pan American or other accredited institution may earn an MFA from UTPA. Such students must:

1. Complete an additional minimum of 30 hours of credit in UT Pan American courses.

2. Complete all requirements for the MFA degree as set forth in the catalog.

3. Complete a thesis for the MFA exhibition; the thesis will serve in place of the paper, which is required for the degree.

4. Adhere to the admission standards for graduate study.

Course Descriptions

A listing of graduate courses offered by the Department of Art can be found on Page 170.

COMMUNICATION

Dr. Timothy Mottet, *Department Chair*
 Communication Arts and Sciences Building, Room 165
 1201 W. University Drive
 Edinburg, TX 78539-2999
 Telephone: 956/381-3583
 Fax: 956/381-2685
 E-mail: mottettp@utpa.edu

Jeffrey S. McQuillen,
Communication Graduate Coordinator
 Communication Arts and Sciences Building, Room 153
 Telephone: 956/381-2376
 E-mail: mcquillen@utpa.edu

Eric Wiley,
Theatre Graduate Coordinator
 Communication Arts and Sciences Building, Room 158
 Telephone: 956/381-3585
 E-mail: Wileye@utpa.edu

Graduate Faculty

Agbese, Aje-Ori, *Assistant Professor, Journalism*
 Carren, David, *Associate Professor, Theatre/TV/Film*
 Chang, Yanrong, *Assistant Professor, Communication Studies*
 Ghanem, Salma, *Associate Professor, Journalism*
 Grabowski, Thomas, *Associate Professor, Theatre/TV/Film*
 Guerra, Petra, *Assistant Professor, Journalism*
 Hawks, Stephanie, *Assistant Professor, Theatre/TV/Film*
 Lemanski, Jennifer, *Assistant Professor, Journalism*
 McQuillen, Jeffrey S., *Associate Professor, Communication Studies*
 Monta, Marian F., *Professor Emeritus, Program Coordinator, Theatre/TV/Film*
 Mottet, Timothy, *Professor, Communication Studies*
 Saavedra, Dora, *Associate Professor, Communication Studies*
 Selber, Gregory, *Assistant Professor, Journalism*
 Selber, Kimberly, *Assistant Professor, Journalism*
 Stanley, Jack, *Professor, Journalism, Theatre/TV/Film*
 Wiley, Eric, *Associate Professor, Theatre/TV/Film*

Master of Arts in Communication

Purpose

This program is designed for those who are interested in pursuing advanced studies in communication as a means of enhancing their professional and academic careers. Specifically, the objectives of this master's degree are to:

1. Provide advanced instruction for communication career training.
2. Provide instruction for teachers and educational administrators to upgrade their pedagogical and administrative skills.
3. Prepare students for advanced graduate study in communication leading to the terminal Doctor of Philosophy degree.

Scope

The Master of Arts degree in communication is a broad-based and individualized degree program that addresses all of the essential dimensions and components of communication studies, including organizational, interpersonal, intercultural, journalism, public relations, mass media and communication theory. The student will acquire a grounding in communication research, both theoretical and applied. Substantial flexibility exists for the student in communication to design a course and research program

that fits his or her unique and specialized professional and educational goals.

Admission to the Master of Arts in Communication

In order to be admitted to the Master of Arts in Communication, the student must first meet all requirements for admission to the Graduate School of UT Pan American (see Page 17), as well as the other requirements listed below. Application for admission must be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

All students applying for admission to the Master of Arts in communication are required to attach or request the following through their online application:

1. Three letters of recommendation. The applicant will add the recommenders to the recommendation section of the online application and they will be instructed on how to submit their recommendation online.
2. GRE scores.
3. A writing sample.

◆ 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, 3.0 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 the student must have 24 hours of undergraduate coursework in communication, including 18 hours of upper-division coursework.

All individuals desiring admittance to the graduate program in communication should follow the admission procedures for entering the graduate program in communication outlined in the Graduate Student Handbook, and abide by stated deadlines. A Graduate Student Packet is available from:

Communication Graduate Adviser
 The University of Texas-Pan American
 Communication Department
 1201 W. University Drive
 Edinburg, TX 78539-2999
 Phone: 956/381-3583
 Fax: 956/381-2685

Degree Requirements

Core Requirements	12 hours
COMM 6300	Communication Research
COMM 6320	Communication Theory
COMM 6322	Culture and Communication
COMM 6328	Applied Research

Designated Electives	12 hours
All candidates select 12 hours of designated approved electives from coursework in communication.	
Free Electives	6 hours
Students will take course electives in the fields of communication, psychology, history, political science, English, sociology and business. Coursework must be approved by the graduate adviser.	
Other Requirements	6 hours
Thesis or	6 hours
Free or Designated Electives	6 hours
TOTAL	36 hours

◆ **Comprehensive Written Examination**
 Non-thesis candidates for the Master of Arts in communication will be required to pass a comprehensive written and oral examination encompassing the information and materials in communication and related coursework.

Master of Arts in Theatre

Purpose

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. To prepare students to teach theatre and theatre arts in the state of Texas and elsewhere.
2. To enable teachers currently employed to upgrade their skills, certifications and endorsements through graduate work.
3. To develop a program that will meet Texas Educational Theatre Association (TETA) and National Association of Schools of Theatre (NAST) standards.
4. To continue studies leading to the Doctor of Philosophy degree.

Scope

The Master of Arts in theatre is a broad-based program designed to provide the student with 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 in Theatre

All students who wish to enroll in this graduate program must first meet all requirements for admission to the Graduate School of UT Pan American (see Page 17), as well as the other requirements listed below. Application

for admission must be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

In addition, the director of the graduate program in the Department of Communication must be supplied with the following:

1. Applicable catalog(s) for evaluation of transcript(s) if not from UTPA.

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, have a 2.75 grade point average in upper-division work in theatre courses and have a 3.0 in graduate courses (if applicable). 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 student's undergraduate training is inadequate).

Degree Requirements

Students may select 36 hours from among the following, of which the three hours indicated are required. Only six hours of 5000-level courses will be applied to the degree.

Required Courses	3 hours
COMM 6345 Theatre Research	
Designated Electives	21 hours
COMM 5304 Scriptwriting	
COMM 5615 Summer Theatre Workshop	
COMM 5616 Summer Film and Television Workshop (TH)	
COMM 6340 Special Topics in Dramatic Literature*	
COMM 6341 Special Topics in Theatre History*	
COMM 6342 Master Class in Theatrical Performance or Production*	
COMM 6343 Performance Theory*	
COMM 6357 Screenwriting Workshop*	
COMM 6358 Playwriting Workshop	

*May be repeated for credit as topics vary.

Free Electives 6 hours
 Select six hours of work outside the field to meet individual needs and interests with the approval of the graduate adviser.

Other Requirements 6 hours
 A six-hour thesis is not required but strongly advised for students anticipating further graduate study. Students not selecting the thesis option may take six hours from designated or free electives approved by the student's graduate adviser.

TOTAL 36 hours

◆ Comprehensive Examinations

All candidates for the Master of Arts 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 hours, but prior to completion of 36 hours, of graduate work toward a degree.

◆ Supporting Fields

Some existing programs and support areas at UT Pan American that would complement this program are as follows:

1. Graduate courses in English literature, especially those relating to dramatic literature.
2. Graduate courses in communication.
3. Graduate courses in art or music, if they are courses relevant to the theatre student.

These courses could be used to complete the requirement that six hours of the master's program in theatre be taken outside the student's major area of study. For teachers seeking certification, the six hours could be taken in their second teaching field. Theatre teachers most frequently have English or communication as the second teaching field. The six-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

A listing of graduate courses offered by the Department of Communication can be found beginning on Page 179.

ENGLISH

Dr. Pamela Anderson-Mejias, *Interim Department Chair*

Communication Arts and Sciences Building, Room 210
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: 956/381-3421
Fax: 956/381-3423
E-mail: pla66f5@utpa.edu

Dr. Gary Schneider,
Graduate Director and Adviser
Communication Arts and Sciences Building,
Room 273
Telephone: 956/318-5271
E-mail: garysch@utpa.edu

Graduate Faculty
Affeldt, Robert, *Assistant Professor*
Anderson-Mejias, Pamela, *Associate Professor*

Anshen, David, *Assistant Professor*
Belau, Linda, *Associate Professor*
Braithwaite, Jean, *Assistant Professor*
Brown, Danika, *Assistant Professor*
Cameron, Ed, *Assistant Professor*
Charlton, Colin, *Assistant Professor*
Charlton, Jonikka, *Assistant Professor*
Christensen, Matt, *Assistant Professor*
Cole, Deborah, *Assistant Professor*
Daniel, Clay L., *Associate Professor*
Hamilton, Lee, *Associate Professor*
Haule, James M., *Professor*
Johnson, Robert, *Associate Professor*
Keller, Christopher, *Assistant Professor*
Lang, Yong, *Assistant Professor*
LaPrade, Douglas E., *Associate Professor*
Miles, Caroline S., *Assistant Professor*
Mitchell, Rebecca, *Assistant Professor*
Newman, Beatrice, *Professor*
Newman, Donald, *Associate Professor*
Noe, Mark, *Assistant Professor*
Nuss, Melynda, *Assistant Professor*
Perez, Emmy, *Assistant Professor*
Reed, Michael D., *Professor*
Schneider, Gary, *Assistant Professor*
Schneider, Steven P., *Professor*
Skinner, Jose, *Assistant Professor*
Thomson, Shawn, *Assistant Professor*
Williamson, Eric, *Associate Professor*

The Department of English Graduate Program

The Department of English offers courses leading to a Master of Arts in English (MA), a Master of Arts in English as a Second Language (MAESL), a Master of Arts in Interdisciplinary Studies (MAIS) and a Master of Fine Arts (MFA).

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 these 36 semester hours, a student may include a maximum of six 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, 24 hours at this institution, and must be within the seven-year period.

Admission to Graduate Programs in English

In order to be admitted to the MA in English program or to the MA in ESL program, students must first meet all requirements for admission to the Graduate School of UT Pan American (see Page 17), as well as the other requirements listed below. Application for admission must

be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

All students applying for admission to either program are required to attach or request the following through their online application:

- TOEFL scores (for foreign students), official transcripts, a letter explaining career goals and reasons for seeking graduate studies in English or English as a Second Language.

In addition, all students applying for admission to either program are required to provide the graduate adviser in the Department of English with the following:

- Applicable catalog(s) for evaluation of transcript(s), if not from UTPA (The department needs transcripts translated officially from all international institutions that do not use English).

After being admitted to the MA program, students must consult with the graduate adviser of the program they wish to pursue in order to formulate and sign a degree plan. This certifies that the student is enrolling in courses appropriate to that program. The advisers for the MA programs offered by the Department of English are:

- Gary Schneider
MA in Literature and Cultural Studies
MA in Rhetoric, Composition and Literacy Studies
MAIS
- Pamela Anderson-Mejias
MAESL
- Jean Braithwaite
MFA in Creative Writing

◆ **Student Classification and Admission Criteria for Graduate Study in English**

Students who satisfy the undergraduate admission criteria may be admitted to graduate study in English on either an unconditional or a conditional basis.

◆ **Unconditional Admission for MA in English**

Students may be admitted to graduate study in the Department of English on an unconditional basis if they meet one of the following criteria:

- Have completed 33 semester hours of undergraduate coursework in English, 24 advanced, with a minimum GPA of 3.0.
- Have completed at least 21 semester hours of undergraduate coursework in English, 12 advanced, with a GPA of 3.25. Foreign students whose native language is not English must score 550 or above on the TOEFL.

There is no undergraduate major required for the MA in ESL. Foreign students whose native language is not English must score 550 or above on the TOEFL.

◆ **Conditional Admission**

Students who do not satisfy unconditional admission criteria but who have been granted admission to graduate

study by the Office of Graduate Studies may be considered for conditional admission status in English graduate programs on the recommendation of the Department of English graduate adviser and the department chair after a review of their application materials. Conditional admission status must be removed at the end of the semester in which students are initially enrolled by earning at least a 3.0 graduate GPA in six hours of graduate coursework at the University.

◆ **Denied Admission**

Students who fail to meet the requirements for unconditional admission or conditional admission are denied admission to graduate study in the Department of English. Denied admission status may be changed by improving test scores or undergraduate grade point average or through appeal to the Department of English graduate director.

◆ **Progression Through the Degree**

Students seeking any graduate degree in English must maintain a cumulative GPA of at least 3.0 in the graduate hours taken in the department of English of UT Pan American. If a student's GPA falls below 3.0 in a given semester, the student will be placed on probation. If an overall 3.0 GPA is not recuperated during the following semester, the student will be placed on suspension. For more information, see Page 44 of this catalog.

The Master of Arts degree with a Major in English

The Department of English offers MA degrees in English with tracks in Literature and Cultural Studies and Rhetoric, Composition and Literacy Studies. Each of these tracks has a thesis and non-thesis option. The details of each track follow:

The Master of Arts in Literature and Cultural Studies: Thesis Option

Requirements

Thirty semester hours, including a thesis, are required as follows:

A. Twenty-one semester hours selected from the following five areas:

AREA I:	Period or Location Courses (Six Credits)
ENG 6360	Studies in British Literature
ENG 6370	Studies in American Literature
ENG 6365	Topics in Literary History

AREA II:	Genre or Single Author Courses (Three Credits)
ENG 6310	Studies in Genre
ENG 6362	Studies in Single Author

AREA III:	Theory (Three Credits)
ENG 6347	Studies in Literary Theory

AREA IV: Topics in Gender, Ethnic and Cultural Studies
(Six Credits)

ENG 6316	Studies in Mexican-American Literature
ENG 6385	Topics in Cultural Studies
ENG 6318	Studies in Ethnic Literature
ENG 6319	Studies in Gender and Literature

AREA V: Topics in Transnational Literature (Three Credits)

ENG 6380	Studies in Comparative Literature
ENG 6383	Topics in Post-Colonial Studies

B. Thesis (Six Credits)

ENG 7300	Thesis
ENG 7301	Thesis

C. Departmental Electives (Three Credits)

These electives may be taken inside the MA literature track or in any other track in the Department of English. Electives taken outside the Department of English must be approved by the graduate program director.

D. Exams (0 Credits)

All students pursuing an MA in English with the thesis option will complete an oral presentation at the close of the first semester of their thesis project (ENG 7300) and will complete an oral defense of the thesis upon completion of the second semester of the thesis project sequence (ENG 7301).

The Master of Arts in Literature and Cultural Studies: Non-Thesis Option

Requirements

Thirty-six credit hours in addition to a comprehensive exam are required, as follows:

A. Twenty-one semester hours selected from the following five areas:

AREA I: Period or Location Courses (Six Credits)

ENG 6360	Studies in British Literature
ENG 6370	Studies in American Literature
ENG 6365	Topics in Literary History

AREA II: Genre or Single Author Courses (Three Credits)

ENG 6310	Studies in Genre
ENG 6362	Studies in Single Author

AREA III: Theory (Three Credits)

ENG 6347	Studies in Literary Theory
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AREA IV: Topics in Gender, Ethnic and Cultural Studies
(Six Credits)

ENG 6316	Studies in Mexican-American Literature
ENG 6385	Topics in Cultural Studies
ENG 6318	Studies in Ethnic Literature
ENG 6319	Studies in Gender and Literature

AREA V: Topics in Transnational Literature (Three Credits)

ENG 6380	Studies in Comparative Literature
ENG 6383	Topics in Postcolonial Studies

B. Departmental Electives (Three Credits)

These electives may be taken inside the MA literature track or in any other track in the Department of English. Electives taken outside the Department of English must be approved by the graduate program director.

C. Literature Electives (12 Credits)

These electives must be taken within the English MA literature track.

D. Exams (0 Credits)

All students pursuing an MA in English with the non-thesis option must pass a comprehensive examination. Candidates are allowed to take this exam up to three times during work on the MA.

The Master of Arts in Rhetoric, Composition and Literacy Studies: Thesis Option

Thirty-three hours of graduate-level coursework, including six hours of Thesis. An oral defense of the thesis prospectus and an oral defense of the thesis is required.

Core Requirements

All students in the MA program will be required to take at least one course (three credits) in each of the following four areas for a total of 12 credit hours toward the MA:

- Introduction to graduate studies in rhetoric, composition and literacy
- History of rhetoric, composition or literacy studies
- Theory in rhetoric, composition or literacy studies
- Pedagogy in rhetoric, composition or literacy studies

All core courses will focus at least in part on issues of multicultural discourses and literacies.

Areas of emphasis in graduate studies in rhetoric, composition and literacy studies include teaching (public school and community college), professional writing, and discourse and literacy studies.

◆ Emphasis on Teaching

Students who plan to pursue or continue teaching in K-12 public schools or at the community college level can focus the remainder of their coursework in the following areas:

- With an advisers approval, a student may choose to substitute three credits of writing and three credits of literature for six credits of thesis hours.
- Six credits of applied writing courses (professional writing, academic discourse, creative writing, proposal writing, technical writing, writing for the Web).
- Six credits of courses in the area of pedagogy and/or research methods (at least three of these credits should

be specifically in the area of cultural rhetorics such as comparative rhetoric, latino/a rhetoric or pedagogy, border studies, etc).

- Three credits of elective English courses.
- Six hours thesis.

◆ Emphasis in Professional Writing

Students who plan to enter professions that require expertise in writing strategies will want to distribute their coursework past the core to the following areas:

- Nine credits of applied writing.
- Three credits in research methods or an approved internship.
- Three credits of elective work in graduate-level study in English or a related discipline.
- Six credits of thesis.

◆ Emphasis in Discourse and Literacy Studies

Students who intend to pursue graduate study past the MA program or are interested in applying their studies in terms of academic discourse and theoretical approaches to questions of literacy can focus the remainder of their coursework beyond the core as follows:

- Three credits of history.
- Three credits of theory (rhetorical or literary).
- Three credits of pedagogy.
- Three credits of elective English courses.
- Three credits of Writing Academic Discourse.
- Six credits of thesis.

The Master of Arts in Rhetoric, Composition and Literacy Studies:

Non-Thesis Option

Thirty-six hours of graduate-level coursework are required as well as a comprehensive exam.

Core Requirements

All students in the MA program will be required to take at least one course (three credits) in each of the following four areas for a total of 12 credit hours toward the MA:

- Introduction to graduate studies in rhetoric, composition and literacy.
- History of rhetoric, composition or literacy studies.
- Theory in rhetoric, composition or literacy studies.
- Pedagogy in rhetoric, composition or literacy studies.

All core courses will focus at least in part on issues of multicultural discourses and literacies.

Areas of emphasis in graduate studies in rhetoric, composition and literacy studies include: teaching (public school and community college), professional writing discourse and literacy studies.

◆ Emphasis on Teaching

Students who plan to pursue or continue teaching in K-12 public schools or at the community college level can focus the remainder of their coursework in the following areas:

- Nine credits of applied writing courses (professional writing, academic discourse, creative writing, proposal writing, technical writing, writing for the Web).
- Six credits of courses in the area of pedagogy and/or research methods (at least three of these credits should be specifically in the area of cultural rhetorics such as comparative rhetoric, latino/a rhetoric or pedagogy, border studies, etc).
- Three credits of linguistics.
- Three credits of literature.
- Three credits of elective English courses.

◆ Emphasis in Professional Writing

Students who plan to enter professions that require expertise in writing strategies will want to distribute their coursework past the core to the following areas:

- Twelve credits of applied writing.
- Three credits in research methods or an approved internship.
- Three credits in linguistics.
- Three credits in literature.
- Three credits of elective work in graduate-level study in English related discipline.

◆ Emphasis in Discourse and Literacy Studies

Students who intend to pursue graduate study past the MA program or are interested in applying their studies in terms of academic discourse and theoretical approaches to questions of literacy can focus the remainder of their coursework beyond the core as follows:

- Three credits of history.
- Three credits of theory (rhetorical or literary).
- Six credits of pedagogy.
- Three credits of linguistics.
- Three credits of Writing Academic Discourse.
- Three credits of elective English courses.
- Three credits elective (may be taken in English or any other discipline).

Departmental Requirements for a Master of Arts in English as a Second Language

In addition to the general requirements stated elsewhere in this catalog, each student must pass two (three-hour) written comprehensive examinations. One is in theoretical linguistics, the other in applied linguistics. The candidate is allowed to take these exams up to three times during work on the MA degree.

Some courses are offered on a rotating basis. Students should consult the graduate adviser early in their MA programs.

Major in English as a Second Language: Thesis Option

◆ Major Requirements

Thirty-six hours including a thesis, with the option of taking a total of up to six hours in one or more other fields.

Requirements		30 hours
ENG 6302	Modern English Syntax	
ENG 6321	Studies in Language and Culture	
ENG 6328	Introduction to English as a Second Language	
ENG 6329	Problems in English as a Second Language	
ENG 6350	Introduction to Descriptive Linguistics for Teachers	
ENG 6351	Problems in Linguistics (when topic is research design)	
ENG 6352	Practicum in English as a Second Language	
ENG 6353	English as a Second Language Testing	
ENG 7300	Thesis	
ENG 7301	Thesis	

Electives may be any graduate course deemed appropriate in consultation with the graduate adviser. Appropriate elective courses in English include, but are not limited to the following:

Electives		6 hours
ENG 6325	Studies in Composition Techniques	
ENG 6329	Problems in English as a Second Language with a second topic	
ENG 6345	Problems in Grammar, Dialects and Language Performance	
ENG 6351	Problems in Linguistics with a second topic	

Or others after consultation and the approval of the graduate adviser.

TOTAL 36 hours

Major in English as a Second Language: Non-Thesis Option

◆ Major Requirements

Thirty-six semester hours with the option of taking a total of up to nine hours in one or more other fields.

Required Courses		21 hours
ENG 6302	Modern English Syntax	
ENG 6321	Studies in Language and Culture	
ENG 6328	Introduction to English as a Second Language	
ENG 6329	Problems in English as a Second Language	
ENG 6350	Introduction to Descriptive Linguistics for Teachers	
ENG 6352	Practicum in English as a Second Language	
ENG 6353	English as a Second Language Testing	

Designated Electives		6 hours
Select at least six semester hours from the following courses:		
ENG 6325	Studies in Composition Techniques	
ENG 6329	Problems in English as a Second Language with a second topic	
ENG 6345	Problems in Grammar, Dialects and Language Performance	
ENG 6351	Problems in Linguistics (any topic)	

Electives 9 hours
 Nine additional graduate hours, chosen in consultation with the graduate adviser.

TOTAL 36 hours

The Master of Arts Degree in Interdisciplinary Studies (MAIS)

The Department of English offers an MA track in interdisciplinary studies. Within this track you may choose a focus on literature or a focus on writing. Each has a thesis or non-thesis option. The details of each track follow.

The Master of Arts in Interdisciplinary Studies, Literature Focus: Thesis Option

Requirements
 Thirty-three credit hours including a thesis are required. Eighteen semester hours in English (including thesis) and 15 semester hours in other fields are chosen in consultation with the graduate adviser.

A. Twelve semester hours in the English department selected from the following:

ENG 6310	Studies in Genre
ENG 6316	Studies in Mexican-American Literature
ENG 6318	Studies in Ethnic Literature
ENG 6319	Studies in Gender and Literature
ENG 6347	Studies in Literary Theory
ENG 6360	Studies in British Literature
ENG 6362	Studies in Single Author
ENG 6365	Topics in Literary History
ENG 6370	Studies in American Literature
ENG 6380	Studies in Comparative Literature
ENG 6383	Topics in Postcolonial Studies
ENG 6385	Topics in Cultural Studies
ENG 6390	Studies in Special Topics

B. Thesis (Six Credits)
 ENG 7300 Thesis
 ENG 7301 Thesis

C. Exams (0 Credits)
 All students pursuing an MA in English with the thesis

option will complete an oral presentation at the close of the first semester of their thesis project (ENG 7300) and will complete an oral defense of the thesis upon completion of the second semester of the thesis project sequence (ENG 7301) in place of the comprehensive exam.

The Master of Arts in Interdisciplinary Studies, Literature Focus: Non-Thesis Option

Requirements

Thirty-six credit hours in addition to the English department’s comprehensive exam are required. Eighteen semester hours in English and 18 semester hours in other fields are chosen in consultation with the graduate adviser.

A. Eighteen semester hours in the English department selected from the following:

- ENG 6310 Studies in Genre
- ENG 6316 Studies in Mexican-American Literature
- ENG 6318 Studies in Ethnic Literature
- ENG 6319 Studies in Gender and Literature
- ENG 6347 Studies in Literary Theory
- ENG 6360 Studies in British Literature
- ENG 6362 Studies in Single Author
- ENG 6365 Topics in Literary History
- ENG 6370 Studies in American Literature
- ENG 6380 Studies in Comparative Literature
- ENG 6383 Topics in Postcolonial Studies
- ENG 6385 Topics in Cultural Studies
- ENG 6390 Studies in Special Topics

B. Exam (0 Credits)

All students pursuing an MA in English with the non-thesis option must pass a comprehensive examination. Candidates are allowed to take this exam up to three times during work on the MA.

Master of Arts Degree in Interdisciplinary Studies with a Concentration in English: Writing Focus

The choice of courses in the concentration and other fields will be determined through consultation between the student and the departmental graduate adviser. A course of study will be designed by the student, the graduate adviser and the student’s graduate faculty mentor to include courses that meet individual needs. This focus is available for students working in education, sciences, business, arts and humanities, engineering, and other fields who wish to pursue graduate study in writing to augment studies in other professional areas.

Some of the Department of English courses from which students can choose include the following:

- ENG 6320 Introduction to Graduate Study in Rhetoric, Composition and Literacy

- ENG 6322 Theory in Rhetoric, Composition and Literacy
- ENG 6323 History in Rhetoric, Composition and Literacy
- ENG 6324 Pedagogy in Rhetoric, Composition and Literacy
- ENG 6325 Studies in Composition Techniques
- ENG 6326 Professional Writing
- ENG 6327 Writing Academic Discourse

In addition, courses from disciplines other than English will be included in the student’s degree plan with the consent of the graduate adviser. These include courses from the College of Arts and Humanities, the College of Business Administration, the College of Education, the College of Health Sciences and Human Services, the College of Science and Engineering and the College of Social and Behavioral Sciences.

The Master of Arts in Interdisciplinary Studies, Writing Focus: Thesis Option

Requirements

Thirty-three credit hours including six hours of thesis (ENG 7300, ENG 7301) are required; an oral defense of the thesis prospectus and an oral defense of the thesis is required. Eighteen semester hours in English (including thesis) and 15 semester hours in other fields are chosen in consultation with the graduate adviser.

The Master of Arts in Interdisciplinary Studies, Writing Focus: Non-Thesis Option

Requirements

Thirty-six credit hours in addition to the English department’s comprehensive exam are required. Eighteen semester hours in English and 18 semester hours in other fields are chosen in consultation with the graduate adviser.

Required Comprehensive Exam (0 Credits)

All students pursuing an MA in English with the non-thesis option must pass a comprehensive examination. Candidates are allowed to take this exam up to three times during the work on the MA.

The Master of Fine Arts Degree in English/ Creative Writing

Admission to the Master of Fine Arts in English/ Creative Writing

In order to be admitted to the Master of Fine Arts program, the student must first meet all requirements for admission to graduate study at The University of Texas-Pan American. In addition, all MFA applicants must apply

separately to the English department, providing a writing sample, letters of recommendation, a letter of application and unofficial copies of transcripts. Detailed instructions and all necessary forms can be downloaded from the English department Web site. Note that MFA applicants need not have been English majors as undergraduates.

Departmental Requirements for a Master of Fine Arts in English/Creative Writing

In addition to the University core curriculum requirements stated elsewhere in this catalog, the following specific requirements must be met:

1. The choice of courses to satisfy the requirements will be determined in consultation between the student and a designated adviser in the genre concentration chosen by the student (fiction, poetry, creative nonfiction or literary translation).

2. Each student must complete a creative thesis consisting of a significant body of creative work in addition to a critical introduction which places that work in the context of a literary tradition. The thesis will be formally defended before the student's thesis committee.

◆ Major Requirements

Forty-two semester hours are required, including six thesis hours.

Required Courses 3 hours
ENG 6325 Studies in Composition Techniques

Workshop 12 hours
For workshop hours, students may choose from the following:

ENG 6336 Workshop in Fiction
ENG 6337 Workshop in Creative Nonfiction
ENG 6338 Workshop in Poetry
ENG 6339 Workshop in Literary Translation
ENG 6357 Screenwriting Workshop
ENG 6358 Playwriting Workshop

At least three hours of workshop must be in a different genre from the students chosen concentration.

Form and Theory Seminars 6 hours
For form and theory seminars, students can choose from the following:

ENG 6386 Form and Theory of Fiction
ENG 6387 Form and Theory of Creative Nonfiction
ENG 6388 Form and Theory of Poetry
ENG 6389 Form and Theory of the Novel

Literature Seminars 9 hours
Suitable courses should be chosen from among these and other options in consultation with the student's adviser:

ENG 6316 Mexican-American Literature
ENG 6347 Problems in Literary Criticism
ENG 6360 Studies in English Literature
ENG 6370 Studies in American Literature

ENG 6390 South Texas Writers or other Studies in Special Topics
SPAN 6339 Studies in Spanish-American Literature
SPAN 6341 Studies in Spanish Literature
SPAN 6345 Latino/a Literature

Electives 6 hours
Six additional hours should be chosen in consultation with an advisor.

Thesis 6 hours

Course Descriptions

A listing of graduate courses offered by the Department of English can be found beginning on Page 196.

HISTORY AND PHILOSOPHY

Dr. Michael Faubion, *Department Chair*
Communications Arts and Sciences, Room 342C
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: 956/381-3561
Fax: 956/384-5096
E-mail: MFC83B@utpa.edu

Graduate Faculty

Adair, Penelope A., *Associate Professor*
Birk, Megan, *Assistant Professor*
Campney, Brent, *Assistant Professor*
English, Linda, *Assistant Professor*
Hay, Amy, *Assistant Professor*
Hernandez, Sonia, *Assistant Professor*
Knight, Dan, *Assistant Professor*
Mata, Jennifer, *Assistant Professor*
McWilliams Jones, Cynthia, *Assistant Professor*
Pastrano, Jose G, *Assistant Professor*
Pearson, Thomas, *Associate Professor*
Waite, Charles, *Assistant Professor*
Weaver, Michael K., *Associate Professor*
Wirts, Kristine, *Associate Professor*

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 and should consult with the graduate advisor in selecting coursework. The department's Graduate Studies Faculty Committee has developed a Policies and Procedures Handbook for graduate students that has additional information about the graduate programs in history.

Master of Arts Degree in History

Departmental Requirements

In addition to the general requirements for graduate admission set out on Page 17 of this catalog, the requirements listed below must be met. Application for admission must be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

- Applicants for admission must have completed, or must complete as leveling work, 18 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 Department of History graduate adviser.
- Other departmental requirements are listed in the Policies and Procedures Handbook.

Degree Requirements

Two options are available to graduate students under the program. Option I requires 24 hours of directed coursework and six hours of thesis preparation. Option II requires 36 hours of directed coursework and two comprehensive examinations. Students will select from either Option I or Option II.

◆ Option I: Thesis

Students enrolled in Option I will be required to take 18 hours of history coursework, including HIST 6300, six hours of non-history coursework in a single discipline (anthropology, sociology, computer science, etc.), and six hours of thesis preparation. The thesis will be evaluated using current departmental guidelines.

◆ Option II: Non-Thesis

Students enrolled in Option II will be required to take 30 hours of 5000/6000-level history coursework, including HIST 6300, and six hours of non-history coursework 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.

Related Academic Areas

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 a related academic area with the graduate adviser.

Master of Arts Degree in Interdisciplinary Studies

Degree Requirements

Before admission to candidacy by the Department of History, applicants must have completed, or must complete as leveling work, 18 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 nine hours of such leveling work while taking a limited number of graduate hours. Graduate history majors are required to consult with the departmental graduate advisor 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: Thirty 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: Thirty-six 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.

MAIS Degree Requirements

Concentration in History: Thesis Option

Major Requirements

Eighteen hours of graduate-level coursework in history with no more than half at the 5000-level, including six hours of thesis, and 12 hours in two or more related areas. HIST 6300 is required of all students.

Required Courses

HIST	6300	Historiography and Historical Method
HIST	7300	Thesis
HIST	7301	Thesis

TOTAL 30 hours

◆ Concentration in History: Non-Thesis Option

Major Requirements

Eighteen hours in 5000- and 6000-level history classes without thesis with no more than half at the 5000-level and 18 hours in two or more related areas, with not more than 12 hours from education and business.

Required Course

HIST 6300 Historiography and Historical Method

TOTAL 36 hours

Course Descriptions

A listing of graduate courses offered by the Department of History and Philosophy can be found beginning on Page 208.

MODERN LANGUAGES AND LITERATURE

Dr. Glenn A. Martinez, *Department Chair*
Communication Arts and Sciences Building, Room 329
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: 956/381-3441
Fax: 956/318-5381
E-mail: martinezg@utpa.edu

Dr. Guadalupe Cortina,
Graduate Adviser
Communication Arts and Sciences Building,
Room 316
Telephone: 956/381-3445
E-mail: gcortina@utpa.edu

Graduate Faculty
Alvarez Martinez, Stephanie, *Lecturer, Spanish, Literature*
Ardalani, Elvia G., *Assistant Professor,
Spanish, Literature and Creative Writing*
Behar, Stella, *Associate Professor, French, Literature*
Calarge, Carla, *Assistant Professor, French, Literature*
Contreras, Victoria, *Professor, Spanish,
Foreign Language Teaching*
Cortina, Guadalupe M., *Associate Professor,
Spanish, Literature*
Diaz de Sharp, Monica, *Assistant Professor,
Spanish, Literature*
Hernandez, Jose E., *Assistant Professor,
Spanish, Linguistics*
Martin-Ochoa, Luz Maria, *Assistant Professor,*

Spanish, Literature and Creative Writing
Martinez, Glenn A., *Associate Professor,
Spanish, Linguistics*
Martinez, Jose M., *Associate Professor,
Spanish, Literature*

Mejias, Hugo, *Associate Professor, Spanish, Linguistics*
Rea, Ramiro R., *Associate Professor, Spanish,
Literature and Creative Writing*
Romero, Hector, *Professor, Spanish, Literature*
Sharp, Ethan P., *Assistant Professor,
Latin American Studies*

Emeritus Professors
Dominguez, Sylvia, *Spanish*
Garcia, Lino, *Spanish*
Vassberg, Lilliane, *French*

Overview

The Department of Modern Languages and Literature offers the Master of Arts in Spanish with a concentration in literature or linguistics. Students may elect a thesis or non-thesis option.

Departmental Admission Requirements

In addition to the general admission requirements for graduate study, the following specific requirements must be met:

1. Applicants who wish to major in Spanish must have completed at least 12 hours of Spanish at the advanced undergraduate level.
2. Students who do not major in Spanish but wish to take graduate courses in the field 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. Majors will choose courses in Spanish and in related areas through consultation with their advisor.

Master of Arts in Spanish

Degree Requirements

Thirty-seven hours in Spanish.

Required Courses	10 hours
<i>Complete the following:</i>	
SPAN 6300	Research and Bibliography
SPAN 6301	Fundamentals of Spanish Linguistics
SPAN 6302	Literary Criticism and Cultural Theory
SPAN 7100	Directed Research in Language, Literature and Culture

Concentration 18 hours

Choose 18 hours from literature or linguistics:

Literature

- SPAN 6339 Special Studies in Spanish American Literature
- SPAN 6341 Special Studies in Spanish Literature
- SPAN 6345 Latina/o Literature in the United States

Linguistics

- SPAN 6307 Advanced Spanish Grammar and Composition for the Classroom Teacher
- SPAN 6313 History of the Spanish Language
- SPAN 6344 Problems and Issues Related to Language
- SPAN 6350 Special Studies in Spanish Linguistics

Designated Electives 3 hours

Choose three hours from literature if linguistics concentration is selected.

Choose three hours from linguistics if literature concentration is selected.

◆ Options 6 hours

Thesis Option

Complete the following:

- SPAN 7300 Thesis
- SPAN 7301 Thesis

Minor Option

Complete six hours from the same discipline outside of the department.

AP Option

Complete six hours from the following courses:

- SPAN 6351 AP Spanish Literature (Peninsular Poetry and Drama)
- SPAN 6352 AP Spanish Literature (Latin American Prose)
- SPAN 6353 AP Spanish Literature (Latin American Poetry and Drama)
- SPAN 6354 AP Spanish Literature (Peninsular Prose)

Comprehensive Examination

A general written comprehensive examination that will test the student's knowledge of Spanish, and is not necessarily based on courses taken, will be administered to all students at the end of their coursework. A reading list is available in the Department of Modern Languages and Literature office.

Course Descriptions

A listing of graduate courses offered by the Department of Modern Languages and Literature can be found beginning on Page 206 (FREN) and 249 (SPAN).

MUSIC

Dr. Pedro Martinez, *Department Chair*
 Communication Arts and Sciences Building,
 Room 334
 1201 W. University Drive
 Edinburg, TX 78539-2999
 Telephone: 956/381-2175
 Fax: 956/381-2177
 E-mail: martinezp@utpa.edu
 Web site: <http://www.coah.utpa.edu/>

Graduate Faculty

- Davis, Wendell R., *Associate Professor*
- Dabrowski, Peter, *Associate Professor*
- Guerra, Dahlia, *Associate Professor*
- Martinez, Kurt, *Assistant Professor*
- Martinez, Pedro, *Assistant Professor*
- Munn, Christopher, *Professor*
- Munn, Vivian, *Associate Professor*
- ONeil, Lorne W., *Associate Professor*
- Raimo, John, *Professor*
- Wayman-Davis, Virginia, *Assistant Professor*

Overview

The Department of Music offers the Master of Music degree in a 36-hour non-thesis program or a 30-hour thesis program; a Master of Arts in interdisciplinary studies degree with a concentration in music, a 36-hour non-thesis program, as well as the Bachelor of Arts in music and minors in applied music and teacher certification. The Master of Music Program is currently under revision. Check with the Department of Music for more information.

The department is housed in the Fine Arts Complex, which includes the 1,055-seat Fine Arts Auditorium, the 200-seat Recital Hall, two rehearsal halls, a class piano room and a computer-assisted theory classroom.

During the academic year, the Department of Music presents a series of performances by faculty members and guest artists, in addition to student recitals and performances of the Valley Symphony Orchestra.

Student performing groups include the University Band, University Choir, Jazz Ensemble, Salsa Band, Pep Band, Brass Ensemble, Mariachi, Guitar Ensemble, Percussion Ensemble, Opera/Musical Theatre, Mens Chorus, Women's Chorus, Woodwind Ensembles and String Ensemble.

For information about performance dates on campus, contact the Department of Music office at 956/381-3471.

Master of Music

Admissions Standards

In order to be admitted to the program, students must first meet all requirements for admission to the Graduate School of UT Pan American (see Page 17), as well as the other requirements listed below. Application for admission must be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

In addition, the following specific requirements must be met:

1. The applicant must have completed the requirements for a Bachelor of Music, Bachelor of Music Education, Bachelor of Arts, or Bachelor of Science degree. Applicants with a major in a subject other than music may be required to complete leveling undergraduate coursework.

2. The applicant must have a 3.0 cumulative GPA for clear admission to the program.

3. The applicant may transfer up to six hours of graduate work from other accredited institutions, provided such courses are acceptable by the department and have been taken within the required time period of seven years to graduation.

4. The applicant for the performance option must audition in person or provide a recent recording demonstrating the level of mastery in the proposed performance medium.

Degree Requirements

Students will select an area of concentration (ethnomusicology, pedagogy, or performance) and a faculty member in the declared area of specialization. The student and faculty member will determine the curriculum within the guidelines of the degree program.

Degree Options

Option I: A configuration in which the student pursues concentrated study in the area of ethnomusicology with an emphasis in Mexican-American Studies.

Option II: A configuration in which the student develops as a music educator (music pedagogy).

Option III: A configuration in which the student pursues and develops as a performer on his respective instrument.

◆ Ethnomusicology Option

(with an emphasis in Mexican-American Studies)

COURSE	SCH
MUS 6337 Foundations of Ethnomusicology	3
MUS 6338 Ethnographic and Analytical Method	3
MUS 6339 Ethnomusicological Seminars in Music and Culture	6
Seminars chosen from Anthropology*, Sociology**, or History***	3
Seminars chosen from specific topics in Mexican Folk Music+	6

	Elective in Music History, Theory, Pedagogy, or Applied Music	3
MUS 7300,		
7301 Thesis		6

TOTAL 30

* ANTH 6348	Peoples and Cultures of Mexico	
** SOC 6362	Mexican-American Society	
*** HIST 6316	Studies in Mexican and American Heritages	
+ MUS 6335	Graduate History of Mexican Folk Music	
MUS 6336	Border Music of South Texas	

◆ Pedagogy Option Without Thesis

General Education:

COURSE	SCH
MUS 6332 Music Theory/Written and Aural	6
MUS 6333 Music History and Literature	6
MUS 6334 Research Methods in Music	3

Core Courses:

Music Electives	6
MUS 6230 Applied Music	4
MUS 6240 Pedagogy of Major Instrument	2
MUS 6331 Pedagogy of Choice	9

TOTAL 36

◆ Pedagogy Option With Thesis

General Education:

COURSE	SCH
MUS 6332 Music Theory/Written and Aural	6
MUS 6333 Music History and Literature	6
MUS 6334 Research Methods in Music	3

Core Courses:

Music Electives	4
MUS 6240 Pedagogy of Major Instrument	2
MUS 6331 Pedagogy of Choice	9
MUS 7300,	
7301 Thesis	6

TOTAL 36

◆ Performance Option Without Thesis

General Education:

COURSE	SCH
MUS 6332 Music Theory/Written and Aural	6
MUS 6333 Music History and Literature	6
MUS 6334 Research Methods in Music	3

Core Courses:

Music Electives	6
MUS 6120 Chamber Music/Large Ensemble	4
MUS 6130 Recital	1
MUS 6230 Applied Music in Major Instrument	8
MUS 6240 Pedagogy of Major Instrument	2

TOTAL 36

◆ Performance Option With Thesis

General Education:

COURSE	SCH
MUS 6332 Music Theory/Written and Aural	6
MUS 6333 Music History and Literature	6
MUS 6334 Research Methods in Music	3
<i>Core Courses:</i>	
MUS 6120 Chamber Music/Large Ensemble	4
MUS 6130 Recital	1
MUS 6230 Applied Music in Major Instrument	8
MUS 6240 Pedagogy of Major Instrument	2
MUS 7300, 7301 Thesis	6
TOTAL	36

TOTAL 36 hours

Course Descriptions

A listing of graduate courses offered by the Department of Music can be found on Page 170.

Special Requirements of the Program

The performance option requires a minimum of a 60-minute public recital of music literature appropriate to the level of graduate study. An advisory committee must approve a pre-recital hearing (held 10 days prior to the recital), and the quality of expertise of the actual recital. The committee will decide what portion of the music will be performed from memory.

The thesis option will require a research study designed to produce new and original conclusions and knowledge. The student must prepare a formal proposal that must be approved by the thesis committee. Approval of the final paper by the thesis committee will be a requirement for graduation. The student must also successfully defend the thesis.

All students in the Master of Music Program must pass a general written and oral exam designed and administered by the student's advisory committee at the end of the degree program.

Master of Arts in Interdisciplinary Studies with a Concentration in Music

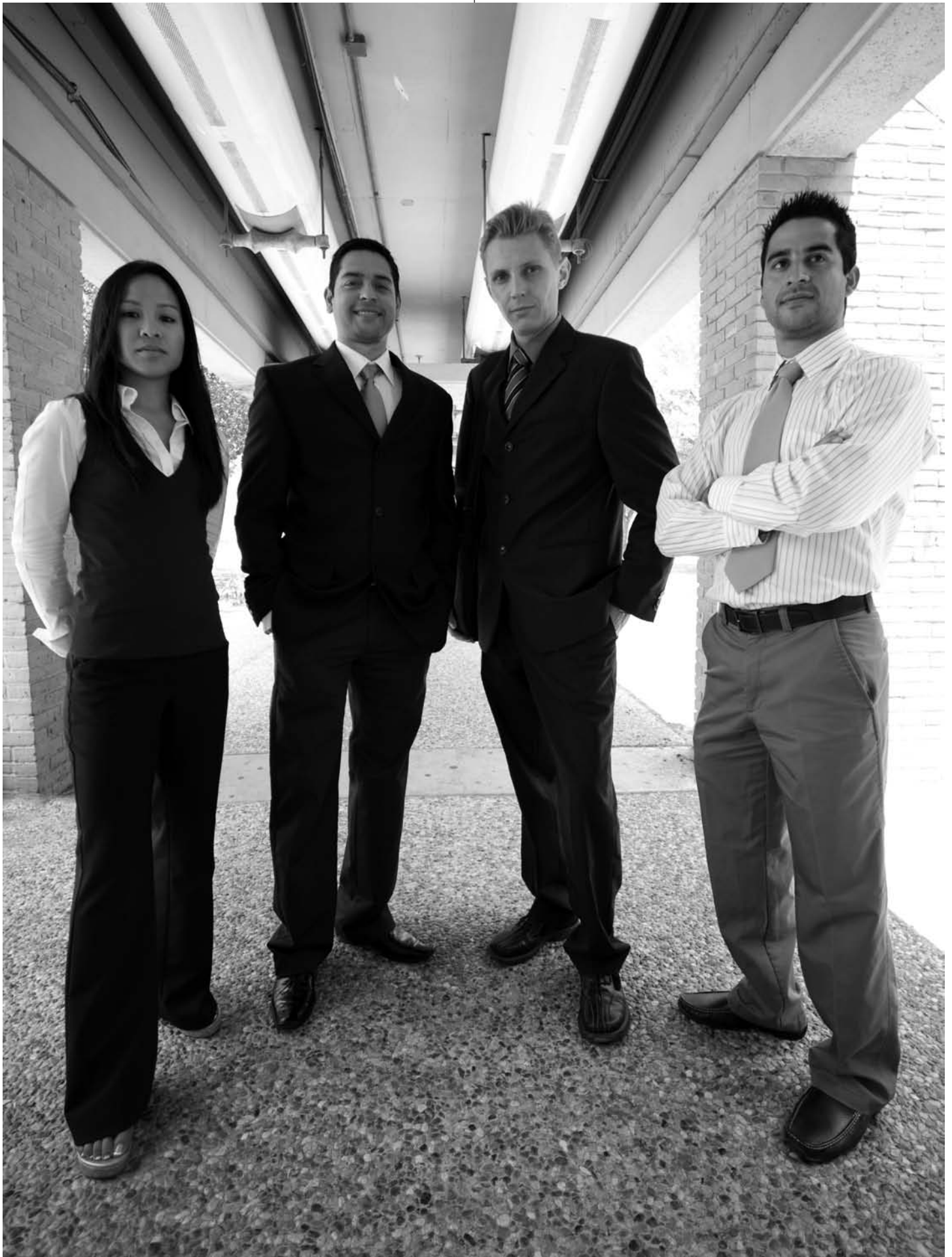
Degree Requirements

Students must complete 36 semester hours, including 12 to 18 hours of graduate music courses, including MUS 6334, and nine to 15 hours from the music courses shown below. In addition, students must complete 18 to 24 hours of graduate courses from two or more other areas in the University. See also the master's degree graduation requirements in this catalog.

Required Course 3 hours
 MUS 6334 Research Methods in Music

Designated Electives 9-15 hours
 Select from the following:
 MUS 6130 Applied Recital
 MUS 6230 Seminar in Applied Music
 MUS 6331 Seminar in Music Pedagogy
 MUS 6332 Seminar in Graduate Music Theory
 MUS 6333 Seminar in Music History and Literature

Electives from Other Graduate Areas 18-24 hours



COLLEGE OF BUSINESS ADMINISTRATION

General Overview

The College of Business Administration (COBA) at The University of Texas-Pan American has 60 full-time faculty who serve approximately 2,650 students working toward the Doctor of Philosophy (Ph.D.) in Business Administration, the Master of Business Administration (MBA), Master of Accountancy (MACC), Master of Science in Accounting (MSA), or the Bachelor of Business Administration (BBA). All programs in the College of Business Administration are fully accredited by The Association to Advance Collegiate Schools of Business (AACSB) International.

Academic Programs

The COBA is organized into four departments: the Department of Accounting and Business Law, the Department of Computer Information Systems and Quantitative Methods, the Department of Economics and Finance, and the Department of Management, Marketing and International Business. The four department chairpersons, the MBA program director, Ph.D. program director, director of undergraduate studies, and the associate deans serve with the dean in coordinating the academic activities of the college.

COBA also has the Neuhaus Center for Entrepreneurship and Economic Education, which is committed to advancing the scholarship of entrepreneurship, the Valley Markets and Tourism Research, conducting research on issues of tourism, border shopping behavior and ecotourism in the lower Rio Grande Valley area, and the Institute for Population Health Policy, which facilitates and disseminates health policy research.

Dr. Teofilo Ozuna, *Dean*

Business Administration Building, Room 114
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: 956/381-3311
Fax: 956/381-3312
E-mail: ozuna@utpa.edu
On the Web: <http://www.coba.panam.edu>

Dr. Penny Simpson, *Associate Dean Graduate Education and Research*

Business Administration Building, Room 114
Telephone: 956/381-3311
Fax: 956/381-3312
E-mail: pmsimpson@utpa.edu

Dr. John Darcy, *Associate Dean Undergraduate Education*

Business Administration Building, Room 114
Telephone: 956/381-3311
Fax: 956/381-3312
E-mail: johndarcy@utpa.edu

Graduate Faculty

Accounting

Darcy, John, *Associate Professor*
Moyes, Glen, *Professor*
Owusu-Ansah, Stephen, *Associate Professor*
Smolarski, Jan, *Associate Professor*
Zhou, Haiyan, *Assistant Professor*

Computer Information Systems

Ahlwalia, Punit, *Assistant Professor*
Hughes, Jerald, *Assistant Professor*
Koong, Kai S., *Professor*
Liu, Lai C., *Associate Professor*
Midha, Vishal, *Associate Professor*
Roge, Joseph, *Associate Professor*
Wang, Bin, *Assistant Professor*

Economics

Damianov, Damian, *Assistant Professor*
Dávila, Alberto, *Professor*
Mollick, Andre Varella, *Associate Professor*
Mora, Marie T., *Professor*
Ozuna, Teofilo, *Professor*
Pagán, José, *Professor*
Sutter, Daniel, *Associate Professor*

Finance

Brown, Cynthia, *Associate Professor*
Jackson, Dave O., *Associate Professor*
Soydemir, Gokce, *Professor*

International Business

Cortes, Angelica, *Associate Professor*
Sargent, John, *Associate Professor*
Vasquez-Parrago, Arturo, *Professor*

Management

Brewerton, F.J., *Professor*
Jung, Joo, *Assistant Professor*
Kaynak, Hale, *Associate Professor*
LeMaster, Jane, *Professor*
Matthews, Linda, *Associate Professor*
Sturges, David, *Associate Professor*
Wang, Lei, *Assistant Professor*
Wu, Sibin, *Assistant Professor*

MarketingAvellano, George, *Professor*Firat, A. Juat, *Professor*Guo, Chiquan, *Associate Professor*Minor, Michael, *Professor*Simpson, Penny, *Professor*Zolfagharian, Mohammadali, *Assistant Professor***Quantitative Methods**Sun, Jun, *Assistant Professor*Tanguma, Jesus, *Assistant Professor*

MASTERS PROGRAMS IN BUSINESS ADMINISTRATION

Dr. Angelica Cortes, *Director,*
MBA Programs

Business Administration Building, Room 124
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: 956/381-3313
Fax: 956/381-2970
E-mail: cortesa@utpa.edu

Purpose

The Office of Graduate Programs in the College of Business Administration provides for advanced study leading to the Master of Business Administration (MBA) degree, Master of Accountancy (MACC), and Master of Science in Accounting (MSA). The mission of the business masters programs at The University of Texas-Pan American is to provide South Texas with high quality graduate business education programs comparable to the leading regional business education institutions in the nation.

Business Masters Degree Admission Requirements

To be admitted to any of the masters programs in business, the student must first meet all requirements for graduate admission to UT Pan American (see page 17), as well as the other requirements listed below. Application for admission must be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

1. Application.
2. Official transcripts from all previous colleges and universities.
3. Official GMAT score.
4. If necessary, catalog(s) for evaluation of transcript(s). Copies of this material will be forwarded to the

College of Business Administration.

◆ Student Classification and Admission Criteria for the Masters Program

The student should note that classification and admission criteria for the masters program in business are in addition to those for admission to the University for graduate study.

Graduate Student Admission Classification

Students who satisfy the University graduate admissions criteria (see page 17) must then be evaluated for admission to a masters program in business.* Admission is based on an indication that the student will succeed in the respective master's program.

The GMAT score in combination with the GPA of the last 60 credit hours of undergraduate coursework in the United States is the general minimum criteria for unconditional admission to the MBA Program [GMAT+(200xGPA)=1000] and MACC Program [GMAT=(200xGPA)=1050].

* *Contact the business masters programs office for complete details regarding admission.*

Admission of International Students

International students whose native language is not English are required to take the Test of English as a Foreign Language (TOEFL). A minimum score of 500 is required to be admitted to a master's program in business.

Graduate Assistants

The College of Business Administration at UT Pan American employs graduate assistants as teaching or research assistants, depending upon the needs and budget of the college. Assistantships are awarded 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 20 hours per week per semester to their assignment while maintaining an enrollment in a minimum of nine hours of graduate coursework or 12 hours of undergraduate coursework leading to the completion of the master's degree. Graduate assistants employed during summer sessions are expected to enroll in at least six hours of graduate or undergraduate coursework leading to a master's degree. Reappointment of a graduate assistant shall be limited to a maximum of three years.

Applications for assistantship awards are available through the office of the dean or the office of the business masters programs. The completed application must be submitted to the director of business masters programs. New students applying for an assistantship must submit a letter stating that they do intend to enroll in a masters program in the College of Business Administration.

Decisions to award graduate assistantships are made on a competitive and/or college-need basis by the director of the business masters programs, and where appropriate the chair

of the department involved. Graduate students placed on academic probation or suspension, are ineligible to serve as graduate assistants.

The MBA Program is designed for those who desire to pursue advanced study in a multicultural business environment 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 executive or administrative positions in business, industry, government and service industries who wish to enhance their career opportunities.
2. Who wish to broaden their knowledge in the functional business areas in order to be more effective and self-assured in their management abilities
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.

Scope

The MBA degree is a broad-based 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 bachelors degree in any discipline. The program requires a minimum of 36 hours of graduate study and generally is completed within two academic years of study. MBA foundation courses or their equivalents should be taken prior to enrolling in advanced classes. For additional information, contact the director of the MBA Program.

A student may enter the program at the beginning of either the fall or spring semesters or the summer session, provided admission criteria are satisfactorily completed. The MBA courses are scheduled for evening hours or weekends to accommodate the large number of students with full-time day jobs.

MBA Degree Requirements

The number of hours required for an MBA degree will vary depending upon a students prior academic coursework and the suggested foundation courses.

In addition to fulfilling general requirements for a masters degree specified by The University of Texas-Pan American, candidates for the MBA should complete foundation courses or their equivalents.

MBA Foundation Courses	15	
		SCH
ACCT 6301	Principles of Accounting	3
ECON 6301	Principles of Economics	3
FINA 6303	Introduction to Finance	3
INTB 6304	Business Foundations	3
QUMT 6303	Statistical Foundations	3

Foundation coursework: MBA foundation coursework should be completed prior to taking advanced courses in the MBA Program unless the student is granted approval by the

director of the MBA Program.

Students should also provide evidence of proficiency in mathematics and computer literacy. Students needing math may complete the business calculus course MATH 1322 and students without computer user efficiency may enroll in CIS 1301.

Degree applicability of coursework from business programs that are not accredited by the American Assembly of Collegiate Schools of Business (AACSB)-The Association to Advance Collegiate Schools of Business must be determined through appropriate validation procedures and/or examination. Final approval of non-AACSB accredited coursework will be by the director of the business masters programs.

MBA Core			27
			SCH
ACCT	6320	Financial and Managerial Accounting	3
MANA	6330	Organizational Behavior	3
FINA	6340	Financial Administration	3
ECON	6350	Managerial Economics	3
MANA	6360	Operations Management	3
MARK	6370	Marketing Policy and Management	3
QUMT	6310	Business Research Foundations	3
MIS	6330	Management Information Systems	3
MANA	6390	Strategic Management	3

Graduate Electives 9 SCH
Electives will be selected from approved graduate offerings of the University. Six hours may be taken from offerings outside the College of Business Administration with the approval of the MBA director.

Emphasis

Students may have an emphasis in the MBA Program by taking at least nine graduate elective hours in one designated area. The designated area may be accounting, economics, finance, health care administration and leadership, management, management information systems or marketing.

TOTAL FOR MBA DEGREE 36-48 SCH

Thesis Option

A student may elect to write a thesis in lieu of six hours of graduate elective coursework.

Three-C Rule

A masters candidate is ineligible to continue in the program if a grade of C or lower is received in any three courses taken to complete the requirements of the MBA degree.

Receipt of a higher grade in a course that has been repeated does not cause the original grade to be disregarded in the application of this rule; all earned grades are included.

MBA DEGREE PROGRAM

Recommended Weeknight Schedule

1st Term - Fall

QUMT 6310	Business Research Foundations
ACCT 6320	Financial and Managerial Accounting
MANA 6330	Organizational Behavior

2nd Term - Spring

FINA 6340	Financial Administration
ECON 6350	Managerial Economics
MANA 6360	Operations Management

3rd Term - Fall

MARK 6370	Marketing Policy and Management
MIS 6330	Management Information Systems
Graduate Business Elective	

4th Term - Spring

MANA 6390	Strategic Management
Graduate Business Elective	
Graduate Business Elective	

MBA On-line Program Information

This challenging degree program pools the impressive resources and diverse perspectives of accredited institution in The University of Texas System institutions. Students will find a highly skilled, statewide team of professors presenting a broad, interactive curriculum.

Areas of study in this collaborative general management degree include accounting, finance, administration, business law, economics, marketing, statistics and technology. Courses are designed for a clear understanding of a marketplace that has become increasingly complex with the addition of new technologies and communications tools.

UT TeleCampus is a central support unit for online education within The University of Texas System. The TeleCampus features an award-winning web site similar in design to a traditional campus with admissions links, hundreds of learning resources and support services. Students apply to their choice from seven participating campuses, and this selected campus awards the MBA degree upon successful completion of studies. All eight partner campuses provide

courses toward the collaborative 48-hour degree. Courses are delivered via the TeleCampus Web site and contain multimedia and creative instructional technology. Students interact via chat rooms and Internet-based group activities and research projects. Class size is limited to encourage high levels of student-to-professor and student-to-student interaction. Courses run semester to semester in keeping with the academic calendars of the UT System.

◆ Participating Campuses in the MBA Online:

The University of Texas at Arlington
 The University of Texas at Brownsville
 The University of Texas at El Paso
 The University of Texas-Pan American
 The University of Texas of the Permian Basin
 The University of Texas at San Antonio
 The University of Texas at Tyler

The University of Texas at Dallas contributes courses toward the program.

All universities are SACS accredited (Southern Association of Colleges and Schools), most are AACSB International accredited with the remainders in the AACSB candidacy process.

◆ Program Delivery System

The program can be completed entirely at a distance using Internet technologies for course delivery and student support via the World Wide Web.

For more information about participating in the MBA Online Program, contact the advisors listed on the participating institutions page or call UT TeleCampus at 1-888-TEXAS-16.

MBA On-line Tuition and Fees

The amount of tuition and fees charged by each UT System campus differs and is based on residency status. As a result, the cost of taking a course in the MBA On-line Program will vary depending on which campus hosts that course. Since the MBA On-line is a collaborative program, students will take two (three-hour) courses from each of the eight participating campuses to complete the 48-credit hour degree plan. Students are billed individually by each host campus.

For detailed campus-specific tuition and fee amounts, please link to each participating campus. Please contact Marta Hubbard (mhubbard@utsystem.edu) at 1-888-TEXAS-16 if you have additional questions about tuition and fees.

GRADUATE CERTIFICATE IN HEALTH CARE ADMINISTRATION AND LEADERSHIP

There is increasing demand for health care administrators with graduate-level training that can take leadership roles in the planning, direction, coordination and delivery of health care services. Health care delivery systems are evolving rapidly due to changes in the structure and financing of the health care sector as well as due to changes in the population served. Health care managers need to have the administrative skills that would allow them to assume leadership roles in increasingly complex health care delivery systems.

The certificate program can be completed by taking four of the following five courses:

ECON 6354	Health Economics
MANA 6331	Human Resource Management
MBAO 6372/MANA 6332	Organizational Leadership and Change
NURS 6307	Health Care Policy, Organization and Financing
SPAN 6348	Language Access Policy and Planning in Health Services

MASTERS PROGRAMS IN ACCOUNTING

Dr. Jan Smolarski, *Coordinator*
Business Administration Building, Room 220C
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: 956/381-2406
Fax: 956/381-2407
E-mail: jmsmolarski@utpa.edu

The Master of Accountancy (MACC) and Master of Science in Accounting (MSA) programs are designed to enable students to compete for professional accounting positions in business and government as well as in public accounting firms. Either degree qualifies a graduate to meet the 150-hour requirements of the Texas State Board of Public Accountancy to sit for the Certified Public Accountant examination, and permits specialization in accounting beyond in the MBA

Program or the undergraduate accounting degree (Bachelor of Business Administration).

In our programs we provide a learning environment to develop a diverse set of skills in students including technical competence, critical thinking, strong communication abilities and the ability to use technology to prepare them for professional careers in a dynamic world. The foregoing statement, taken from the department mission statement, reflects the desired learning outcomes from both the undergraduate and graduate programs. The MACC and MSA programs further develop those learning outcomes.

Both the MACC and MSA programs meet the same educational objectives; however, each program addresses the needs of a slightly different population. The MACC program assumes that the student either has an undergraduate degree in accounting or has taken the leveling courses necessary to succeed in the program. It meets the needs of past graduates in accounting as well as those who may wish to retrain themselves to be accountants. The MSA Program leads to the simultaneous awarding of a BBA with a major in accounting and a Master of Science in Accounting. The program is designed for above average students who are willing to commit themselves to a five-year program during their junior year. The option allows them to achieve the two degrees with fewer total hours than if an undergraduate degree was obtained before entering a graduate program.

MACC Program

To be admitted to the MACC program, the student must first meet all requirements for graduate admission to UT Pan American (see page 17). Application for admission must be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

MSA Program

To be provisionally admitted to the MSA program, a student must meet all of the following criteria:

1. Have completed 75 hours of undergraduate work with an overall grade point average of 2.5 or higher.
2. Have a grade point average of 3.0 or better in ACC 2301, ACC 2302, and the first accounting course taken numbered in the 3000 range.

Students with provisional admission to the MSA program will apply for unconditional admittance to the MSA program during the last semester of their senior year. At that time, they must meet the following criteria:

1. Have no more than nine hours of undergraduate work remaining.
2. Have an overall grade point average of 2.5 or higher.
3. Have a grade point average in accounting courses of 3.0 or higher.
4. Provide a letter of intent explaining why they wish to obtain the MSA degree.

Provisional admittance to the program allows the student to begin to take graduate-level courses while completing the remaining undergraduate work. Students who have been provisionally admitted to the MSA but who fail to be unconditionally admitted during the last semester of their senior year will be expected to meet the BBA in accounting degree requirements to receive a bachelors degree; further, such students may seek admittance into the MACC program to complete a graduate degree in accounting.

Degree Requirements

Master of Accountancy

a. Foundation Courses-leveling courses*		27 SCH
ACC	6301 Principles of Accounting or equivalent	3
ACC	3320 Cost Accounting	3
ACC	3321 Intermediate Accounting I	3
ACC	3322 Intermediate Accounting II	3
ACC	3323 Income Tax Procedure	3
ACC	3326 Accounting Information Systems	3
ACC	3327 Fundamentals of Auditing	3
ACC	3329 Intermediate Accounting III	3
ACC	4330 Advanced Accounting	3

b. Courses required of all students		27 SCH
MACC	6310 Auditing	3
MACC	6320 Tax Topics	3
MACC	6330 Accounting Theory	3
MACC	6340 Managerial Accounting	3
MACC	6350 Information Technology	3
MACC	6360 Tax Research Methodology	3
MACC	6370 Internal Auditing	3
MACC	6333 Business Law for Accountants*	3
FINA	6340 Financial Administration	3

c. Electives courses prescribed		3 SCH
MACC	6380 Professional Ethics	

d. Courses freely elected by students		6 SCH
Elect two courses from MBA or MACC courses not included in the program.		

Total hours required for MACC degree 36 SCH

*The leveling courses apply to a person who does not have an undergraduate degree in accounting.

Master of Science in Accounting

a. Foundation Courses		38 SCH
Consisting of the University core requirements at UTPA.		

b. Courses required of all students in the MSA

1. Business Foundation		24 SCH
ACC	2301 Introduction to Financial Accounting	3
ACC	2302 Fundamentals of Managerial Accounting	3
CIS	1101 Introduction to Office Software	1
AND		
CIS	1201 Introduction to Information Systems Technology	2
OR		
CIS	1301 Computer Information Systems	3
ECON	2301 Principles of Economics I	3
ECON	2302 Principles of Economics II	3
MATH	1340 College Algebra	
OR		
MATH	1341 Business Algebra	3
MATH	1342 Business Calculus	
OR		
QUMT	2340 Introduction to Quantitative Methods in Business	3
COMM	1303 Presentational Speaking	
OR		
COMM	1313 Fundamentals of Speech Communication	3

2. Business Core		30 SCH
BLAW	3337 Business Law I**	3
ACC	3326 Accounting Information Systems*	3
FINA	3383 Managerial Finance**	3
INTB	3330 International Business	3
ECON	3360 Managerial Economics	
OR		
ECON	3381 Money and Banking	3
MANA	3361 Principles of Management and Organizational Behavior	3
ACCT	3328 Advanced Managerial Accounting*	3
MANA	4369 Strategic Management	3
MARK	3371 Principles of Marketing	3
QUMT	3343 Intermediate Business and Economic Statistics	3

3. Accounting Specialization (undergraduate level)		21 SCH
ACC	3320 Cost Accounting	3
ACC	3321 Intermediate Accounting I	3
ACC	3322 Intermediate Accounting II	3
ACC	3323 Income Tax Procedure	3
ACC	3327 Fundamentals of Auditing	3
ACC	3329 Intermediate Accounting III	3
ACC	4330 Advanced Accounting	3

4. Masters Level Requirements		21-27 SCH
MACC	6310 Auditing	3

MACC	6320	Tax Topics	3
MACC	6330	Accounting Theory	3
MACC	6340	Managerial Accounting	3
MACC	6350	Information Technology	3
MACC	6360	Tax Research Methodology	3
MACC	6370	Internal Auditing and Assurance Services	3
MACC	6333	Business Law for Accountants**	3
FINA	6340	Financial Administration**	3

c. Elective Courses Prescribed 3 SCH
 Graduate Accounting Elective from
 MACC 6380 Professional Ethics 3

d. Courses freely elected by students 6 SCH
 Elect two courses from MBA or MACC courses not included in this program.

Total hours required for simultaneous
 BBA and MSA degrees 143-149 SCH

*ACC 3326 and ACC 3328 are required to be taken as the selected courses in the information systems and analytical methods categories of the business core courses.

**Students provisionally admitted to the MSA program and making an A in BLAW 3337 and/or FINA 3383 may waive MACC 6333 and FINA 6340 respectively.

The MSA program has several courses unique to that alternative. At the undergraduate level, the student takes ACC 3326 Accounting Information Systems as the selected course in the information systems category of the business core courses. Also, the student takes ACC 3328 Quantitative Methods in Accounting as the selected course in the analytical methods category of the business core courses. Additionally, students earning an A in BLAW 3337 and/or FINA 3383 may waive MACC 6333 and FINA 6340 respectively. Finally, students in the MSA Program do not have to have three hours of accounting electives as specified in the BBA program.

Both the MSA and MACC programs will offer graduate courses in two delivery formats: the traditional classroom setting and online through the Center for Distance Learning at The University of Texas-Pan American. A student may take all courses in either format or may select a mix of delivery methods. However, a student must have the permission of the chair of the Department of Accounting and Business Law to enroll in more than nine hours of graduate work during a single semester.

Course Descriptions

Descriptions of the courses for the masters program in business can be found under the appropriate course prefix title in the Course Descriptions section of this catalog beginning on page 170 (ACC) or 212 (MACC).

DOCTORAL PROGRAM IN BUSINESS ADMINISTRATION

Dr. Andre Varella Mollick, *Director*
 Business Administration Building, Room 114
 1201 W. University Drive
 Edinburg, TX 78539-2999
 Telephone:956/316-7135
 Fax:956/381-2867
 E-mail: cobaphd@utpa.edu

Mission

The Ph.D. Program in business administration is designed to prepare students for careers in research and teaching. Flexibility in program design allows for students who seek career opportunities in the global business environment. The program seeks to create an intellectual climate that embraces diversity and global awareness. The college is committed to meeting the needs of the Rio Grande Valley region, and particular emphasis is placed on business practices as they relate to North, Central and South America.

Scope

The doctoral degree in business administration is a minimum 66-hour, double-major degree program. Each student selects a functional area major from finance/economics, management or marketing. In consultation with his or her advisory committee, the student selects courses to create an individual degree program. All students are expected to complete a quantitative methods sequence and a support field sequence designed to provide an understanding of the cultural, political and social implications of global business.

Easy access to the maquiladoras and numerous exchange agreements make it possible for the student to engage in joint research projects with an international university. All students are expected to demonstrate a working command of a language other than English before graduation. After coursework is completed, students take comprehensive examinations followed by the writing and defending of the dissertation. Each dissertation is expected to make a significant contribution to the field of knowledge encompassing global business administration.

Admission to the Ph.D. Program

To be admitted for graduate study at The University of Texas-Pan American, the student must meet all requirements for graduate admission to UT Pan American (see page 17), as well as the other requirements listed below. Application for admission must be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

Applicants must attach or request the following through their online application:

1. Official scores from the Graduate Management Admission Test (GMAT).
2. Official scores from the Test of English as a Foreign Language (TOEFL), if English is not the primary language of the applicant
3. Official scores from the Test of Spoken English (TSE), if applicable.
4. Three letters of recommendation from references who can attest to the applicants scholarly potential.
5. A brief essay from the applicant describing his or her objectives in pursuing doctoral study
6. An additional non-refundable application fee of \$35 (U.S.) to cover costs of application evaluation (paid online with university application fee).

Admission decisions for the doctoral program are made by an admissions committee. The committee members make a determination with respect to the probability of success. Thus, the student should provide materials that will be helpful in making this determination.

Applications are for entrance to the program in the fall semester. For fall admission, all documents should be received by the doctoral program by March 1 preceding the fall of entrance desired. No students are admitted to begin in spring or summer.

Foundation Coursework

All students entering the Ph.D. Program are required to have a business administration foundation. The foundation may be achieved by holding an MBA degree, an MS in a business field or a selection of coursework designed to provide the foundation. Any deficiency in the foundation coursework should be removed before the student enrolls in doctoral-level work. Foundation courses include the following:

Mathematics	minimum six hours of linear algebra/calculus (MATH 1401 and MATH 2345)
Economics	minimum three hours at the graduate level (ECON 6350 or equivalent)

Accounting	minimum three hours at the graduate level (ACCT 6320 or equivalent)
Finance	minimum three hours at the graduate level (FINA 6340 or equivalent)
Management	minimum three hours at the graduate level (MANA 6330 or equivalent)
Marketing	minimum three hours at the graduate level (MARK 6370 or equivalent)
Statistics	minimum three hours at the graduate level (QUMT 6303 or equivalent)

Transfer of Coursework

Up to nine hours of doctoral course credit may be transferred toward the degree at UT Pan American. However, hours are not automatically transferred. Students must apply to the Ph.D. Program director to have specific courses evaluated for inclusion in their degree plans. In general, courses transferred must have been taken in a time frame that permits the student to complete degree requirements at UT Pan American within a 10-year span from the date of first enrollment in transferred courses.

Ph.D. Degree Requirements

The Ph.D. degree is a minimum 66-hour degree program. The precise number of hours depends on the program designed by the student and his or her program advisory committee and by the length of time required to complete the dissertation. The 66 hours include:

Foundation Seminars	12 hours
Area Core Seminars	18 hours
Electives	15 hours
Faculty Seminar	3 hours
Pre-dissertation	6 hours
Dissertation	12 hours
Total	66 hours

The Foundations Seminars are:
 International Business Issues
 Research Methods I
 Statistical Analysis I
 Statistical Analysis II

The Research Methods I seminar will be a methodology course with Statistical Analysis I and II concentrating on multivariate statistics.

Coursework for the Ph.D. Program will be planned such that it is completed in five semesters (or 2 1/2 years) and students will be encouraged to move along toward selecting a dissertation topic within this time.

Each student must demonstrate a foreign language that

supports the dissertation research. Demonstration of language skills includes, but is not limited to, the following:

- 1) Performance by writing a scholarly paper in the language.
- 2) Submitting college transcripts showing a minimum of three years of language (18 semester hours) at the undergraduate level.
- 3) Showing evidence of participating in a concentrated language institute to the intermediate level.
- 4) Receiving scores above the 70th percentile on the standardized test in language. Language fulfillment is the responsibility of the student and is in addition to hours required for the degree.
- 5) Providing evidence that one's native language is other than English. Language performance is the responsibility of the student and is in addition to the hours required for the degree.

All students are required to take written and oral comprehensive examinations in their major fields and in methodology at the close of the coursework stage of study. Successful completion of the exams is required before the student may enroll in dissertation hours.

◆ Course Scheduling and Residency Requirement

Doctoral courses are generally scheduled in the afternoons. 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 nine hours in each semester. Hours of dissertation credit may not be used to fulfill this requirement.

◆ Maximum Period for Completion

A student has a maximum of 10 years from the date of first entry into doctoral-level courses to complete the degree. Under special circumstances, an extension for an additional year may be granted by the student's Doctoral Dissertation Committee. If a student exceeds the 10-year limit, the Doctoral Dissertation Committee will determine if the student will be permitted to continue in the program and what additional coursework or activities will be required to complete the degree.

Assistantships

The college has limited funds available exclusively for Ph.D. students. Assistantships are made on a competitive basis, and the judgment of the admissions committee regarding distribution of assistantships is final. No financial support from the doctoral program is available for part-time students. Incoming applicants requesting assistantships from the College of Business Administration should submit their request with their application materials. Academic performance will be reviewed each year to ensure that the student is making satisfactory progress.

The Ph.D. Program director will notify continuing students of the time lines for renewing or applying for assistantships.

At a minimum the student must be in good academic standing, enrolled in nine hours as a graduate student during the fall and/or spring semester. The maximum amount of time allowed for assigned teaching and research duties is 20 hours per week.

Students should contact UT Pan Americans Student Financial Services to determine if other sources of financial aid are available.

Course Descriptions

Descriptions of the courses for the Ph.D. Program in business administration can be found under the appropriate course prefix title in the Course Descriptions section of this catalog beginning on page 172.



COLLEGE OF EDUCATION

General Overview

The College of Education includes the Department of Curriculum and Instruction, the Department of Educational Psychology, the Department of Health and Kinesiology and the Department of Educational Leadership.

Academic Programs

The College of Education offers the following degree programs at the graduate level: the Master of Education in bilingual education, special education, early childhood education, elementary education, secondary education, reading, educational diagnostician, gifted education, guidance and counseling; and educational administration and supervision; the Master of Arts in school psychology; Master of Science in Kinesiology, and the Ed.D. in educational leadership.

The college also offers the opportunity for completion of certificates and endorsements at the graduate level.

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. A student may complete some M.Ed. programs at The University of Texas-Pan American without meeting all the teacher certification requirements. Please consult with the director of each program for more specific guidelines and information.

Credit for 5000-level courses may not be given to a student with previous undergraduate credit in similar courses.

At the undergraduate level, the college offers a Bachelor of Science degree with majors in kinesiology and health and Bachelor of Interdisciplinary Studies for elementary teachers. The College of Education also offers undergraduate certification in elementary with options for specialized endorsements in special education, early childhood, bilingual education and in middle school, secondary and all-level art, all-level music and all-level kinesiology education. Students are encouraged to check with the departments early in their program for specific degree requirements and development of degree plans.

All programs in the College of Education are fully accredited by the State Board for Educator Certification.

Dr. Salvador Hector Ochoa, *Dean*
College of Education, Room 3.102
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: 956/381-2943
Fax: 956/381-2184
E-mail: shochoa@utpa.edu
Web: <http://www.utpa.edu/colleges/coe>

Graduate Admission Requirements of the College of Education

The student must first meet all requirements for graduate admission to UT Pan American (see Page 17), as well as the other requirements listed below. Application for admission to the University must be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

1. Applicants for admission must have a bachelor's degree. The minor graduate field will require evidence of completion of 12 hours of undergraduate work, of which six must be advanced hours.

2. Satisfactory completion of an oral examination following the completion of 12-18 hours of graduate work.

3. Satisfactory completion of a written comprehensive examination during the last semester of graduate work.

4. The student must also complete any specific admission, program and exit requirements of the program he or she wishes to pursue. Requirements for admission to certification programs in educational leadership, special education, school psychology, guidance and counseling and gifted education are specifically outlined in their respective sections of this catalog.

Certificates

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 counselor, an educational diagnostician or an educational leader or in gifted education. Candidates for the Master of Arts or the Master of Science degrees should complete the academic requirements for the professional certificate in the major field selected for the degree.

Candidates who already hold a 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 six hours of the work used to obtain the master's degree may apply toward this certificate. These six hours may not also be applied toward the professional certificate.

An application for the professional certificate should be made in the Certification Office, Room 1.302, in the College of Education during the semester in which the certification

requirements will be completed. Students may not qualify for a professional certificate at UT Pan American unless they already hold the master's degree or have completed all of the requirements for the appropriate master's degree.

Curriculum and Instruction

Dr. Irma Guadarrama, *Department Chair*
Education Complex, Room 2.510
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: 956/381-2431 or 380-8792
Fax: 956/381-2434
E-mail: gaudarramain@utpa.edu

Graduate Faculty

Curts, James B., *Associate Professor*
DeLeon, Leticia, *Assistant Professor*
Diaz, Zulmaris, *Assistant Professor*
Esquierdo, Joy, *Assistant Professor*
Estrada, Veronica, *Associate Professor*
Farruggio, Peter, *Assistant Professor*
Garcia, Criselda, *Assistant Professor*
Gomez, Leonides, *Professor*
Guerrero, Michael, *Associate Professor*
McBride, John W., *Professor*
Medrano, Hilda, *Professor*
Murrillo, Luz, *Assistant Professor*
Osstorga, Alcione Negrao, *Assistant Professor*
Pena, Carmen, *Associate Professor*
Reyes, Maria Elena, *Professor*
Ruiz-Escalante, Jose Augustin, *Professor*
Sarmiento-Arribalzag, Matilde, *Assistant Professor*
Schall, Janine, *Assistant Professor*
Tevis, Martha, *Professor*
Yanes, Martha Jeanne, *Associate Professor*

Graduate Programs

The Department of Curriculum and Instruction offers Master of Education degrees in early childhood, elementary education, elementary bilingual education, secondary education and reading.

Master of Education 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 that are characterized by linguistic, cultural and instructional dimensions. The M.Ed. degree with specialization in bilingual education provides an opportunity to develop such characteristics.

Requirements for Admission

To be admitted to the Master of Education in Bilingual Education program, the student must first meet all requirements for admission to the Graduate School of UT Pan American (see Page 17), as well as the other requirements listed below. Application for admission must be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

1. The applicant must be a fully certified elementary or secondary teacher.
2. The applicant must submit at least two letters of recommendation from individuals in the position to judge the professional and academic potential of the applicant (submitted through the online application).
3. The applicant must submit a 250-word essay written in both English and Spanish demonstrating his/her interest in this master's program and goals upon its successful completion (submitted with the online application).

The following is the program for the M.Ed. degree with specialization in bilingual education:

Option: Thesis/Non-Thesis*

Certificate: Provisional Bilingual

Professional Development			18 hours
EDBE	6322	Bilingualism/Multiculturalism: Critical Issues and Practices	
EDBE	6324	Second Language Teaching: Theory and Methodology	
EDBE	6335	Bilingual Content Areas Across the Curriculum	
EDBE	6350	The Bilingual Reading Process	
EDBE	6351	Research on Language Development in Bilingual Environments	
EDBE	6319	Practicum in Bilingual Education (completed last semester of program)	

Specialization Area		12 hours
Language Component		6 hours
<i>Required:</i>		
SPAN	6307	Advanced Spanish Grammar and Composition for the Classroom Teacher
ENG	6321	Studies in Language and Culture

Socio-Historical Component		6 hours
<i>Select three hours from the following:</i>		
SOCI	6350	Advanced Sociology of Education
SOCI	6361	Race and Ethnic Relations
SOCI	6362	Mexican-American Society
SOCI	6363	Borderlands and Inter-American Topics

Select three hours from the following:

HIST	6306	Studies in Texas and Southwestern History
HIST	6316	Studies in Mexican and American Heritages

Resource Area 3 hours

Select three hours from the following:

EDCI	6302	Multicultural Education
		or
EDUL	6388	Sociocultural Foundations of Education

Educational Research/Measurement 6 hours

Required:

EDCI	6310	Research Methods in Education
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Select three hours from the following:

EDCI	6304	Measurement and Evaluation
EPSY	6350	Introduction to Statistics
		or
EPSY	6370	Educational and Psychological Measurement

* If the thesis option is selected, students must complete the thesis sequence below in place of the history (HIST) and sociology (SOCL) course requirements listed in the specialization areas.

ED	7300	Thesis
ED	7301	Thesis

TOTAL 39 hours

Master of Education in Early Childhood

Option: Non-Thesis
Certificate: Non-Certification

Early Childhood Core Courses 18 hours

EDEC	6380	The Young Child in a Multicultural 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	Early Childhood Program Administration
EDEC	6392	Internship in Early Childhood Setting II

Professional Development 12 hours

Required:

EDCI	6310	Research Methods in Education
EDCI	6304	Measurement and Evaluation
		or
EPSY	6367	Introduction to Statistical Methods
PSY	6330	Developmental Psychology

Select three hours from the following:

SOCL	6361	Race and Ethnic Relations
SOCL	6350	Advanced Sociology of Education

Resource Areas 6 hours

Select three hours from each area listed:

Area 1:

ENG	6321	Studies in Language and Culture
ENG	6345	Problems in Grammar, Dialects and Language Performance
ENG	6350	Introduction to Descriptive Linguistics for Teachers

Area 2:

SPAN	6344	Problems and Issues Related to Language
SPAN	6350	Special Topics in Spanish Linguistics
SPAN	6307	Advanced Spanish Grammar and Composition for the Classroom Teacher
SPAN	6347	Special Studies in Grammar and Composition

TOTAL 36 hours

Option: Thesis
Certificate: Non-Certification

ED	7300	Thesis
	7301	Thesis

NOTE: Students must complete the thesis sequence above in place of either EDEC 6390 or EDEC 6392 and one resource area course.

TOTAL 36 hours

Master of Education in Elementary Education

Option One: Non-Thesis
Certificate: Non-Certification

Content Courses 6-9 hours

Select from the following:

EDCI	6305	Educational Curriculum
EDCI	6306	Special Projects
EDMA	6328	Mathematics in the School Curriculum
EDSC	6326	Science in the School Curriculum
READ	6308	Foundations of Reading Instruction I
READ	6309	Foundations of Reading Instruction II
READ	6310	Child and Adolescent Literature
READ	6323	Problems in the Teaching of Reading
READ	6325	Practicum in Reading Instruction

Professional Development 12 hours

EDCI	6303	Philosophy of Education (required)
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Select 3 hours from the following (required):

EDTC	6301	Instructional Technology
EDTC	6302	Internet and WWW for Teaching and Learning
EDTC	6303	Instructional Design
EDTC	6304	Multimedia Production
EDTC	6305	Research, Issues and Trends in Instructional Technology
EDTC	6306	Special Topics: Projects in Instructional Technology

Select 6 hours from the following (required):

EDBE	6322	Bilingualism/Multiculturalism: Critical Issues and Practices
EDCI	6302	Multicultural Education
EDCI	6305	Educational Curriculum
EDEC	6380	The Young Child in a Multicultural Society
EDEC	6382	Emergent Literacy Development
READ	6308	Foundation of Reading Instruction I

Resource Areas 6-9 hours

Select from the following:

EDCI	6306	Special Projects
EDCI	6307	Research, Issues and Trends in Education
EDTC	6305	Research, Issues and Trends in Instructional Technology
EDTC	6306	Special Topics: Projects in Instructional Technology

Up to six hours of approved graduate courses may be taken as resource area courses.

Educational Research/Measurement 9 hours

EDCI	6308	Practicum for Teachers
EDCI	6310	Research Methods in Education
EDCI	6304	Measurement and Evaluation

TOTAL 36 hours

Option Two: Thesis
Certificate: Non-Certification

Content Courses 6-9 hours

Select from the following:

EDMA	6328	Mathematics in the School Curriculum
EDSC	6326	Science in the School Curriculum
READ	6308	Foundations of Reading Instruction I
READ	6309	Foundations of Reading Instruction II
READ	6310	Child and Adolescent Literature
READ	6323	Problems in the Teaching of Reading

Professional Development 6-12 hours

Select from the following:

EDBE	6322	Bilingualism/Multiculturalism: Critical Issues and Practices
EDCI	6302	Multicultural Education
EDCI	6303	Philosophy of Education (required)
EDCI	6306	Special Projects

EDCI	6307	Research, Issues and Trends in Education
EDTC	6301	Instructional Technology
READ	6308	Foundations of Reading Instruction I

The student may substitute three to six hours from any approved graduate-level courses.

Thesis 9 hours

ED	7300	Thesis
	7301	Thesis

Educational Research/Measurement 12 hours

EDCI	6304	Measurement and Evaluation
EDCI	6305	Educational Curriculum
EDCI	6308	Practicum for Teachers
EDCI	6310	Research Methods in Education

TOTAL 36 hours

Option Three: Non-Thesis
Certificate: Non-Certification

Elementary Specialization Area (minor) 12 hours

Twelve hours of graduate-level courses in one of the following fields or a combination of two fields selected in consultation with the graduate adviser of the department: Art, Biology, Educational Technology (EDTC), English, Political Science, Health and Kinesiology, History, Mathematics, Science (SCIE prefix), Spanish, French, Music, Physics, Theatre, Mathematics Education (EDMA), and Science Education (EDSC).

Professional Development 6-12 hours

EDCI	6303	Philosophy of Education (required)
<i>Select 3 hours from the following (required):</i>		
EDTC	6301	Instructional Technology
EDTC	6302	Internet and WWW for Teaching and Learning
EDTC	6303	Instructional Design
EDTC	6304	Multimedia Production
EDTC	6305	Research, Issues and Trends in Instructional Technology
EDTC	6306	Special Topics: Projects in Instructional Technology

Resource Areas 6-12 hours

EDCI	6305	Educational Curriculum (required)
EDMA	6328	Mathematics in the School Curriculum
EDSC	6326	Science in the School Curriculum
READ	6308	Foundations of Reading Instruction I

Three to six hours from any approved graduate-level courses may be taken as resource area courses.

Educational Research/Measurement 12 hours

EDCI	6304	Measurement and Evaluation
EDCI	6307	Research, Issues and Trends in Education
EDCI	6308	Practicum for Teachers

EDCI 6310 Research Methods in Education
(required)

TOTAL 36 hours

Master of Education in Reading

The purpose of the Master of Education in reading program is to prepare professionals to assume responsible leadership positions in the field of reading as all-level reading specialists. The objectives of the program are to provide in-depth study of:

1. Theory, knowledge and research-based instructional practices in reading education.
2. Instructional design, delivery, and assessment in reading education for students with diverse backgrounds including those with reading difficulties or disabilities.
3. Effective communication, collaboration, and leadership skills and techniques.
4. Theory and knowledge of mentoring, coaching, and consultation in the development, implementation, and evaluation of effective reading programs.

Requirements for Admission

In addition to the University's graduate admission requirements, the admission requirements for the Master of Education in reading program are as follows:

1. 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 hours or 90 quarter hours completed.
2. 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.
3. The applicant must submit a writing sample (e.g., an essay or business letter that reflects the applicant's professional interest and/or professional goals in reading education).
4. The applicant must hold a valid teaching certificate and have taught in a public or private school setting for a minimum of two years. Copies of teacher educator certificates and teacher service record(s) indicating two years of successful teaching must be submitted to the program director. This requirement is waived for applicants teaching in community college settings.
5. The applicant must have earned a minimum of 18 semester credit hours, or a minor, of coursework in reading or a reading-related field at the undergraduate level (e.g., English language arts, reading, English, bilingual education/ESL, special education or linguistics).

The following is the program for the Master of Education in reading degree:

Option One: Non-Thesis
Certificate: All-Level Reading Certificate

Reading Area	24 hours
READ 6308	Foundations of Reading I
READ 6309	Foundations of Reading II
READ 6310	Child and Adolescent Literature
READ 6313	Linguistics for Reading
READ 6323	Problems in the Teaching of Reading
READ 6329	Diagnostic Teaching of Reading
READ 6325	Practicum in Reading Instruction
READ 6351	Teaching Content Area Reading

Resource Area

Select 6 hours from the following:

EDBE 6350	Bilingual Reading Process
EDBE 6351	Research on Language Development in Bilingual Environments
ENG 6325	Composition Techniques
READ 6320	Integrating Writing in the Reading Classroom

Professional Development	6 hours
EDCI 6305	Educational Curriculum
EDCI 6310	Research Methods in Education

TOTAL 36 hours

Option Two: Thesis
Certificate: All-Level Reading Certificate

Reading Area	24 hours
READ 6308	Foundations of Reading I
READ 6309	Foundations of Reading II
READ 6310	Child and Adolescent Literature
READ 6313	Linguistics for Reading
READ 6323	Problems in the Teaching of Reading
READ 6329	Diagnostic Teaching of Reading
READ 6325	Practicum in Reading Instruction
READ 6351	Teaching Content Area Reading

Resource Area	6 hours
ED 7300	Thesis
ED 7301	Thesis

Professional Development	6 hours
EDCI 6305	Educational Curriculum
EDCI 6310	Research Methods in Education

TOTAL 36 hours

Master of Education in Secondary Education

Option One: Non-Thesis
Certificate: Non-Certification

Specialization Area 12-18 hours

Twelve to 15 hours of graduate-level courses in one or two of the following fields after consultation with the graduate adviser in the department: Art, Biology, Chemistry, Communication, Educational Technology (EDTC), English, Political Science, Kinesiology, History, Mathematics, Psychology, Physics, Science (SCIE prefix), Sociology, Spanish, Theatre, French and Music.

Educational Research/Measurement 9 hours

EDCI	6310	Research Methods in Education
EDCI	6302	Multicultural Education
or		
EDCI	6303	Philosophy of Education
EDCI	6304	Measurement and Evaluation

Professional Development 9 hours

EDCI	6305	Educational Curriculum (<i>required</i>)
EDCI	6308	Practicum for Teachers (<i>required</i>)
<i>Select three hours from the following (required):</i>		
EDTC	6301	Instructional Technology
EDTC	6302	Internet and WWW for Teaching and Learning
EDTC	6303	Instructional Design
EDTC	6304	Multimedia Production
EDTC	6305	Research, Issues and Trends in Instructional Technology
EDTC	6306	Special Topics: Projects in Instructional Technology

Resource Area 3-6 hours

Up to six hours from any graduate-level courses that 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.

TOTAL 39 hours

Option Two: Thesis
Certificate: Non-Certification

Specialization Area 12 hours

Select 12 hours of graduate-level courses in consultation with the graduate adviser in the department from one or two of the following fields: Art, Biology, Chemistry, Communication, Educational Technology (EDTC), English, Kinesiology, History, Mathematics, Political Science, Physics, Psychology, Science (SCIE prefix), Sociology, Spanish, Communications, Theatre, French, and Music.

Educational Research/Measurement 9 hours

EDCI	6310	Research Methods in Education
EDCI	6302	Multicultural Education
or		
EDCI	6303	Philosophy of Education
EDCI	6304	Measurement and Evaluation

Professional Development 9 hours

EDCI	6305	Educational Curriculum (<i>required</i>)
EDCI	6308	Practicum for Teachers (<i>required</i>)
<i>Select three hours from the following (required):</i>		
EDTC	6301	Instructional Technology
EDTC	6302	Internet and WWW for Teaching and Learning
EDTC	6303	Instructional Design
EDTC	6304	Multimedia Production
EDTC	6305	Research, Issues and Trends in Instructional Technology
EDTC	6306	Special Topics: Projects in Instructional Technology

Thesis 6 hours

ED	7300	Thesis
	7301	Thesis

TOTAL 39 hours

Course Descriptions

A listing of graduate courses offered by the Department of Curriculum and Instruction can be found in the Course Descriptions section of this catalog beginning on Page 187.

Educational Psychology

Dr. Stephanie Brickman, *Department Chair*
Education Building, Room 1.510
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: 956/381-2901
Fax: 956/381-2395
E-mail: sjbrickman@panam.edu

Graduate Advisors

Dr. Cheryl Fielding, *Educational Diagnostician*
Dr. Peter Kranz, *Guidance and Counseling*
Dr. Jo Ann Mitchell, *Special Education*
Dr. Harold Poelzer, *Gifted Education*
Dr. Olga Rodriguez-Escobar, *School Psychology*
Dr. Santiago Silva, *Guidance and Counseling*
Dr. Scott Sparrow, *Guidance and Counseling*

Graduate Faculty

Alvarado, Victor, *Professor*
Brickman, Stephanie, *Associate Professor*

Carlson, Ralph, *Professor*
 Casebeer, Cindy, *Assistant Professor*
 Castillo, Yvonne, *Assistant Professor*
 Fielding, Cheryl, *Associate Professor*
 Kranz, Peter, *Associate Professor*
 Lowdermilk, John, *Assistant Professor*
 Mitchell, Jo Ann, *Professor*
 Poelzer, Harold, *Professor*
 Ramirez, Sylvia, *Associate Professor*
 Rice, Cynthia, *Assistant Professor*
 Rodriguez-Escobar Olga, *Assistant Professor*
 Saenz, Laura, *Assistant Professor*
 Shen, Jean, *Assistant Professor*
 Silva, Santiago, *Assistant Professor*
 Sparrow, Scott, *Assistant Professor*

Overview of Graduate Programs

The Department of Educational Psychology offers the Master of Education degree in guidance and counseling, educational diagnostician, gifted education, special education, and the Master of Arts in school psychology. It also offers an endorsement in gifted education at the graduate level.

Mission Statement

The Department of Educational Psychology consists of programs which are designed to meet the educational needs of individuals from diverse socioeconomic, sociocultural, and linguistic backgrounds in the South Texas region, Southwestern United States and the United States. It is committed to providing the highest quality of instruction, faculty development, student advisement, and educational services to the community and research in various fields of endeavor.

Goals

The goals of the Department of Educational Psychology are all-inclusive and ambitious in their role to create fertile ground for the overall mission of the department. These goals include an ongoing effort:

1. To offer educational programs which respond to the needs of individuals of diverse socioeconomic, sociocultural, and linguistic backgrounds in Texas, Southwestern United States, and the United States.
2. To provide core studies for other graduate and undergraduate programs in the College of Education.
3. To create and utilize research-based teaching practices to enhance the quality of instruction in higher education.
4. To provide opportunities for the faculty and students to be engaged in scholarly research, particularly focusing on issues related to diverse populations.
5. To provide systematic recruitment, retention and advisement to students.
6. To provide services to local and regional educational agencies through consultation, technical assistance and

evaluation.

7. To encourage and foster student involvement and leadership in professional organizations and activities at the local, state, and national levels.

8. To provide opportunities for the blending of theory and practice through University field-based programs.

9. To develop state of the art facilities, resources and technology for local and distance education.

Master of Education in Guidance and Counseling

Mission

The mission of the Guidance and Counseling is to prepare a highly competent professional who can respond to student needs in the academic setting. Preparation of the professional counselor is accomplished through completion of a program of studies designed to ensure that the counselor will demonstrate the highest quality of professional knowledge, skills and attitudes in a learner-centered environment.

The counselor is an integral part of the academic services in public school education who serves to facilitate the growth and learning of students. The counselor, upon completion of the Master of Education degree in school 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.

The Department of Educational Psychology also offers a Licensure Plan for preparation of the National Counselor Examination (NCE). The Licensed Professional Counselor (LPC) Track prepares counselors who can respond to the life span mental health needs of our community.

Program of Studies

◆ Course Sequence Requirements

Forty-eight hour school counseling program.

- EPSY 6358 and EPSY 6370/6350 can be taken at any time.
- EPSY 6320, EPSY 6366, EPSY 6390, EPSY 6391, Individual Differences course requirement and Intervention course requirement can be taken at any time.
- EPSY 6361 and EPSY 6362 can be taken concurrently.
- In order to take EPSY 6363, you must have taken EPSY 6361 and EPSY 6362.
- In order to take EPSY 6364, you must have taken EPSY 6361, EPSY 6362 and EPSY 6363.

- In order to take EPSY 6365, you must have taken EPSY 6361, EPSY 6362, EPSY 6363 and EPSY 6364.
- In order to take EPSY 6367, you must have taken EPSY 6350 or EPSY 6370.
- In order to take EPSY 6368, you must have taken EPSY 6358, EPSY 6350 or 6370, EPSY 6320, EPSY 6367, Individual Differences course requirement and Intervention course requirement, EPSY 6361, 6362, 6363, 6364, 6365 and three of the following courses: EPSY 6366, EPSY 6390 and EPSY 6391. Thus, a student can co-enroll in EPSY 6368 and one of the following courses: EPSY 6366, EPSY 6390 and EPSY 6391.
- In order to take EPSY 6369, you must have taken EPSY 6358, EPSY 6350 or EPSY 6370, EPSY 6320, Individual Differences course requirement and Intervention course requirement, EPSY 6361, 6362, 6363, 6364, 6365, 6366, 6367, 6368, 6390 and 6391. A student can co-enroll in EPSY 6366, 6390 and 6391.

Foundation Courses

EPSY	6358	Introduction to Research
EPSY	6350	Introduction to Statistics
		or
EPSY	6370	Educational and Psychological Measurement*

* Recommended.

Required Sequence Courses

EPSY	6361	Organization and Management of Guidance and Counseling Programs
EPSY	6362	Personal/Social Development of the Counselor
EPSY	6363	Counseling Theories
EPSY	6364	Counseling Methods and Techniques
EPSY	6365	Group Counseling Techniques

Other Core Courses

EPSY	6366	Lifestyle and Career Development
EPSY	6367	Assessment of Counseling and Development *
EPSY	6390	Human Growth and Development
EPSY	6391	Counseling the Culturally Diverse
EPSY	6320	Consultation and Collaboration with Parents, Professionals and Agencies

* Must have taken EPSY 6350 or 6370.

Individual Differences Course

EPSY	6300	Advanced Individual Differences
		or
EPSY	6303	Learning Disabilities
		or
EPSY	6305	Advanced Studies in Psychopathology Intervention Course
EPSY	6322	Advanced Educational Psychology

		and Principles of Learning
		or
EPSY	6315	Strategies, Curricula & Material for Teaching the Seriously Emotionally Disturbed
		or
EPSY	6333	Counseling the Gifted and Talented
		or
EPSY	7352	Psychotherapy for Children (will include gifted information)

Culmination Courses

EPSY	6368	Counseling Practicum I
EPSY	6369	Counseling Practicum II

Licensure Plan

48 + 9 hours

EPSY	6392	Counseling Practicum III
EPSY	6393	Marriage and Family Counseling

Select three hours from the following:

EPSY	6100	Seminar in Counseling and Guidance
EPSY	6101	Seminar in Counseling and Guidance

EPSY	6102	Seminar in Counseling and Guidance (repeat three times)
		or

PSY	6305	Advanced Studies in Psychopathology
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Total Licensure Plan

57 hours

Requirements for Admission to the School Counseling Program

Admission to Counselor Education

- A. A student must first meet all requirements for graduate admission to UT Pan American (see Page 17). Application for admission to the University must be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office. Applicants reviewed and accepted only during fall and spring semesters.
- B. Upon admission to graduate studies, a student may enroll in EPSY 6358, EPSY 6350 or EPSY 6370.

NOTE: A student must earn at least a B in every course with the exception of EPSY 6358, EPSY 6350 or EPSY 6370 in which a grade of C or better is required. In the event that a student does not meet the aforementioned requirements, the student must repeat the course prior to continuing the sequence.

- ◆ Appeal Process for Students Denied Admission
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 3.25 grade point average.
2. Satisfactory completion of a written comprehensive examination (to be taken during enrollment in EPSY 6368).

Master of Education Degree as an Educational Diagnostician

The educational diagnostician works within the special education department in public school systems and is the professional who is primarily responsible for conducting and coordinating the initial full individual evaluation of students suspected of having a disability. Educational diagnosticians also conduct and coordinate re-evaluations of students currently receiving special education and related services.

This program prepares the prospective educational diagnostician to conduct full individual evaluations and compose written reports.

Students in the program also are prepared to interpret the results of evaluation data to parents and other professionals; work with the multidisciplinary team to plan and incorporate appropriate teaching methods, materials and mastery level into the individual education plans of students with disabilities; assist public schools by possessing knowledge of compliance issues regarding federal and state laws, rules and regulations that affect students with disabilities; and understand the importance of the child-centered process in all aspects of education.

Requirements for Admission

1. Applicants must first meet all requirements for graduate admission to UT Pan American (see Page 17), as well as the other requirements listed below. Application for admission to the University must be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.
2. Applicants must be a teacher certified in special education and must have at least two years teaching experience with one year of service working as a special education teacher.
3. Applicants must submit the following:
 - Application.
 - Statement of purpose.
 - Current teacher service record verifying minimum

one year special education teaching experience and two years total teaching experience.

- Recent PDAS.
- Three letters of recommendation.
- Special Education Certification Examination Scores.
- Teacher Certification.

Program admission is not based on any single criterion; multiple criteria are considered. Students who are denied admission for any single reason may appeal to the faculty of the Educational Diagnostician Program.

◆ **Degree/Certification Requirements**

This is a 45-hour program that begins in the fall semester and requires three years to complete. During the third year of the program, students are eligible and encouraged to work as an educational diagnostician within a local school district.

Students are not permitted to take courses until they have been accepted to the program.

Course Sequence

EPSY	6300	Advanced Individual Differences
EPSY	6302	Psychology of Mental Retardation
EPSY	6303	Learning Disabilities
EPSY	6304	Culturally and Linguistically Diverse Exceptional Learner I: Problems, Trends and Issues
EPSY	6307	Legal Foundations of Special Education
EPSY	6311	Applied Behavioral and Cognitive Therapies
EPSY	6316	Literacy for Elementary Students with Mild Disabilities
EPSY	6320	Consultation and Collaboration with Parents, Professionals and Agencies
EPSY	6322	Advanced Educational Psychology and Principles of Learning
EPSY	6358	Introduction to Research
EPSY	6370	Educational and Psychological Measurement
EPSY	6380	Introduction to Cognitive and Academic Assessment
EPSY	6381	Advanced Cognitive and Academic Assessment
EPSY	6382	Bilingual and Multicultural Assessment
EPSY	7302	Practicum for Educational Diagnosticians

The oral examination is part of EPSY 6380 and the written comprehensive final examination is part of EPSY 7302.

◆ **SBEC Standards**

In keeping with the State Board of Educator Certification (SBEC) Standards for Educational Diagnosticians (Texas Administrative code, Title 19, Part 7, Chapter 239, Subchapter C, Rule §239.83), courses in this program address the following areas:

1. Purpose, philosophy, and legal foundation of evaluation and special education.
2. Ethical and professional practices, roles and responsibilities.
3. Collaborative relationships with families, educators, school, community, outside agencies and related service personnel.
4. Student assessment and evaluation, program planning, and instructional decision making.
5. Eligibility criteria and procedures for identifying students with disabilities and determining the presence of an educational need.
6. Selection, administration, and interpretation of appropriate formal and informal assessments and evaluations.
7. Ethnic, linguistic, cultural, and socioeconomic diversity and the significance of student diversity for evaluation, planning and instruction.
8. Scheduling, time management, and organization.
9. Addressing behavioral and social interaction skills of students through appropriate assessment, evaluation, planning and instructional strategies.
10. Curricula and instructional strategies for individuals with disabilities.

Master of Education Degree in Gifted Education

The purpose of the Master of Education degree in gifted Education is to prepare professionals to assume responsible leadership positions in the education of gifted and talented students. The program objectives are to provide in-depth studies of the:

1. Theory, knowledge and practices in gifted education.
2. Measurement and assessment theory in gifted education.
3. Assessment and development of creativity.
4. Instructional strategies, program development and evaluation in gifted education.
5. Special problems of gifted individuals.

The program also provides opportunities for graduate students to develop professional competency through applied practice in different educational settings. Further, students may elect to participate in opportunities to research gifted individuals from bilingual or multicultural or heterogeneous socioeconomic populations.

Requirements for Admission

In order to be admitted to the program, the student must:

1. Meet all requirements for graduate admission to UT Pan American (see Page 17), as well as the other requirements listed below. Application for admission to the University must be submitted online; the application is available at www.utpa.edu/gradschool.

Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

2. 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. Have a 3.0 undergraduate admission grade point or more.
4. Submit at least three letters of recommendation from persons in a position to judge the professional and academic potential of the candidate.
5. Participate in a structured interview with the coordinator of the gifted program.

Degree Requirements

The master’s degree in gifted education provides the option of either a 39-hour thesis program or a 39-hour non-thesis program. Both programs consist of a core of 27 hours including two (three-hour) practicum courses (the first focusing on the teaching of gifted students, the second on the administration of gifted programs) and six hours of designated electives. The thesis program requires six hours of thesis, the non-thesis program either six hours of applied research or six hours of designated electives, the choice of electives to be determined through consultation between the student and his or her graduate adviser.

In addition, the student is required to pass a written, comprehensive examination.

	Semester Credit Hours		
	Thesis	Non-Thesis Applied Research	Non-Thesis Designated Electives
Required Core	27	27	27
Designated Electives	6	6	12
Free Electives	0	0	0
Thesis	6	0	N/A
Applied Research Project	N/A	6	N/A
TOTAL HOURS	39	39	39

◆ Curriculum

Required Core Courses 27 hours

EPSY	6330	Identifying the Gifted and Talented
EPSY	6331	Curriculum, Methods and Materials for the Gifted and Talented
EPSY	6332	Creativity and the Gifted and Talented
EPSY	6333	Counseling the Gifted and Talented
EPSY	6334	Practicum I in Gifted Education
EPSY	6335	Practicum II in Gifted Education
EPSY	6337	Administration of Gifted and Talented Programs
EPSY	6350	Introduction to Statistics
EPSY	6358	Introduction to Research

Designated Elective Courses 6 hours or 12 hours

EPSY	6322	Advanced Educational Psychology and Principles of Learning
ED	6311	Advanced Child Psychology
EPSY	6338	Atypical Gifted Children
EPSY	6340	Critical and Creative Thinking for Gifted Students
EPSY	6341	Gifted Students in the Visual and Performing Arts
EPSY	6342	Seminar in Gifted Education
EPSY	6344	Gifted Child in the Regular Classroom
EPSY	6346	Independent Study
EPSY	6350	Introduction to Statistics
EPSY	6351	Intermediate Statistics
EPSY	6354	Program Evaluation
EPSY	6370	Educational and Psychological Measurement

Thesis and Non-Thesis Options 6 hours

• Thesis		
ED	7300	Thesis
ED	7301	Thesis

• Non-Thesis		
EPSY	7602	Applied Research Project 6 hours

TOTAL 39 hours

Master of Arts Degree in School Psychology

The purpose of the 69-hour master’s degree program in school psychology is to prepare school psychologists for those schools and agencies that provide treatment and educational programs in a society that 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 for intervention, cognitive-behavioral-psychodynamic psychotherapy and interdisciplinary consultation with teachers, administrators, parents and community agencies. Additional credit hours are required to be eligible for state licensure.

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 the following credential(s):

1. Licensed Specialist School Psychologist (LSSP) by the Texas State Board of Examiners of Psychologists.
2. National Certification as a School Psychologist by the National Association of School Psychologists. (Students seeking the certification must consult with

their advisor concerning NASP requirements.)

Requirements for Admission

In order to be admitted to the program, the student must meet all requirements for graduate admission to UT Pan American (see Page 17), as well as the other requirements listed below. Application for admission to the University must be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

1. The applicant must have a 3.0 grade point average or more on a 4.0 scale in the last 60 semester hours or 90 quarter hours completed.
2. The applicant must submit official Graduate Record Examination (GRE) (General Test) 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. At least one of the letters should be from a university college professor in the students major area of study.
4. The applicant must submit a letter of application with a statement of reasons (500 word minimum) for pursuing a master’s degree in school psychology to the coordinator for the school psychology program.
5. Bachelor’s or master’s degree in a field related to school psychology (e.g., psychology, education, rehabilitation counseling, or social work is preferred, but not required).

◆ Degree Requirements

The degree of Master of Arts in school psychology provides a 69-hour non-thesis program. 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 advisor.

Semester Credit Hours

	Non-Thesis
Required Psychology Core	63
Designated Electives	6
TOTAL HOURS	69

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 a 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 C rule described in number two above.

◆ Curriculum

Required Courses	63 hours
EPSY 6300	Advanced Individual Differences
EPSY 6301	Psychopathology of Children and Adolescents
EPSY 6310	Ethical and Legal Issues in the Role of the School Psychologist
EPSY 6311	Applied Behavioral Analysis and Cognitive Therapy
EPSY 6312	Consultation
EPSY 6315	Emotional Disturbance: Strategies, Curricula and Materials
EPSY 6350	Introduction to Statistics
EPSY 6358	Introduction to Research
EPSY 6370	Educational and Psychological Measurement
EPSY 6380	Introduction to Cognitive and Academic Assessment
EPSY 6381	Advanced Cognitive and Academic Assessment
EPSY 6382	Bilingual and Multicultural Assessment
EPSY 6383	Personality Assessment of Childhood
EPSY 7308	Child Therapy and Adolescent Practicum
EPSY 7350	Internship I
EPSY 7351	Internship II
EPSY 7352	Psychotherapy for Children and Adolescents
PSY 6320	Current Perspectives in Physiological Psychology
PSY 6325	Theoretical Issues in Learning
PSY 6330	Advanced Studies in Child Development
SOCI 6350	Advanced Sociology of Education

Directed Electives 6 hours

Choose 1 of the following:

EDUL 6384	Introduction to Educational Administration
EPSY 6316	Literacy for Elementary Students with Mild Disabilities

Choose 1 of the following:

EPSY 6351	Intermediate Statistics
EPSY 6356	Single Subject Design
EPSY 7310	School Psychology Research Project

TOTAL HOURS 69

Master of Education Degree in Special Education

The Master's of Education degree in special education is a 39-hour program. This program has two tracks: (a) low-incidence, and (b) high-incidence.

The low-incidence track is intended for students interested in working with children with severe and profound disabilities. Graduates may work in traditional school settings or hospital settings.

The high-incidence track is for students interested in working with students in K-12 schools in an inclusion, resource or self-contained classroom.

Requirements for Admission

In order to be admitted to the Master of Education in special education program, the student must:

1. Meet all requirements for graduate admission to UT Pan American (see Page 17). Application for admission to the University must be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.
2. Must hold bachelor's degree from an accredited institution.
3. Must have a 3.0 GPA or more on a 4.0 scale in the last 60 semester hours or 90 quarter hours or 2.5 GPA for all coursework.

Applicants must attach or request the following through their online application:

4. Recommendations from persons in a position to judge the professional and academic potential of the candidate.

Degree Requirements

Students must maintain a 3.0 GPA overall in all required courses.

Students starting this program without any background in special education may be required to take the Graduate Individual Difference course. This course does not count toward the required 39 hours.

Core Courses	27 hours
EPSY 6304	Culturally and Linguistically Diverse Exceptional Learner I: Problems, Trends and Issues
EPSY 6307	Special Education Law
EPSY 6311	Applied Behavioral Analysis and Cognitive Therapies
EPSY 6316	Literacy for Elementary Students with Mild Disabilities
EPSY 6318	Instructional Technology and

		Adaptive Assistive Devices for the Exceptional Individual
EPSY	6356	Research Methods in Single-Subject Design
EPSY	6358	Introduction to Research
EPSY	6370	Educational and Psychological Measurement
EPSY	6389	Culturally and Linguistically Diverse Exceptional Learner II: Characteristics

Students choose one of the two tracks below and take all of the courses listed under the track they choose.

High-Incidence Track		12 hours
EPSY	6302	Psychology of Mental Retardation
EPSY	6303	Learning Disabilities
EPSY	6315	Emotional Disturbances: Strategies, Curricula and Materials
EPSY	6320	Consultation and Collaboration with Parents, Professionals and Agencies
Low-Incidence Track		12 hours
EPSY	6305	Medical Aspects of Disabilities
EPSY	6314	Severe and Profound Disabilities: Strategies, Curricula and Materials
EPSY	6320	Consultation and Collaboration with Parents, Professionals and Agencies
EPSY	6385	Autism Spectrum: Assessment and Program Planning
Total hours		39 hours

Kinesiology

Dr. Paul Villas, *Interim Department Chair*
 Physical Education Complex I, Room 1.110
 1201 W. University Drive
 Edinburg, TX 78539-2999
 Telephone: 956/381-3501
 Fax: 956/381-3502
 E-mail: pvillas@utpa.edu
 Web: <http://www.utpa.edu/dept/kinesiology>

Graduate Faculty
 Dugas, Donna M., *Associate Professor, Kinesiology*
 Guinn, Robert, *Professor, Health*
 Jorgensen, Layne, *Professor, Kinesiology*
 Myers, Deborah, *Assistant Professor, Kinesiology*
 Oh, Jung-il, *Assistant Professor, Kinesiology*
 Sawyer, Mitchell, *Assistant Professor, Kinesiology*
 Villas, Paul, *Professor, Health*
 Wang, Lin, *Assistant Professor, Kinesiology*

Graduate Program

The Department of Health and Kinesiology offers a Master of Science degree with a major in kinesiology. Courses can be taken in the traditional face-to-face [F2F] classroom at UTPA, or you can select UTPA as your Home Campus for the online MS degree in kinesiology. Students may select either the thesis or non-thesis route. Both are 36-hour programs. 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, who is selected by the student and graduate program coordinator.

Four of The University of Texas System universities have collaborated to offer a Web-based master's degree in kinesiology. UTPA is part of the collaborative and is one of the degree-granting institutions. For more information, visit the kinesiology Web site at The UT System TeleCampus Web site, www.telecampus.UTsystem.edu, contact Dr. Layne Jorgensen at lj85f@utpa.edu for the traditional program or Dr. Deborah Myers at deblmyers@utpa.edu for the online program.

The Department of Health and Kinesiology uses the University's entrance requirements for graduate student admission. Application for admission to the University must be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

The department requires a GPA of 2.5 or higher cumulatively on undergraduate work. In addition, students must provide proof of:

1. Having an undergraduate degree in kinesiology or a

related field to be determined by the graduate coordinator. Students not meeting this requirement must complete up to 18 hours of leveling work prior to beginning graduate studies. The graduate coordinator will determine the courses to be taken.

2. Taking the GRE (Graduate Record Exam), (traditional program only).
3. Submitting three letters of recommendation, (traditional program only).
4. Submitting official transcripts of all undergraduate work.

Master of Science Degree in Kinesiology

Major: Kinesiology

Whether you take courses in the traditional face-to-face classroom (KIN courses) at UTPA or you select UTPA as your Home Campus for the online (KINO courses) MS degree in kinesiology, the requirements are the same. You must complete 36 hours of coursework which includes the 12 semester-hour core required by UTPA. Upon completion of 36 hours, you must satisfactorily complete a comprehensive examination of the core courses (12 hours, four courses) listed below and two elective courses.

Traditional (and Online) Courses

Required 12 hours

All students must complete the following four core courses for the M.S. degree in kinesiology at UTPA:

KIN	6301	(KINO 6340)	History and Philosophy of Kinesiology (History and Philosophy)
KIN	6302	(KINO 6372)	Methods of Research in Kinesiology (Research Methods)
KIN	6303	(KINO 6370)	Applied Tests and Measurements in Kinesiology (Introduction To Statistics)
KIN	6304	(KINO 6310)	Scientific Foundations of Kinesiology (Exercise Physiology)

Traditional Elective Courses

12-24 hours

Select 12-24 hours from the following depending upon the resource:

KIN	5313	Workshop in Kinesiology
KIN	5351	Kinesiology Curriculum for the Handicapped Student
KIN	5357	Health Seminar
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	6310	Organization and Administration of Sport Programs
KIN	6311	Legal Issues in Sport
KIN	6312	Governing Agencies for Sport
KIN	6313	Ethics in Sport
KIN	6319	Internship in Sport
KIN	6320	Independent Research
KIN	6321	Kinesiology Internship
KIN	6330	Issues in Adapted Physical Activity Including Students with Disabilities in Regular Physical Education
KIN	6332	Special Techniques of Motor Assessment for Individuals with Disabilities
KIN	6333	Adapted Sports and Activities for Individuals with Disabilities
KIN	6340	Advanced Biomechanics
KIN	6350	Sport and Exercise Psychology
KIN	7300	Thesis
KIN	7301	Thesis

Traditional Resource Area

0-12 hours

With the approval of the graduate program coordinator, the student can select 0-12 hours of graduate-level courses in a related discipline to complete the degree requirements, in the traditional program.

Online Elective Courses:

24 hours

With graduate faculty adviser approval, 24 hours of electives and/or interest areas must be selected from the online courses. If you plan to take both online and traditional delivery courses you must still have graduate faculty adviser approval from each program coordinator.

KINO	6312	Training and Conditioning Methods
KINO	6316	Applied Biomechanics
KINO	6320	Sport Psychology
KINO	6322	Applied Sport Psychology
KINO	6323	Exercise Psychology
KINO	6326	Motor Learning and Control
KINO	6330	Sport and Society
KINO	6342	Ethics in Health and Kinesiology
KINO	6346	Contemporary Issues in Physical Education and Sport
KINO	6348	U.S. Health System
KINO	6350	Curricular Innovations
KINO	6352	Analysis of Teaching and Coaching
KINO	6354	Early Childhood Physical Activity
KINO	6356	Issues in Adapted Physical Activity
KINO	6360	Administration of Physical Education and Athletic Programs
KINO	6380	Nutrition, Health, and Disease
KINO	6382	Sports Nutrition

TOTAL(Traditional and Online)
36 Hours

Thesis Option

A thesis option provides the opportunity to conduct original research in an interest area pertaining to sports and/or kinesiology. A student selecting this option must complete 30 hours of coursework and six hours of thesis credit.

NOTE: Obtaining a Master of Science with a major in kinesiology usually requires a minimum of two years as a full-time student. Prospective master's candidates should realize that the required courses in the traditional program cycle every two years and that missing a course may delay their graduation. Check with the online program to determine if the needed course is available. Once the program is begun, the candidate has seven years to complete the requirements.

Graduate Online Adviser

Please consult with the graduate online faculty adviser to determine the best coursework to enroll in to achieve your goals and objectives. By viewing the entire course offering, you can see that there are several tracks or interest areas you may pursue. By clicking on Course List you may view each telecampus course description.

Graduate Teacher Certification Program (G-TEC)

Masters Texas Teacher Certification Program

The Department of Kinesiology offers students who graduate with a non-certified kinesiology degree the opportunity to obtain teacher certification and one-half of a traditional master's degree at the same time. The G-TEC Program allows students to apply for a supervised teaching position in the public schools while satisfying 18 hours of graduate work. If the program is successfully completed and both Texas Examination of Education Standards (TExES) tests are passed, teacher certification will be awarded. Students wishing more information should first contact Dr. Layne Jorgensen, 956/381-3506 or LJ85FO@utpa.edu or Dr. Jaime Curts, 956/381-2425 or jbcurts@utpa.edu.

Course Descriptions

A listing of traditional graduate courses offered by the Department of Health and Kinesiology can be found in the Course Descriptions section of this catalog on Page 210.

A listing of the online graduate courses offered by the UT System Telecampus is available at <http://www.telecampus.utsystem.edu>.

Educational Leadership

Dr. Velma Menchaca, *Department Chair*
Education Building, Room 1.514
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: 956/381-3436
Fax: 956/381-2927
E-mail: menchaca@utpa.edu

Graduate Faculty

Arispe y Acevedo, Baltazar, *Professor*
De los Santos, Miguel, Associate Professor
Guajardo, Francisco, *Associate Professor*
Hernandez, Rosalinda, *Assistant Professor*
Herrera, Alberto J., Assistant Professor
Lowe, Jerry, *Professor*
Mills, Shirley, *Assistant Professor*
Nevárez, Miguel, *Professor*
Munoz, Dolores, *Lecturer*
Menchaca, Velma D., *Professor*
Pankake, Anita, *Professor*
Roberts, Maria, *Assistant Professor*
Salinas, Alejo, *Lecturer*
Simonsson, Marie, *Associate Professor*
Watt, Karen, *Associate Professor*

General Overview

The Department of Educational Leadership offers a Doctor of Education (Ed.D.) degree in educational leadership, a Master of Education (M.Ed.) degree in school administration, a Principals Credential Program, and a Superintendents Credential Program.

All students pursuing a M.Ed. degree or a credential program in the Department of Educational Leadership must meet University, College of Education and department graduate admission requirements, successfully pass all course requirements, and pass a comprehensive written examination at the end of the program.

The faculty will act as an admission committee, reviewing each applicants file.

Masters Degree and Credential Programs

Master in Educational Administration

Specific Degree Requirements

Student must first meet all requirements for graduate admission to UT Pan American (see Page 17), as well as the other requirements listed below. Application for admission to the University must be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

Admission to the Master of Education Program

Students interested in a Master of Education degree in educational administration must have a bachelor's degree. To be admitted, the students must complete the following requirements.

Program Admission Requirements

1. Apply online through the Graduate Studies Web site and submit the following:
 - a. A letter of intent with the online application explaining why they are interested in pursuing a masters degree in educational administration
 - b. A résumé/vita.
 - c. A photocopy of your current teacher certificate.
2. Submit official transcripts of all undergraduate and graduate coursework.
3. Complete an on-site writing exercise:
 - a. Read and reflect on one of the articles as part of your preparation for the writing exercise. Check the department Web site for the articles.
 - b. Report to the campus on one of the designated dates for the writing exercise. Check the department Web site for the dates. (Meet at EDCC 3.226. The writing exercise will begin at 5 p.m., and writing assignment).
 - c. See the writing rubric for guidance on how to approach the writing assignment.

Program Description

The Master of Education degree in educational administration consists of 36 graduate credit hours.

The following courses need to be completed to earn a Masters degree.

EDUL	6300	Introduction to Research and Evaluation
EDUL	6333	Curriculum Development **
EDUL	6334	Instructional Leadership **
EDUL	6335	Leadership for Successful Schools **
EDUL	6337	Administration of Special Instructional Programs **
EDUL	6339	Organizational Leadership
EDUL	6367	Introduction to Statistical Methods and Data-Driven Decision-Making
EDUL	6369	Administrative Technology in Schools
EDUL	6384	Introduction to Educational Administration **
EDUL	6385	Public School Law **
EDUL	6388	Sociocultural Foundations of Education
EDUL	6392	School-Community Relations

** Core Courses

Students may be eligible for a Probationary Certificate after completing four of the six core courses (**).

Students may apply for the TExES after completing the six core courses (**).

Students must schedule their master's written comprehensive exam during the last semester of coursework, and apply for graduation at the Graduate Office 6-8 months prior to graduating. Students may substitute two courses for two thesis courses (EDUL 7300 and 7301). The student will meet with his or her adviser to determine which courses to substitute.

Principal Credential

Specific Degree Requirements

Student must first meet all requirements for graduate admission to UT Pan American (see Page 17), as well as the other requirements listed below. Application for admission to the University must be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

Admission

1. Students who are working on their Master of Education in educational administration from the Department of Educational Leadership and want to pursue the Principal Credential must apply to the Department for admission the semester they will graduate. Students working on a master's degree are not automatically admitted to the principal certification program. Students interested in being admitted to the principal program must apply through the UTPA Graduate Studies Web site and get all documentation to the department by a specific date (check website). Students will be notified by a specific date if admitted.

Students will take two courses (EDUL 6338 & EDUL 6393) and the internship, EDUL 6398. The courses are offered in the fall, spring, or summer; the internship is only offered in the fall and spring semester. Students must have a graduate 3.0 GPA or above and have completed two years of teaching experience to be considered. In addition to the online application, students must submit:

1. Three artifacts of demonstrated leadership during the past two years.
2. A photocopy of current teacher certificate.
3. A photocopy of the teacher service record. (These items are to be submitted to the Department Office in Room 1.514.)

2. Students who have a master's degree in a related area such as bilingual education, reading and counseling, or other related areas are also eligible to apply for the Principals Credential Program. Students interested in being admitted

to the principal program must apply through the UTPA Graduate Studies Web site and get all documentation to the department by a specific date (check Web site). Students will be notified by a specific date if admitted.

The Principal Credential Program consists of five courses and an internship. There are two options to acquire the Principal Credential Program. Each option has its set of criteria:

Option 1

In the Principal Credential Program, the five courses and the internship are taken in the traditional setting either in the fall or spring semester.

For Principal Credential Program (the 5 courses and the internship are taken in the fall or spring semester), students must have a graduate 3.0 GPA or above and have completed two years of teaching experience to be considered. In addition to the online application, students must submit:

1. Three artifacts of demonstrated leadership during the past two years.
2. A photocopy of current teacher certificate.
3. A photocopy of the teacher service record.
4. Applicants will be interviewed in May for the fall semester

(These items are to be submitted to the department office in Room 1.514.)

Option 2

In the Accelerated Summer Principal Credential Program, the five courses are taken in the summer over five weeks and the internship is taken the following fall or spring semester. Each course meets every day, Monday-Friday from 8-5 p.m.

For the Accelerated Summer Principal Credential Program (the 5 courses are taken in the summer over 5 weeks and the internship is taken in the fall or spring semester), students must have a graduate 3.5 GPA or above and must also have at least 5 years of teaching experience and/or a combined professional experience in public schools to be considered. Preference will be given to applicants with a 3.75 GPA or above. In addition to the online application, students must submit:

1. Three artifacts of demonstrated leadership during the past two years.
2. A photocopy of current teacher certificate.
3. A photocopy of the teacher service record.
4. A letter from a supervisor/principal indicating the applicant has potential for participating in the intensive summer program (only for summer program).
5. Applicants will be interviewed in March for the Summer program.

(These items are to be submitted to the department office in Room 1.514.)

Program Description

Students who have a master's degree in educational administration, will take the following required courses for the Principal Credential.

EDUL	6338	The School Principalship
EDUL	6393	Administration of School Staff Personnel
EDUL	6398	Internship for Principalship

Beginning January 1, 2008, students who have a master's degree in another area will take the following required courses for the Principal Credential.

EDUL	6330	Principles of Public School Leadership **
EDUL	6331	Curriculum and Instructional Leadership **
EDUL	6332	Instructional Support Programs and the Law **
EDUL	6338	The School Principalship **
EDUL	6393	Administration of School Staff Personnel **
EDUL	6398	Internship for Principalship

** Core Courses

The students will receive information regarding registration for the TExES and application for certification while enrolled in the internship.

Summer Programs

The department offers an Accelerated Program for the Principal Credential in the Summer. The required five courses listed above (EDUL 6330,6331,6332,6338,6393) are offered as five one-week courses during the month of July. The courses are rigorous and very intensive. The Internship course (EDUL6398) is to be taken in the following Fall or Spring semester. Students wishing to apply to this summer accelerated program must also submit a letter from a supervisor/principal, noting that the student is an applicant for the accelerated program and has potential for success in the intensive Summer program.

The department will offer a full complement of day and night courses during the summer terms.

Please Note: The Department of Educational Leadership does not follow the same summer schedule as the University. Typically Summer I begins on or about June 1 and ends on or about June 30. Summer II begins on or about July 1 and ends on or about July 31. Check with department on dates for next summer. A mini-term may be offered the last two weeks in May. (Check with the department office for the Schedule).

Eligibility Letter for Principal Probationary Certification

Student must formally request an eligibility letter for Principal Probationary Certification from the Office of Teacher Certification and Admissions Services, EDCC 1.302.

Step 1: Request and submit an application for the Eligibility Letter for Principal Probationary Certificate available in the Office of Teacher Certification and Admission Services. Submit with the application an official UTPA transcript, and a copy of the official degree plan. The student will be notified by a representative from the Office of Teacher Certification and Admission Services that the paperwork has been reviewed.

Step 2: Once notified, student can pick up Eligibility Letter. A Statement of Eligibility will be attached.

Step 3: If a student obtains a contract, the Statement of Eligibility must be signed by the school district, and the Department of Educational Leadership

Step 4: The Student should submit to the Office of Teacher Certification and Admission Services the certification application, and a completed and signed Statement of Eligibility

**Degree Credential Requirements:
Educational Leadership**

The educational leadership 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 36-hour master’s program (M.Ed.) and a 63-hour Doctor of Education degree is offered by the Department of Educational Leadership. A maximum of 12 hours may be transferred from an accredited institution or from another department at UTPA. See the sections on the program for further information.

Master of Education

Major: Educational Administration
Option: Thesis/Non-Thesis

Program Coursework		36 hours
EDUL 6300	Introduction to Research and Evaluation	
EDUL 6333	Curriculum Development	
EDUL 6334	Instructional Leadership	
EDUL 6335	Leadership for Successful Schools	
EDUL 6337	Administration of Special Instructional Programs	
EDUL 6339	Organizational Leadership	
EDUL 6367	Introduction to Statistical Methods and Data-Driven Decision-Making	
EDUL 6369	Administrative Technology in Schools	
EDUL 6384	Introduction to Educational Administration	
EDUL 6385	Public School Law	

EDUL 6388 Sociocultural Foundations of Education

EDUL 6392 School-Community Relations

Thesis 6 hours
If the thesis option is selected, students must consult with advisor and a degree plan developed that reflects the thesis option.

EDUL 7300 Thesis

EDUL 7301 Thesis

◆ Principal Credential Program for Students with a Master’s Degree in Educational Leadership or

Related Discipline

Once a student completes the Master of Education degree, the credential for the principalship requires additional hours. Below are the courses required if a student has a masters degree in a field other than Educational Leadership or School Administration. After the course and internship requirements are completed, the student must pass the state principal credential exam (TExES).

EDUL 6330 Principles of Public School Leadership

EDUL 6331 Curriculum and Instructional Leadership

EDUL 6332 Instructional Support Programs and the Law

EDUL 6338 The School Principal

EDUL 6393 Administration of School Staff Personnel

EDUL 6398 Internship in Principalship

◆ Superintendent Credential Program

The Principals Credential is required for entrance to the superintendent credential program. The student must then complete the 15 credit hours as outlined below. After the course and internship requirements are completed, the student must pass the state principal credential exam (TExES).

Superintendent Credential		15 hours
EDUL 7312	Social-Political Problems and the Superintendency	
EDUL 7314	The Superintendency	
EDUL 7315	Texas School Finance and Facilities Administration	
EDUL 7316	Ethics and Decision-Making in the Superintendency	
EDUL 7319	Internship for the Superintendency	

Course Descriptions

A listing of graduate courses offered by the Department of Educational Leadership can be found in the Course Descriptions section of this catalog beginning on Page 189.

Doctoral Program in Educational Leadership

The Doctor of Education (Ed.D.) degree awarded at The University of Texas-Pan American is one of two currently offered at UTPA. The program was chartered by the Texas Higher Education Coordinating Board in 1998 and positioned in the College of Education Department of Educational Leadership. The mission of the program is to improve educational and economic opportunities for the people of South Texas and the Rio Grande Valley.

Degree Program

The Doctor of Education degree emphasizes preparation for leadership careers in a variety of settings in the field of education. The program trains individuals to apply research and theory to practical problems. It enhances students management skills that assist them to exhibit informed leadership. The dissertation is expected to inform policy and practice towards the solution of important education and human development problems in a democratic society. The educational objectives of the program are:

1. To prepare professional individuals capable of achieving the highest levels of educational competence in daily practice.
2. To prepare outstanding academic and administrative leaders for educational agencies at the campus, district, county, regional, state and national levels, with emphasis on leadership skills required to educate minorities, particularly Hispanics.
3. To provide deeper understanding of the legal, financial and operational demands on the professional educator, as well as adequate historical and contemporary contexts that influence their role.
4. To provide an understanding of the theories and research methodologies that illuminate the significant role of the professional education practitioner.
5. To provide professional educators with problem solving and applied research skills.
6. To offer access to a doctoral-level program in educational leadership to all Rio Grande Valley citizens who have the qualifications and motivation to pursue it.
7. To assist in the formation of professionals who will serve in administrative and policy positions in order to enhance the educational and economic opportunities of persons who need the most development of their human potential.
8. To provide uniquely qualified leadership, teaching and research skills required to meet the special needs of the culturally diverse student population in this area.

Admission to the Ed.D. Program

To be considered for admission, the student must first meet all requirements for graduate admission to UT Pan American (see Page 17), as well as the other requirements listed below. Application for admission to the University must be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

The student must submit with the online application three letters of recommendation, a writing sample, and a curriculum vitae. Official transcripts from all colleges and universities attended will be filed with the UTPA Graduate Office.

The student, upon admission to the program, becomes a member of a doctoral cohort.

Standards for admission to UTPA's doctoral program in educational leadership are based on multiple sources of evidence of an applicant's qualifications and are comparable to those for doctoral programs in other disciplines and for educational leadership programs in other universities.

Criteria for admission to the program include:

1. A master's degree in educational leadership or related field,
2. Five years of experience in education or related field.
3. GPA of 3.0 or higher on all upper-division and graduate coursework.
4. GRE scores.
5. Statement of the applicant's professional experience and scholarly accomplishments.
6. Letters of recommendation from three professionals with knowledge of the personal and professional qualities of the applicant.
7. A sample of writing reflecting the applicant's professional goals and philosophy serving as evidence of English writing proficiency.
8. Evidence of experience in and commitment to work in Hispanic community settings.

Admission will be considered for applicants who do not meet the customary GPA/GRE or other requirements but whose credentials indicate a good probability of success in doctoral study.

Degree Requirements

A minimum of 63 semester hours of post-masters degree coursework, plus six semester hours of dissertation are required for the Doctor of Education degree at UTPA. Courses at the 6000, 7000 and 8000 level may be applied toward the degree. The majority of the coursework will be at the 8000 level. The degree plan will be structured as follows:

Semester Credit Hours

Research courses	9-12 hours
Core, Major courses	27 hours
Resource, Field-based courses	12 hours

Internship	3 hours
Electives	9-12 hours
Dissertation	6 hours

A maximum of 15 semester hours of relevant coursework may be transferred to the doctoral program and applied to the degree plan. No course with grade lower than B may be transferred.

In addition to these requirements, courses are offered at UTPA in a variety of fields which may be related to the doctoral students particular area of interest. Many graduate courses currently in UTPA's inventory may be used as supporting work. Students may choose from among those courses with the advice from their adviser in order to support their career and research goals.

Maximum Period for Completion

A student has a maximum of 10 years from the date of first entry into doctoral-level courses to complete the degree. Under special circumstances, an extension for an additional year may be granted by the students Doctoral Dissertation Committee. If a student exceeds the 10-year limit, the Doctoral Dissertation Committee will determine if the student will be permitted to continue in the program and what additional coursework or activities will be required to complete the degree.

Graduate Courses

The UTPA faculty offer the following courses. However, not all courses are taught each semester or summer session. Students should consult the UTPA Schedule of Classes, published before registration each semester, to determine which courses will be offered during a particular semester or summer session. This publication also may reflect changes that have been made to the courses listed below since the Graduate Catalog was printed.

Enrollment in the following courses is limited to students who have been admitted to the doctoral program. It is not possible to take one of these courses without the approval of the director of the Educational Leadership Doctoral Program:

Courses: EDUL 8301, EDUL 8302, EDUL 8303, EDUL 8304, EDUL 8305, EDUL 8306, EDUL 8307, EDUL 8320, EDUL 8321, EDUL 8322, EDUL 8323, EDUL 8123, EDUL 8223, EDUL 8323, EDUL 8330, EDUL 8134, EDUL 8234, EDUL 8334, EDUL 8336, EDUL 8341, EDUL 8343, EDUL 8344, EDUL 8350, EDUL 8351, EDUL 8353, EDUL 8381. *Dissertation Research:* EDUL 8390, EDUL 8690, EDUL 8990. *Dissertation Writing:* EDUL 8395, EDUL 8695 and EDUL 8995.

For further information and to obtain application materials, contact:

The University of Texas-Pan American
Director, Educational Leadership Doctoral Program
College of Education

1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: 956/316-7173
Fax: 956/381-2941

Web: www.utpa.edu/programs/eldp

Course Descriptions

A listing of doctoral courses offered by the College of Education can be found in the Course Descriptions section of this catalog beginning on Page 189.



COLLEGE OF HEALTH SCIENCES AND HUMAN SERVICES

General Overview

Recognizing the need for the University to take a leading role in the education of health care and human service professionals, the College of Health Sciences and Human Services, with the assistance and cooperation of regional facilities, is dedicated to providing educational programs necessary to meet the needs for competent health and human service professionals in the Rio Grande Valley, Texas, and the nation.

Mission

The College of Health Sciences and Human Services supports and facilitates the mission of The University of Texas-Pan American through academic programs of higher education, research and community service. The college is committed to enhancing the quality of life and health care in the Lower Rio Grande Valley binational border community and region. The faculty espouse a holistic multidisciplinary approach to meeting the educational needs of students and the dynamic health and human services needs of a diverse and multicultural society.

Dr. Bruce Reed, *Dean*

Health Sciences and Human Services West (HSHW)

Room 2.128/2.230

1201 W. University Drive

Edinburg, TX 78539-2999

Telephone: 956/381-2291

Fax: 956/384-5054

E-mail: bjreed@utpa.edu

On the Web: <http://www.utpa.edu/hshs>

Dr. Karen Chandler, *Assistant Dean*

Health Sciences and Human Services West (HSHW)

Room 2.230

1201 University Drive

Edinburg, TX, 78539-2999

Telephone: 956/381-2291

E-mail: kchandler@utpa.edu

Dr. Janice A. Maville, *Assistant Dean*

Health Sciences and Human Services (HSHW)

Room 2.230

1201 West University Drive

Edinburg, TX 78539-2999

Telephone: 956/381-2291

E-mail: jmaville@utpa.edu

Academic Programs

The College of Health Sciences and Human Services offers the Master of Arts degree in communication sciences and disorders, the Master of Science degree in rehabilitation counseling, the Master of Science in nursing degree, the Master of Science degree in occupational therapy, the Master of Science in social work degree, the Master of Science in physician assistant studies, a Ph.D in rehabilitation counseling, and the Cooperative Pharmacy Program with The University of Texas at Austin.

The College of Health Sciences and Human Services offers a Bachelor of Science in clinical laboratory science, communication sciences and disorders, dietetics, nursing, rehabilitative services and a Bachelor of social work degree. The Department of Rehabilitation also offers a minor in addiction studies as well as a minor in deaf studies.

Individual programs offered in the College of Health Sciences and Human Services have specific admissions requirements in addition to the University core curriculum requirements. Most programs also have requirements for student liability insurance, immunizations, and student criminal background checks. For specific information on these requirements, please see the major department, the advisement center, or the college web site. Curricula for these programs provide theory as well as practice-based learning experiences. The practice-experience components have University negotiated affiliation agreements with numerous health, human and social service facilities in South Texas and other regions.

Cooperative Pharmacy Program

Health Sciences and Human Services West (HSHW)

1201 W. University Drive, E-RAHC 1.100.00

Edinburg, TX 78539-2999

Telephone: 956/318-5255

Fax: 956/381-0663

Introduction

The University of Texas-Pan American, in cooperation with The University of Texas at Austin College of Pharmacy offers a six-year curriculum leading to the Doctor of Pharmacy (Pharm.D.) degree.

The Pharm.D. degree is the sole entry-level degree offered in the United States for those interested in becoming a licensed pharmacist. The Pharm.D. is a professional doctorate designed to prepare pharmacist practitioners to provide patient-oriented care in contemporary settings including, but not limited to, community practice, hospital environments and long-term care facilities.

The Cooperative Pharmacy Program (CPP) was developed to encourage students to consider pharmacy

as a career. The CPP offers students the opportunity to complete pre-pharmacy and pharmacy curriculum at UTPA and in the surrounding Rio Grande Valley. The CPP offers two pathways, an early admissions pathway intended for graduating high school students, and a transitional pathway for students enrolled as pre-pharmacy majors at UTPA. Students admitted into the CPP have conditional admission to the UT Austin College of Pharmacy. Final admission approval is afforded by UT Austin College of Pharmacy upon successful completion of pharmacy prerequisites and other CPP requirements.

UTPA students who are not admitted into the CPP, yet are interested in pursuing pharmacy as a career, may apply directly to UT Austin College of Pharmacy upon completion of the required pharmacy prerequisites. Please visit the CPP web site for additional information about the profession of pharmacy and links to the other Texas pharmacy programs.

Mission Statement

The mission of the Cooperative Pharmacy Program is to enhance the knowledge, health and well-being of the people we serve in concert with the mission, vision and values of both cooperating campuses of The University of Texas System through the recruitment, training and retention of proficient Doctor of Pharmacy trained pharmacists. The program will strive to encourage the provision of pharmaceutical care by cultivation of our graduates critical thinking skills and an appreciation for the need for life long learning. The program will foster the development of clinical and transitional research and clinical pharmacy services with other health care providers in the region, state and nation.

Accreditation

The Commission on Colleges of the Southern Association of Colleges and Schools accredits both The University of Texas-Pan American and The University of Texas at Austin. In addition, The University of Texas at Austin College of Pharmacy is accredited by the Accreditation Council for Pharmacy Education, 20 North Clark Street, Suite 2500, Chicago, IL 60602-5109, 312/664-3575, 800/533-3606; fax 312/664-4652; Web site: www.acpe-accredit.org. Only graduates of accredited programs are eligible to sit for the North American Pharmacist Licensure Examination™ (NAPLEX®) and Multistate Pharmacy Jurisprudence Examination® (MPJE®), both of which are required for licensure in the state of Texas.

Pharmacy Curriculum

The CPP is structured so that the students admitted into the program complete their first two years of pre-pharmacy requirements at UTPA, and then matriculate to UT Austin to complete their first two years of the pharmacy curriculum. Students then return to UTPA and the Rio Grande Valley

to complete their third and fourth years of the pharmacy curriculum.

Pre-Pharmacy Years 1 and 2 at UTPA

(see next section for details)

Years 1 and 2: Coursework in English, Mathematics and the Natural Sciences.

Pharmacy Curriculum Years 1 and 2 at UT Austin

Year 3: A broad foundation in physiology, pathology, pharmaceutical sciences and pharmacy administration.

Year 4: An interdisciplinary approach to disease management and patient care through case-based learning.

Pharmacy Curriculum Years 3 and 4 at UTPA and in the Rio Grande Valley

Year 5: Advanced coursework in disease management and patient care.

Year 6: Calendar year consisting of seven six-week experiential rotations at pharmacy practice sites around the Rio Grande Valley.

Pre-Pharmacy Course Requirements

The following is an overview of the pre-pharmacy curricular requirements for the CPP and UT Austin College of Pharmacy. Individual degree plans will be developed for students admitted into the CPP.

Natural Sciences		36 hours
BIOL	1401	General Biology
		OR
BIOL	1487	Honors Biology
BIOL	1402	General Biology
		OR
BIOL	1488	Honors Biology
BIOL	3401	Microbiology
BIOL	3413	Genetics
CHEM	1301	General Chemistry I
		AND
CHEM	1101	General Chemistry Lab I
CHEM	1302	General Chemistry II
		AND
CHEM	1102	General Chemistry Lab II
CHEM	2302	Organic Chemistry I
		AND
CHEM	2102	Organic Chemistry I Lab
CHEM	2303	Organic Chemistry II
		AND
CHEM	2103	Organic Chemistry II Lab
PHYS	1401	General Physics
Mathematics		7 hours
MATH	1460	Calculus I
		OR
MATH	1487	Honors Calculus I
MATH	2330	Survey of Elementary Statistics

		OR	
MATH	3337	Applied Statistics I	
English		9 hours	
ENG	1301	Composition	
		OR	
ENG	1387	Honors Rhetoric and Composition	
ENG	1302	Rhetoric	
		OR	
ENG	1388	Honors Rhetoric and Literature	
		AND ONE OF THE FOLLOWING	
ENG	2300	Introduction to Literature	
ENG	2303	Introduction to American Literature	
ENG	2305	Introduction to British Literature	
ENG	2307	Introduction to World Literature	
ENG	2387	Honors Readings in World Literature	
		OR	
ENG	2388	Honors Readings in World Literature	
Political Sciences		6 hours	
POLS	2313	United States and Texas Government and Politics	
		OR	
POLS	2387	Honors United States and Texas Government and Politics	
POLS	2314	United States and Texas Government and Politics	
		OR	
POLS	2388	Honors United States and Texas Government and Politics	
History		6 hours	
HIST	2313	American Heritage I	
		OR	
HIST	2387	Honors American Heritage I	
HIST	2314	American Heritage II	
		OR	
HIST	2388	Honors American Heritage II	
Electives		6 hours	
	Social and Behavioral Sciences		3 hours
	Arts and Humanities		3 hours
Total			70 hours

All CPP students will be required to take the Pharmacy College Admission Test (PCAT) prior to matriculating to UT Austin College of Pharmacy. PCAT score expectations and other additional CPP requirements will be discussed with the students upon admission.

Admission to the Cooperative Pharmacy Program

Please refer to the CPP Web site for admissions requirements and application materials. The CPP Web site is easily accessible through the College of Health Sciences and

Human Services Web site at <http://www.utpa.edu/hshs/>.

The CPP Web site also contains faculty and staff contact information along with other resources.

Communication Sciences and Disorders

Dr. Teri Mata-Pistokache, *Department Chair*
Health Sciences and Human Services West (HSHW)

Room 1.264

1201 W. University Drive

Edinburg, TX 78539-2999

Telephone: 956/316-7040

Fax: 956/318-5238

E-mail: tmpistok@utpa.edu

Graduate Faculty

Ayala, Kara, *Assistant Professor*

Mata-Pistokache, Teri, *Associate Professor*

Wang, Bailey Kehching, *Associate Professor*

Purpose

The Master of Science in Communication Sciences and Disorders program is designed to prepare graduates for the Clinical Fellowship Year (CFY), the Certificate of Clinical Competence in Speech Language Pathology (CCC-SLP) from the American Speech-Language-Hearing Association (ASHA), a license for the state of Texas, and eventually independent clinical practice in the profession of speech-language pathology.

Scope

The Master of Science degree in communication sciences and disorders is a clinical and academic degree. Students must possess a bachelor's degree in communication sciences and disorders to apply to the master's program. The graduate curriculum includes extensive supervised clinical practice, as well as coursework in the following areas:

- Research in communication disorders.
- Multicultural issues.
- Normal speech-language development across the life span.
- Procedures for diagnosing and assessing disorders of articulation and phonology, language, fluency, swallowing and voice in children and adults.
- Procedures for addressing the intervention needs of individuals with disorders of articulation and

phonology, child and adult language, fluency and voice and swallowing.

- Procedures for audiological screening, assessment and interpretation of audiological test results.

Admission to the Master’s Program in Communication Sciences and Disorders

To be admitted to the graduate program in communication sciences and disorders, prospective candidates must first meet all requirements for graduate admission to UT Pan American (see page 17), as well as the other requirements listed below. Application for admission must be submitted online prior to the published deadline; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

Undergraduates with the bachelor’s degree in COMD must have completed the following courses, or courses equivalent to the following, through an accredited program in speech-language pathology.

COMD 2310	Intro to Speech-Language Pathology
COMD 2320	Phonetics
COMD 3315	Anatomy and Physiology of the Speech and Hearing Mechanism
COMD 3310	Normal Language Development
COMD 3330	Articulation Phonological Disorders
COMD 3340	Audiology I
COMD 3350	Speech Science
COMD 3360	Neuroanatomy
COMD 4330	Aural Rehabilitation
COMD 4360	Language Disorders in Children
COMD 4390	Principles of Assessment

Degree Requirements

Required Academic Coursework 39 Hours

Required Clinical Practicum 19 Hours

Total Hours Required 58 hours

COMD 6180	Audiology Practicum (one registration)
COMD 6301	Clinical Practicum I: Speech Pathology
COMD 6302	Clinical Practicum II: Speech Pathology
COMD 6303	Clinical Practicum III: Speech Pathology
COMD 6304	Clinical Practicum IV: Speech

	Pathology
COMD 6310	Research in Communication Disorders
COMD 6320	Speech-Language and Hearing Science
COMD 6325	Childhood Language Disorders and Clinical Intervention
COMD 6330	Fluency Disorders
COMD 6335	Language Disorders in Adults
COMD 6340	Phonological Assessment and Intervention
COMD 6345	Voice Disorders
COMD 6350	Audiology II
COMD 6355	Normal and Abnormal Language Development of Culturally Diverse Populations
COMD 6370	Seminar in Speech Language Pathology
COMD 6365	Language Assessment of Culturally and Linguistically Diverse Populations
COMD 6385	Dysphagia
COMD 6395	Advanced Clinical Practicum (two registrations: Fall, Spring)
COMD 6397	Augmentative Alternative Communication

Practicum

All students must enroll in Clinical Practicum each semester during the first year (fall, spring, summer I, summer II). A minimum of one semester of COMD 6180 (Audiology Practicum) and a minimum of two semesters of COMD 6395 (Advanced Clinical Practicum) are required. Per ASHA requirements, at least 375 clock hours of supervised clinical practice and 25 hours of clinical observation must be completed and documented in conjunction with the practicum courses. These requirements are subject to change based on changes by the ASHA for certification.

Written and Oral Comprehensive Exams

Written comprehensive exams are required for the master’s degree. However, should a student successfully complete the PRAXIS exam in Speech Language Pathology, written examinations will be waived. The PRAXIS and/or the written comprehensive exam should be completed in the final year of the student’s graduate studies.

Graduate Thesis Option

Those who choose thesis must register for COMD 7300 during each semester of thesis work. Only three thesis credits may be counted toward graduation requirements. Students electing the thesis option must successfully defend the thesis.

Course Descriptions

A listing of graduate courses offered by the Department of Communication Sciences and Disorders may be found in the Course Descriptions section of this catalog beginning on page 177.

Nursing

Dr. Carolina Huerta, *Department Chair*
Health Sciences and Human Services East (HSHE)
Room 2.192
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: 956/381-3491
Fax: 956/384-2875
E-mail: chuerta@utpa.edu

Dr. Janice A. Maville, *MSN Coordinator*
Health Sciences and Human Services East (HSHE)
Room 2.106
Telephone: 956/381-3497
E-mail: jmaville@utpa.edu

Graduate Faculty
Bautista, Betty, *Lecturer*
Guzman, Penny, *Clinical Specialist*
Huerta, Carolina, *Professor*
Nieto, Beatriz, *Assistant Professor*
Maville, Janice A., *Professor*
Otto, Debra, *Assistant Professor*
Rodriguez, Melinda, *Lecturer*
Sullivan, Pamela, *Assistant Professor*

General Overview

The Department of Nursing offers courses leading to the Master of Science in Nursing. Clinical specializations in adult health or family nurse practitioner, educator, or nurse practitioner are available.

Mission

The curriculum in the UTPA Master of Science in Nursing Program is designed to facilitate the accomplishment of the mission of the Department of Nursing:

The nursing department supports the mission of the College of Health Sciences and Human Services through programs that educate individuals to meet the health care

needs of a culturally diverse society. These programs facilitate the development of competent practitioners with critical thinking skills to provide holistic nursing care to individuals, families, aggregates and communities. A commitment of fostering research and service that enhance health promotion, maintenance and restoration is integral to the mission of the nursing department.

The curriculum assumes an undergraduate base in nursing, physiology, pharmacology and health assessment. There are five major concepts integrated throughout:

1. Nursing as a critical thinking process.
2. The individual as a holistic being.
3. Health as a process.
4. Society as multicultural.
5. Education as a facilitator of change.

Nursing in advanced practice uses a theory and research-based nursing process to deliver and/or manage client care. Nursing focuses on a critical thinking process founded on concepts and principles leading to creative and intellectual processes.

The holistic individual is composed of integrated physiological, psychological, spiritual, cultural and social needs. In recognition of the dynamic nature of these health needs, the nurse in advanced practice uses a holistic approach to critically evaluate and conceptualize care based upon an expanded knowledge base. Using the holistic concept in the curriculum differentiates nursing from other health professions by virtue of its approach to the entirety of individuals and health.

Since the health status of an individual group is a changing phenomenon, it may be viewed as a process. In this process, individuals and groups respond to multiple stimuli by maintaining their present health status, moving toward increased wellness or moving toward increased illness.

Society is composed of groups of individuals interrelating with one another, each from diverse cultural, ethnic and environmental settings. Culture is composed of the values, behaviors, beliefs and ideas shared by a group of individuals within a society. The presence of many social groups, each with its unique culture, makes society multicultural.

Education facilitates change as evidenced by intellectual and professional growth. The graduate learning environment incorporates the principles of adult learning to promote the development of advanced critical thinking and intercollaborative skills that may be used in conceptualizing, synthesizing and evaluating management of nursing and health care problems.

Upon completion of the master's in nursing program, graduates have been provided the opportunity to enable themselves to:

1. Function as a scholar clinician with critical thinking skills.
2. Synthesize theories from natural, behavioral and social sciences to support advanced clinical nursing and role development.
3. Evaluate the use of nursing theories as a base for advanced practice
4. Participate in, evaluate and use research to promote

the body of nursing knowledge.

5. Practice at the beginning level in an advanced nursing role by:

a. Demonstrating critical thinking and diagnostic reasoning skills in clinical decision-making in the identification, evaluation and management of health needs of clients.

b. Demonstrating development of a healing nurse-client relationship.

c. Reflecting competency in the teaching-counseling aspects of practice.

6. Demonstrate cultural competence in meeting the dynamic health needs of the international, multicultural and multilingual society of the Rio Grande Valley.

7. Demonstrate beginning competency in the organizational and work role aspects of advanced practice.

8. Function as a nursing leader in professional association activities, health policy formation, and legislative and regulatory issues.

9. Function as a multidisciplinary collaborator in the assessment, planning, implementation and evaluation of health care.

10. Demonstrate preparation for continuing education in formal and informal programs of study.

The Master of Science in Nursing Program is accredited by the Commission on Collegiate Nursing Education (One Dupont Circle, NW, Suite 530, Washington, D.C. 20036-1120, 202/887-6791).

Requirements for Admission into the Master of Science in Nursing Program

In order to be admitted to the Master of Science in Nursing Program, the student must first meet all requirements for graduate admission to UT Pan American (see page 17), as well as the other Department of Nursing requirements listed below. Application for admission to the University must be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

Applications are accepted throughout the year. The formal deadline, however, is April 1 (or the first previous business day if April 1 is a weekend date) for the next academic year beginning each fall semester. Admissions for Spring semester and summer sessions are based on space availability.

Clear Admission

To qualify for clear admission, an applicant must have:

1. A bachelor's degree in nursing from an accredited program.
2. Current licensure as a registered nurse in Texas.
3. Grade point average of 2.75 or above on a 4.0 scale in the last 60 hours attempted.
4. A basic statistics course.

5. Three satisfactory academic and/or professional references (may be submitted through the online application system).
6. Approval of the MSN Student Development Committee.
7. Immunization records showing freedom from active tuberculosis and immunity to hepatitis B (upon admission to the program).
8. A clear criminal background check.

Conditional Admission

An applicant with a bachelor's degree from an accredited institution may be granted conditional admission to the graduate school if the applicant does not meet clear admission requirements, but has a 2.5 to 2.99 graduate admission GPA, and provides the graduate office with a letter from the program director or program chair, signed by the dean of the college, requesting a waiver of the clear admission graduate GPA. An applicant granted conditional admission may not enroll for more than 12 graduate hours total. The student must be accepted into a graduate degree program within this 12-hour time period or future registration will be put on hold. A student with conditional admission who earns any graduate grade of less than a B will be denied further admission to the graduate school until such time that the requirements for clear admission are met. At the end of the semester in which a conditional students graduate GPA is 3.0 or better with no grade less than a B, the students 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 nursing program other than the UTPA graduate nursing program. Students who obtain permission may enroll in selected courses at UTPA 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-masters 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 Office of Graduate Studies, meeting deadlines for admission. Application for admission to the University must be submitted online; the application is available at www.utpa.edu/gradschool.
2. Submitting a letter of application to the Department of Nursing.

3. Submitting official transcripts to the Office Graduate Studies verifying a bachelor’s degree in nursing.
4. Obtaining acceptance by the Master of Science in Nursing Student Development Committee.
5. Presenting immunization records showing freedom from active tuberculosis and immunity to hepatitis B.

Students admitted under the non-degree status may write to the Master of Science in Nursing Student Development Committee and apply to the graduate program. At the time the application is reviewed, the student must have provided an official transcript, reference letters, evidence of current licensure as a registered nurse in Texas and evidence of meeting the statistics and physical assessment requirements. Furthermore, the application letter should include a petition of 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 masters degree in nursing.

Transfer Admission

Transfer admission will follow University guidelines. A maximum of nine graduate hours may be accepted following review 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 500 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 Foreign Credentials Service of America.
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

The general requirements for the masters in nursing are as follows:

1. A degree plan approved by the Master of Science in Nursing Program coordinator.
2. Satisfactory completion of all courses within five years of admission.
3. Satisfactory completion of the thesis or non-thesis option.

MSN Curriculum for Adult Health Specialization

Required	Courses	31 hours
NURS	6301	Theoretical Foundations in Nursing
NURS	6302	Research in Nursing
NURS	6303	Statistics in Nursing
NURS	6304	Advanced Pathophysiology in Nursing

NURS	6305	Advanced Health Assessment
NURS	6306	Pharmacology for Advanced Nursing Practice
NURS	6208	Nursing Informatics
NURS	6209	Professional Nursing Issues
NURS	6310	Advanced Practice: Health Promotion
NURS	6322	Advanced Adult Health II
NURS	6323	Advanced Adult Health III

Functional Role Courses 6 hours
Select one of the following sequences:

Clinical Specialist		
NURS	6341	Advanced Practice I
NURS	6342	Advanced Practice II
Educator		
NURS	6343	Educator I
NURS	6344	Educator II

Thesis Option		6 hours
NURS	7300	Thesis I (Proposal)
NURS	7301	Thesis II

Non-Thesis Option		6 hours
NURS	7302	Practice Intervention Project Graduate Elective

Program Total 43 hours

MSN Curriculum for Family Nurse Practitioner

Required Courses		45 hours
NURS	6301	Theoretical Foundations in Nursing
NURS	6302	Research in Nursing
NURS	6303	Statistics in Nursing
NURS	6304	Advanced Pathophysiology in Nursing
NURS	6305	Advanced Health Assessment
NURS	6306	Pharmacology for Advanced Nursing Practice
NURS	6307	Health Care Policy, Organization and Financing
NURS	6208	Nursing Informatics
NURS	6209	Professional Nursing Issues
NURS	6310	Advanced Practice: Health Promotion
NURS	6311	Advanced Practice: Rural Health Nursing
NURS	6612	Advanced Practice: Family Nurse Practitioner I
NURS	6613	Advanced Practice: Family Nurse Practitioner II
NURS	6247	Role Development for the Nurse Practitioner

Thesis Option		6 hours
NURS	7300	Thesis I (Proposal)

NURS 7301 Thesis II

Non-Thesis Option	3 hours
NURS 7302 Practice Intervention Project	

Program Total	48-51 hours
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Course Descriptions

A listing of graduate courses offered by the Department of Nursing can be found in the Course Descriptions section of this catalog beginning on page 226.

Occupational Therapy Program

Dr. Shirley Wells, *Interim Chair*
 Health Sciences and Human Services East (HSHE)
 Room 1.130
 1201 W. University Drive
 Edinburg, TX 78539-2999
 Telephone: 956/381-2475
 Fax: 956/381-2476
 E-mail: wellssa@utpa.edu
 Web site: <http://panam.edu/dept/occtherapy>

Graduate Faculty
 Hadlock, Tana, *Clinical Assistant Professor*
 Pfeifer, Teresa, *Assistant Professor*
 Schultz, Celia, *Assistant Professor*
 Scoggin, Angela, *Professor*
 Wells, Shirley, *Associate Professor*

Mission

The Department of Occupational Therapy supports the mission of UTPA by preparing graduate-level professionals capable of meeting the challenges of health care and community environments and the unique needs of growing international and multicultural populations of the South Texas region. Faculty and students engage in and promote scholarly inquiry and service which support the health and wellness of the community. The preservation, transmission and creation of knowledge results in exemplary and caring practice. Graduates are prepared to assume the roles of lifelong learners, innovators and leaders in the state, nation and world communities.

Philosophy

Human occupation is defined as doing culturally meaningful work, play or daily living tasks in the stream of time and in the contexts of ones physical and social world (Kielhofner, 1995, p.3). The individual is served as an occupational being throughout the life space and within the context of culture. The individual is a whole being, integrating mind, body and spirit, who is inherently healthy, and lives on a continuum from wellness to disability. Occupation is essential to health and life itself.

Ones perceptions of health, illness and occupation are shaped by culture. Adaptation is fundamental to a cultures survival and adaptation through occupation is fundamental to an individuals survival. Although individuals are shaped by the culture(s) in which they were socialized, they are able to adapt to new and different cultures. The culture of individuals and communities are constantly blending, changing and evolving to create new and different environments for human beings to interact and engage in occupation.

Occupation, making lives, making worlds (Peloquin, 1997), is our primary conceptual framework. Occupation gives organization to life, provides life meaning and influences health. Occupational performance engages the whole person, is reflective of mind, body and spirit, and impacts relationships, culture and society. Life transitions may be illness, disability, retirement, moving from school to work, disasters or living through other life events. Occupational therapy addresses the complexity of human occupation when normal or satisfying occupational patterns have been disrupted. Therapist and client collaborate in setting goals that will bring meaning to everyday life for that individual and help to establish meaningful occupation. Learning to manage daily tasks such as work, play and leisure are highly individual goals and mean not only task completion, but also requiring the remaking of ones life following the transition. Thus, the individuals desired roles in life (the ability to make a living, make a home, make a family, make friends and to make a life) should become the first and primary concern of any graduate of this program. Demonstration of abilities and performance of actions, tasks and occupations are seen as the vehicle for fulfilling these roles (Christiansen & Baum, 1997).

The health of individuals within communities, such as in family-centered and client-centered care, also shapes the community. Focusing on the health issues of the community, and groups within a community, will lead to health and life satisfaction through engagement in occupation. Occupation facilitates organization of systems toward improved health for individuals and communities. Occupational therapy can help to shape community systems in such a way that the quality of life is improved for the community as a whole. For example, addressing the issue of unemployment as a common basis for homelessness, might address deficits in local policies as well as issues of social justice. The idea of occupation as explicated by the curriculum would enable patient-agents and others to receive essential services, relevant to important human issues such as survival, contribution, competence, health and the quality of daily life experiences. (Yerxa,

1998, pg 370-371). Engagement in occupations influences an individual's health and the experience of individual occupations and their blend shapes, in part, a person's perception of the quality of life (Yerxa, 1998, pg 367).

References

- Christiansen, C. & Baum, C. (1997). Person-environment occupational performance. Christiansen & C. Baum (Eds.) Occupational performance-enabling Function and Well-being. (pp 46-70). Thorofare, NJ: SLACK Incorporated.
- Kielhofner, G. (1995). A Model of Human Occupation (second edition). Baltimore, MD: Williams & Wilkins.
- Peloquin, S.M. (1997). Nationally speaking-the spiritual depth of occupation: Making worlds and making lives. *American Journal of Occupational Therapy*, 51, 167-169.
- Yerxa, E.J. (1998). Occupation: The keystone of a curriculum for self-defined profession. *American Journal of Occupational Therapy*, 52, pg. 365-372.

Admission to the Master of Science in Occupational Therapy Program

Early Admission Deadline - December 31

Final Admission Deadline - May 31

To be eligible for admission to the Master of Science program in Occupational Therapy, applicants must:

- Have a Baccalaureate degree from an accredited college or university. A degree in any area of study will be accepted.
- Complete all prerequisites. You may apply to the MSOT program before completing all prerequisites; however, all prerequisites must be completed by the final admission deadline. The MSOT program begins in the fall semester of each year.
- Take the Health Occupations Aptitude Examination.
- Apply for admission to the Graduate School of UT Pan American before applying to the Occupational Therapy program at www.utpa.edu/gradschool. This must be current.
- Complete the Master of Science in Occupational Therapy application online. Be sure and save your work. Once everything is complete then click the submit button. We will not receive your application until you click on submit. This must be current. If not, the application may not be considered.
- The applicant must provide three references (recommendations). Please submit online through the Graduate Office.
- The applicant must provide a Personal Statement (Statement of Purpose). Please submit online through the Graduate Office.
- Complete FERPA Consent Form

A. Graduate School Admission to MSOT

In order to be admitted to the MSOT, the student must first meet all requirements for admission to the Graduate School of UT Pan American (see page 17), as well as the other requirements listed below. Application for admission must be submitted online; the application is available at www.utpa.edu/gradschool. Please save your work until you are ready to submit. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

All students applying for admission to the MSOT are required to attach or request the following through their online application:

1. Three letters of recommendation. The applicant will add the recommenders to the recommendation section of the online application and they will be instructed on how to submit their recommendation online. See E below for further Instructions.
2. Personal statement (statement of purpose), See F below for further instructions.

Applicants must have a 3.0 GPA to be eligible for admission to the MSOT program.

B. Official Transcripts

An official transcript of all college and university work must be submitted directly to the UTPA, Office of Graduate Admissions.

C. Prerequisite Courses

Applicant must show evidence of satisfactory completion of the following courses. Prerequisite courses taken five years prior to the May 31 deadline will not be considered.

Anatomy & Physiology I & II (lecture & lab)	8 credit hours
Basic Statistics	3 credit hours
Psychology of Lifespan	3 credit hours
Abnormal Psychology	3 credit hours
Medical Terminology	1, 2, or 3 credit hours

- If there are questions about prerequisites, then fax or email course descriptions, word-for-word catalog description of courses, or syllabi to the OT Department. The fax number is 956/381-2471 or email at rochae@utpa.edu. Be sure to provide your contact information.

- Waiver(s): A waiver and/or substitution of any required prerequisite course may be petitioned to the Chair of the Admission Committee. You may do this by providing your contact information, forwarding a copy of the course catalog or syllabus and transcripts to the OT department. (Fax: 956-381-2476; email: rochae@utpa.edu)

D. Health Occupations Aptitude Examination

The Health Occupations Aptitude Examination assesses an individual's readiness and capability for successful completion of an educational program designed to prepare qualified health care personnel. It includes five separate tests that measure ability, skills, knowledge and attitudes important for success in the program and career, choice. Contact the University Testing Services at (956) 292-7584 for information regarding cost and availability of the examination. Study material for the exam can be found at www.psbtests.com. This exam may only be taken once per admission year.

E. Letters of Reference

Reference letters will now be submitted electronically through the online application system available via the graduate office web site (www.utpa.edu/gradschool). Please follow the instructions provided as you complete the online application.

Your references should be people who can evaluate your ability and potential for Graduate education and professional practice.

If you have graduated in the last three years, one academic reference must be submitted. Letters from college or university instructors in your major from whom you have taken courses are preferred. Letters from such instructors, which are part of a college or university placement file, may be used if they address your potential for graduate study.

For those who have been out of college for three years or more, you may submit a reference from persons who have known and worked with you in a professional capacity.

At least one reference concerning your employment or volunteer experience must be included. Appropriate recommendations include a reference from an immediate supervisor or another person to whom you have been responsible or who was familiar with your work.

Please note the statement concerning the Family Education Rights and Privacy Act of 1974 that appears on the top of each form. Please read this statement carefully, choose one of the alternatives offered.

F. Personal Statement (Statement of Purpose)

Applicant must submit a 1,000 word essay **online** discussing his/her interest in occupational therapy. This essay must be typewritten, double spaced, and grammatically correct. Be sure to include your name on the cover page, and all subsequent pages. The statement must address all three parts of the questions as outlined as below:

Part I

A. Why are you seeking a graduate degree in

occupational therapy at this time? Why have you chosen to apply to the UTPA Department of Occupational Therapy?

B. What specific career goals and aspirations do you have following graduation from the Masters of Science in Occupational Therapy Program? Discuss your understanding of the occupational therapy professions, values and mission.

Part II

A. Discuss the personal, vocational, and educational experiences that have helped define your choice of occupational therapy as a field of graduate study. Include all relevant practical and volunteer experience

B. Examine your personal strengths and challenges. Explain how your personal characteristics support, inhibit, and generally influence your ability to pursue graduate study and establish a career in occupational therapy. Discuss your understanding of and experience with diverse populations (beyond the Hispanic group).

Part III

A. Discuss what you believe to be the most important current issues in health care and occupational therapy that are of interest to you and why.

G. FERPA Consent Form

The admissions committee is composed of OT faculty and OTs from the community. Please sign the consent form allowing the OTs from the community to evaluate your application. If you do not wish to release your information please indicate this on the consent form. This will not affect the evaluation of your application. Form may be downloaded from the MSOT web site at www.panam.edu/dept/occtherapy. Signed form may be faxed to 956-381-2475.

Selection and Notification Process

The Occupational Therapy Admissions Committee meets as soon as possible after the deadline to review each application. If required, the Chair of the Admission Committee notifies the applicant via phone or letter for an interview. Once selections have been made, the Department of Occupational Therapy will send written notification to all applicants indicating whether or not they have been accepted. No information regarding the status of an applicant is given over the phone. Once a selection is made, the status of your application will be available online at www.utpa.edu/gradschool.

In keeping with the UTPA policy, the Department of Occupational Therapy Admission Committee does not discriminate against any individual on the basis of race, color, creed, religion, origin, sex, age, disability, veteran status, previous major of college attended.

BE ADVISED:

1. This program is a day program.
2. The MSOT application must be current. That is the application must have the year for which you are applying. A 2008 application may not be submitted for 2009. You must reapply. You may e-mail the department manager if you wish references or other information on an old application be forwarded to a new application
3. Applicants who acknowledge a felony conviction should be aware that the National Board for Certification in Occupational Therapy (NBCOT) might bar persons with a felony record from taking the certification examination. The Texas Board of Occupational Therapy Examiners (TBOTE) may deny persons with a felony record a state license to practice. For information regarding their requirements for certification following graduation, please contact:
 - National Board for Certification in Occupational Therapy (NBCOT)
<http://www.nbcot.orQ>
 - Texas Board of Occupational Therapy Examiners (TBOTE) <http://www.tbote.org>
4. Some personal information may need to be disclosed during the educational experience. For example, the information may be required by a clinical education site or licensing board. Prior notification will be given to the students.
5. Many fieldwork sites require criminal background checks on all people who render services at the facility including students. These sites may deny access to their facility based on the background check.
6. This program is accredited by The Accreditation Council for Occupational Therapy Education (ACOTE), 4720 Montgomery Lane, Bethesda, MD 20824-1220, and (301) 652-2682.

Please send all required documents not submitted online other than transcripts to:

University of Texas-Pan American
Department of Occupational Therapy
HSHE 1.130
1201 W. University Drive
Edinburg, TX 78539-2999
www.utpa.edu/gradschool

Course Descriptions

A listing of graduate courses offered by the Master of Science in Occupational Therapy Program can be found in the Course Descriptions section of this catalog beginning on page 228.

PHYSICIAN ASSISTANT STUDIES

Frank Ambriz, *Program Chair*
Health Sciences and Human Services West (HSHE)
Room 2.142
1201 W. University Drive
Edinburg, Texas 78539-2999
Telephone: 956/381-2298
Fax: 956/381-2438
E-mail: pastudies@utpa.edu
www.utpa.edu/dept/pasp

Full-time Faculty
Ambriz, Frank, MPAS, PA-C,
Department Chair,
and Assistant Clinical Professor
Baker, Willard, MMS, PA-C, *Assistant Clinical Professor*
Farooqi, Mohammed, PA-C, *Assistant Clinical Professor*
Kuhn, Lisa, MMS, PA-C,
Assistant Clinical Professor
and Academic Coordinator
Koo, Felix, M.D., Ph.D.,
Assistant Clinical Professor
and Clinical Coordinator
Tavarez, Hiram, M.D., *Medical Director*
Villarreal Jr., Elias, PA-C,
Assistant Clinical Professor
and Director of Admissions
Runyan, Jack, PA-C, Ph.D., *Assistant Clinical Professor*

General Overview

The Physician Assistant Studies Program (PASP) within the College of Health Sciences and Human Services offers a 28-month professional curriculum leading to the Master of Science degree in Physician Assistant Studies.

The Physician Assistant Studies Program is designed to empower the student the opportunity to develop the competencies necessary to practice as an assistant to the primary care physician as defined by the American Academy of Physician Assistants. The graduate will be prepared to assist the physician in multiple and complex tasks directly related to health and medical care; interviewing, examining, compiling and evaluating medical data; treatment; follow-up care; maintaining a continuity of communications and observations; and coordinating other health-related personnel. Within the defined standards, the graduate may be called upon to carry out duties and responsibilities specifically assigned to him or her. The graduate physician assistant remains directly responsible to the physician-supervisor/employer, who retains complete control over the management of the patient.

Prerequisites

Although the pre-professional course of study may be accomplished at any accredited junior college, senior college or university, it is preferred that all science courses be taken at a senior college and/or university. All prerequisite coursework must be completed by the application deadline for that year's admissions cycle. Applicants should review the Prerequisite Equivalency Sheet for their respective college at <http://www.utpa.edu/dept/pasp> for detailed course requirements tailored to their particular college and/or university. Coursework must include the following:

Course Hours

Science	
Advanced/upper-level biology	6
Organic Chemistry with lab or Biochemistry with lab	4
General Microbiology with lab	4
Anatomy and Physiology with labs	8
Math	
Statistics	3
Humanities	
General Psychology	3
Total	28

NOTE: The above prerequisites represent the minimum prerequisites courses and hours. Classes begin annually every fall semester.

The Admissions Process

Phase I The Application

In order to be admitted to the Master of Physician Assistant Studies program, the student must first meet all requirements for admission to the Graduate School of UT Pan American (see page 17), as well as the other requirements listed below. Application for admission must be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office. All applications and supporting materials are due on Dec 31 of every year.

In addition to completing the online application, each applicant must submit the following by the application deadline:

1. Copies of all transcripts and foreign evaluations
2. Shadowing Log Form(s) documenting 50 hours minimum of shadowing.

Minimum Academic Requirements for Application

1. Minimum GPA of 3.0 on a 4.0 scale is required in the following areas:

- All Science coursework.
- Last 60 hours of coursework.
- Overall GPA.

2. Completed bachelors degree.

3. Completed all prerequisite coursework by the application deadline.

4. Completed Foreign Degree Translation/Evaluation by the Foreign Credential Service of America at <http://www.fcsa.biz>.

Phase II Application Review

The basis for inviting an applicant for interview is competitive. It includes the applicant's academic performance represented by coursework, grades and the three CPA calculations discussed in the previous section. In addition, application review includes, but is not limited to, consideration of non academic qualifications listed below (listed in no particular order of preference or weight):

- Awards and honors
- Health care experience
- Knowledge of and commitment to the PA profession
- Leadership
- PA shadow time
- Primary care/South Texas-oriented
- Research background
- Scholastic achievements
- Service/volunteerism
- Work experience

Phase III The Interview

Admissions interviews are granted by invitation only. Applicants are selected for interviews based on a holistic evaluation of the entire application and supporting materials. Application file review occurs through the entire month of January. Approximately 70-100 applicants or more are invited for an interview during the months of February and March. Two panel interviews are required for every applicant. Typically, interviews are 15-20 minutes in duration with each panel comprised of three PASP faculty, practicing PAs and other important PASP stakeholders. Each interviewer asks questions to assess the applicants knowledge of the PA profession, motivation and commitment, maturity, intellectual curiosity, interest patterns, interpersonal skills and academic history.

Phase IV Admission

At the conclusion of all interviews, the admissions committee (comprised of the PASP faculty, medical director and representation from administration) meets to review all

applicants who were interviewed. Thirty to forty candidates are selected for admission. Additionally, applicants are selected and ranked as alternates. The number of seats offered for admission may vary from year to year.

All applicants will be sent a letter notifying them of their status.

Professional Course of Study

The professional curriculum, six semesters in length, begin each Fall:

Didactic Year	Hours
Medical Human Anatomy	3
Medical Interviewing	2
Medical Physiology & Pathophysiology I	3
Pharmacology I	3
Patient Evaluation	4
Principles of Clinical Medicine I	3
Medical Physiology & Pathophysiology II	3
Pharmacology II	2
Preventive Medicine & Community Health	2
Clinical Laboratory Methods	2
Clinical Clerkship	2
Patient Education	2
Principles of Clinical Medicine II	3
Research & Statistical Methods in Health Care	1
Studies in PA Profession	2
Evidence-Based Medicine & Medical Research Design	1
Radiology Seminar	1
Health Policy & Health Management	1
Clinical Laboratory Interpretation	1
Legal & Ethical Issues in Health Care	2
Medical Psychiatry	2
Electrocardiography Seminar	1
Introduction of Clinical Practice	1
Total Didactic Year	48
Clinical Year	Hours
Pediatric Rotation I	4
Pediatric Rotation II	4
Obstetrics & Gynecology Rotation	4
Surgery Rotation I	4
Surgery Rotation II	4
Medicine Rotation I	4
Medicine Rotation II	4
Emergency Medicine Rotation	4
Clinical Elective Rotation	4
Total Clinical Year	36
Capstone Year	Hours
Capstone Clinical Track I	4

Capstone Clinical Track II	4
Capstone Clinical Track III	4
Capstone Research Experience	2
Capstone Board Review	2
Total Capstone Year	16

Upon successful completion of academic and clinical training requirements, the student is conferred the degree of Master of Science in Physician Assistant Studies.

The curriculum meets and exceeds the requirements outlined in the Essentials of an Approved Educational Program for the Assistant to the Primary Care Physician established by the Accreditation Review Commission on Education for the Physician Assistant. Graduates of the program are eligible to apply for membership in the American Academy of Physician Assistants or other nationally recognized organizations representing the Physician Assistant and to sit for the Physician Assistant National Certifying Examination. Successful completion of the examination leads to certification by the National Commission on Certification of Physician Assistants and is accepted by the many states as proof of competency.

The Bridge Program

This provides an opportunity for the practicing Physician Assistant to obtain a Masters degree in the area of Physician Assistant Studies. This curriculum is a WEBCT based program that enables a practicing physician assistant with a Bachelors degree to obtain a Masters degree in Physician Assistant Studies while allowing the physician assistant to remain in their community while completing their course of study. The degree awarded at the completion of the Bridge Program will be a professional Masters degree in Physicians Assistant Studies.

While enrolled in the bridge program, students will select one of the specialty tracks designed for the Masters capstone. This will include three clinical tracks (four weeks each) and the research experience course. The board review course will be waived since graduates enrolled will have already demonstrated successful completion of the national certification exam via Texas Licensure. (Texas Licensure requires passing the PANCE before obtaining a PA license.)

Bridge Courses

The bridge program is designed to offer the previous graduates of the Bachelors physician assistant program to obtain a professional Masters degree in Physician Assistant Studies. The bridge program will be offered for the first five years following the transition of the bachelors PA program to the Masters PA program. The goal of this option is to provide an opportunity for practicing Physician Assistants to increase and enhance their medical knowledge and clinical skills. The three year offering should be sufficient time for previous graduates to enroll and complete the bridge program.

NOTE: Bridge Program Courses are only for those who have already completed a degree in physician assistant studies.

Course Descriptions

A listing of graduate courses offered by the program in Physician Assistant Studies Program can be found in the Course Descriptions section of this catalog beginning on page 177 (CLSC) and page 230 (PHAS)

Rehabilitation

Tom Shefcik, *Interim Chair*

Health Sciences and Human Services West (HSHW)
Room 1.266A
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: 956/316-7036
Fax: 956/ 318-5237
E-mail: tshefcik@utpa.edu

Dr. Eva Miller, *Masters Program Coordinator*

Health Sciences and Human Services West (HSHW)
Room 1.310
1201 West University Drive
Edinburg, TX 78539-2999
Telephone: 956/318-5270
Fax: 956/ 318-5237
E-mail: evamiller@utpa.edu

Graduate Faculty

Blankenship, Charlene, *Assistant Professor*
Chen, Roy, *Assistant Professor*
Graf, Noreen, *Associate Professor*
Hansmann, Sandra, *Assistant Professor*
Marini, Irmo, *Professor*
Miller, Eva, *Assistant Professor*
Reed, Bruce, *Professor*
Reid, Charlles R., *Associate Professor*
Saladin, Shawn, *Assistant Professor*

Purpose

The Master of Science degree in Rehabilitation Counseling at The University of Texas-Pan American was designed as a direct result of the expressed need for professionally trained rehabilitation counselors in the growing Rio Grande Valley, the state of Texas, and across the nation. The degree is offered by the Department of Rehabilitation Services in the College of Health Sciences and Human Services. The program focuses on an integration of theory, skill and practice in counseling, specializing in

working with persons with disabilities. Students are prepared with the education needed to successfully function as a professional rehabilitation counselor and are required to complete a 100-hour supervised practicum and a 600-hour supervised internship to learn and practice the necessary skills to work as a professional counselor. The Masters degree is a minimum 48-semester hour program with a thesis or research grant option.

Mission and Objectives

The Master of Science degree in Rehabilitation Counseling was designed to meet a growing demand for professionally trained counselors in public and private rehabilitation agencies, mental health centers, schools, substance abuse centers, vocational rehabilitation agencies, and in medical case management. The program philosophy is to assist and empower persons with disabilities in adjusting/adapting to their vocational and personal lives.

The major objective of the Masters degree is to prepare students for a profession in rehabilitation counseling by providing classroom and experiential skills development in individual and group counseling, vocational assessment, job analysis and placement, medical and psychosocial aspects of disability, case management, research in rehabilitation, and psychiatric rehabilitation.

The Masters degree in rehabilitation counseling at UTPA is nationally accredited by the Council on Rehabilitation Education (CORE) and adheres to the curriculum goals and objectives defined by these national standards. As such, students who successfully complete the requirements of this program are immediately eligible to sit for the certifying exam as a Certified Rehabilitation Counselor (CRC).

Additionally, students may complete the appropriate coursework needed for the Licensed Professional Counselor (LPC).

Admission to the Masters Program in Rehabilitation Counseling

In order to be admitted to the graduate program in rehabilitation counseling, prospective candidates are required to complete the following procedures:

1. Students must follow the formal procedures for application to the Office of Graduate Studies. It is the students responsibility to read the requirements regarding admission deadlines, transfer credit from other programs, conditional status entry and other pertinent information. Application for admission to the University must be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

2. For clear admission to study in the rehabilitation counseling program, students must have a 3.0 GPA in the last

60 hours of study.

3. Students with less than a 3.0 GPA may be granted conditional admission. Students admitted under conditional status cannot enroll for more than 12 hours of graduate study and must have no grade lower than a B to continue the following semester. If a student obtains passing grades of B or better in nine hours of graduate study with no grade less than a B, his or her status will be changed to clear admission.

4. Deadlines for graduate admission are as listed in this catalog. The deadline for the Rehabilitation Counseling Masters degree program is April 7 for summer I and fall admission and November 7 for spring admission.

Procedures for Applying to the Master of Science in Rehabilitation Counseling Program

In addition to the requirements for admission to Graduate School, the following information for admission to study in the Master of Science Degree in Rehabilitation Counseling must be submitted with the online application.

The deadlines for the Rehabilitation Counseling Program are November 7 for spring admission and April 7 for summer/fall admission.

Submit online a double spaced, two-page typed essay as to why you want to pursue a Masters degree in Rehabilitation Counseling and become a counselor. Applicants must include educational and career goals as well as any other pertinent personal characteristics deemed appropriate.

Submit online two recommendations, one of which should be from a professor and the second from an employer or supervisor.

Official college transcripts are to be sent to the Graduate Studies Office directly from all the institutions attended. If the applicant attended UTPA at any time, those official transcripts will be handled by the Graduate Studies Office; however, the applicant is responsible for requesting official transcripts to be sent directly from all other institution(s).

Curriculum Degree Requirements

The Master of Science in rehabilitation counseling is a 48-semester hour program. Coursework includes:

Required Courses	42 hours
REHS 6300	Introduction to Rehabilitation Foundations
REHS 6310	Case Management in Rehabilitation
REHS 6315	Research in Rehabilitation
REHS 6320	Psychosocial Aspects of Disability
REHS 6325	Group Counseling in Rehabilitation
REHS 6330	Assessment and Vocational Evaluation
REHS 6345	Medical Aspects of Disability
REHS 6350	Job Placement Theories and Methods

REHS 6360	Counseling Theories in Rehabilitation Counseling
REHS 6370	Techniques in Rehabilitation Counseling
REHS 6375	Psychiatric Rehabilitation
REHS 6390	Practicum (100 hours)
REHS 7600	Internship (600 hours)

Electives	6 hours
REHS 6380	Special Topics in Rehabilitation
REHS 7100	Independent Study
REHS 7300	Thesis
REHS 7301	Advanced Thesis
REHS 7302	Research Grant Project
REHS 7303	Advanced Research Grant Project

Other electives may be taken from a variety of supporting fields including psychology, educational psychology, social work, public administration and others with the approval of the students academic advisor.

Total	48 hours
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Required Practicum and Internship Experience

A minimum 100-hour supervised practicum and 600-hour supervised internship is required of all Masters students in Rehabilitation Counseling. This field-based practical experience provides students with the opportunity to select and work for one semester in an approved rehabilitation setting. The practicum may be taken only after completion of REHS 6360 and REHS 6370. The internship is generally completed in the students final semester. These practical experiences permit students to gain exposure working with persons with disabilities and rehabilitation professionals under the direct supervision of a Certified Rehabilitation Counselor.

Written Comprehensive Examination

All candidates for graduate degrees of the Rehabilitation Counseling Program are required to write a Comprehensive Examination covering aspects of the student’s academic program.

Comprehensive Examination requirements may be satisfied in one of two ways:

1. Passing the Certified Rehabilitation Counselor (CRC) Examination.
2. Passing the Department of Rehabilitation MS Comprehensive Examination.

Master’s degree candidates must inform the MS Graduate Program Coordinator of their intent to write the CRC Examination or the Department of Rehabilitation MS Comprehensive Examination at the beginning of the semester they intend to write.

Students opting to take the CRC Examination can obtain information on examination dates, examination locations, study guides, and scores required to pass the examination at:

Commission on Rehabilitation Counselor Certification
(CRCC)
1699 East Woodfield Road
Suite 300
Schaumburg, Illinois 60173
Telephone: (847) 944-1325
<http://www.crccertification.com>

Students who fail the CRC Examination will be given the option of taking the Department of Rehabilitation MS Comprehensive Examination. The Department of Rehabilitation MS Comprehensive Examination is offered three times (fall, spring and summer) each year and examination dates are posted on the Rehabilitation Counseling Program bulletin board as well as the MS Graduate Program Coordinators office door. Specific requirements for eligibility to sit for and pass the Examination are contained in the Masters degree Student Handbook.

Graduate Thesis Option

Students considering pursuing a doctoral degree and other students interested in conducting research are encouraged to complete the thesis option. Early in a students program, he or she should meet with rehabilitation counseling program graduate faculty members about mutual research interests and potential topics. The thesis entails an in-depth quantitative or qualitative research study on a topic related to rehabilitation. The thesis does not involve any formal classes, however, and generally involves two semesters of advisor-supervised independent study. Students must enroll for a minimum of six hours of thesis. Students must also orally defend their thesis upon its conclusion. A thesis handbook describing UT Pan Americans policies, guidelines and requirements must be purchased and is available at the University Bookstore.

Certification and Licensure

The Certified Rehabilitation Counselor (CRC) is a professional rehabilitation counselor who has met the educational and work experience requirements as set forth by the national standards developed by CORE. Students who intend to seek employment in the public sector with state vocational rehabilitation as well as private sector vocational rehabilitation (Workers Compensation) are strongly encouraged to obtain this credential upon completing their degree requirements. For more information contact the Commission on Rehabilitation Counselor Certification (CRCC) at 1699 East Woodfield Rd., Suite - 300, Schaumburg, IL 60173, (847) 944-1325. <http://www.crccertification.com>

The Texas Board of Examiners of Professional Counselors has been designated by the Texas Legislature

as the licensing body for counselors in Texas who want to pursue a career as a Licensed Professional Counselor (LPC). Licensing as a generic counselor with a specialty as a rehabilitation counselor is available. Any person practicing counseling activities and claiming the credentials of LPC is required by law to submit appropriate credentials for evaluation and take an examination before associate (LAC) recognition is granted. Students in UTPA Rehabilitation Counseling program can acquire the necessary academic courses to sit for the LPC exam; however, they must also complete 3,000 hours of internship or employment under the supervision of an LPC.

DOCTOR OF PHILOSOPHY (Ph.D.) IN REHABILITATION COUNSELING

Dr. Irmo Marini, *Doctoral Program Coordinator*
Health Sciences and Human Services West (HSHW)
Room 1.310
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: 956/316-7035
Fax: 956/ 318-5237
E-mail: imarini@utpa.edu

Mission and Scope

The Ph.D. in Rehabilitation Counseling is a 66-hour degree program designed to meet the critical shortage of rehabilitation educators, administrators, and qualified rehabilitation counselors across the nation. The program is designed to provide students with a didactic learning experience combining theory and applied practice in advanced rehabilitation counseling. Students will acquire skills in conducting research and publication, teaching in-class and online, grant writing and grant management, and select from a variety of specialized advanced electives in rehabilitation counseling. The capstone experience in the Ph.D. will be to conduct original research by completing and successfully defending a dissertation.

Admission to the Ph.D. Program

To be considered for admission to the Ph.D. in Rehabilitation Counseling Program at UTPA, the student

must first meet all requirements for admission to the Graduate School of UT Pan American (see page 17), as well as the other requirements listed below. Application for admission must be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

Admission Criteria

Admission eligibility to the Ph.D. in Rehabilitation Counseling includes the following:

- A GPA of 3.25 or higher in a students graduate program .
- Graduate Record Exam (GRE) scores.
- Official transcripts of all graduate course work.
- Recommendations from three former professors and/ or employers that are completed through the online Recommendation section of the application.
- At least two years of work experience with people with disabilities performed concomitantly while earning a masters degree or postgraduate experience.
- Interview with faculty regarding the applicant's personal, social and academic attributes.
- Earned graduate degree from an accredited institution in a rehabilitation counseling or a related field to rehabilitation counseling (may require foundation courses).
- Three-page double-spaced typed essay as to why you would like to obtain a Ph.D. in Rehabilitation Counseling.

All applications are reviewed by the Department of Rehabilitations graduate faculty. Deadline for application each year is March 30, and incomplete applications will not be reviewed. Successful applicants will be notified by late April.

Foundation Coursework

All students entering the Ph.D. program are required to have a Rehabilitation Counseling foundation. This foundation may be achieved by holding a Masters degree in Rehabilitation Counseling from a CORE accredited institution. Students with a masters degree in a related discipline will need any deficiency in the foundation coursework removed before the student enrolls in doctoral-level work. Students with related degrees will most likely have taken similar coursework that will be equivalent to the required foundation courses. Foundation courses include the following:

REHS	6300	Introduction to Rehabilitation Foundations
REHS	6310	Case Management in Rehabilitation
REHS	6320	Psychosocial Aspects of Disability
REHS	6325	Group Counseling in Rehabilitation

REHS	6345	Medical Aspects of Disability
REHS	6360	Counseling Theories in Rehabilitation Counseling
REHS	6370	Techniques in Rehabilitation Counseling
REHS	6375	Psychiatric Rehabilitation
REHS	6390	Practicum (100 hours)

Students with related Masters degrees will have their prior coursework evaluated to determine the foundation courses that will need to be completed.

Ph.D. Degree Requirements

The Ph.D. degree is a minimum 66-hour degree program. The precise number of hours depends on the program designed by the student and his or her program advisory committee as well as by the length of time required to complete the dissertation. The 66 hours include:

Core Courses	24 hours
Research Courses	12 hours
Dissertation	12 hours
Electives	12 hours

Coursework for the Ph.D. program is structured such that students may attend all semesters including summers if desired. For full-time students, this equates to six consecutive semesters of coursework followed by the dissertation in year three. Full-time students can graduate after a minimum of three years if they are diligent in completing their dissertation. Upon completion of substantial coursework and before beginning the formal dissertation, students must successfully pass a preliminary exam covering all relevant rehabilitation counseling coursework.

Residency Requirements

Each student must complete a residency as a full-time student consisting of a minimum of two consecutive long semesters with a minimum of nine hours in each semester.

Dissertation

The Ph.D. in Rehabilitation Counseling requires students to complete a dissertation. The manual that details University requirements for the format and submission of the dissertation are available at the Bookstore or the Graduate School web site. The student will also need to follow departmental guidelines for the development and completion of the dissertation.

Maximum Period for Completion

A student has a maximum of 10 years from the date of first entry into doctoral level courses to complete the degree. Under special circumstances, an extension for an additional year may be granted by the students Doctoral Dissertation Committee. If the student exceeds the 10-year limit, the Doctoral Dissertation Committee will determine if the student will be permitted to continue in the program and what additional coursework or activities will be required to complete the degree.

Financial Support and Assistantships

The University has limited funds available exclusively for Ph.D. students. Assistantships are made on a competitive basis. Incoming applicants requesting assistantships from the Department of Rehabilitation should submit their request with their application materials. Academic performance will be reviewed each year to ensure that the student is making satisfactory progress. The chair of the Department of Rehabilitation will make final determination regarding assistantships, and will notify continuing students of the timelines for renewing or applying for assistantships. At a minimum, the student must be in good academic standing, enrolled in nine hours or more as a graduate student during the fall and/or spring semester. The maximum amount of time allowed for assigned teaching and research duties is 20 hours per week. Students should contact UT Pan American's Student Financial Services to determine if other sources of financial aid are available. The Department of Rehabilitation may also have a limited number of competitive scholarships from the Rehabilitation Services Administration. Students are encouraged to contact the Ph.D. Program Coordinator regarding the availability of these scholarships and the payback criteria.

Course Descriptions

A listing of graduate courses offered by the program in rehabilitation counseling can be found in the Course Descriptions section of this catalog beginning on page 240.

Social Work

Dr. Héctor Luis Diaz, *Department Chair*
Health Sciences and Human Services East (HSHE)
Room 2.128
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: 956/381-3575
Fax: 956/381-3516
E-mail: hdiaz@utpa.edu

Dr. Alonzo Cavazos, *MSSW Director*
Health Sciences and Human Services East (HSHE)
Room 2.120
Telephone: 956/381-2487
Fax: 956/381-3516
E-mail: alonso@utpa.edu

Graduate Faculty
Arizmendi, Lydia, *Associate Professor*
Barrera, Iran, *Assistant Professor*
Cavazos, Alonzo, *Professor*
Diaz, Héctor Luis, *Professor*
Faver, Catherine, *Professor*
Feldman, Janis, *Assistant Professor*
Pittman, Sharon A., *Professor*
Ramirez, Noe, *Associate Professor*
Rombough, Shirley, *Associate Professor*

Mission Statement

The Department of Social Work is committed to preparing entry-level generalist (BSWs) and advanced professional social workers (MSSWs) to meet the needs of a binational and multicultural community. The educational emphasis is on social work practice with Latino individuals and families considering multicultural awareness, professional competence, ethical practice, knowledge building acquisition, and social services that promote social and economic justice in a binational environment.

The department aims to meet the mission statement through the goals and objectives that guide the curriculum.

Program Goals and Objectives

The Department of Social Work at The University of Texas-Pan American designed its Master of Science in Social Work (MSSW) Program to meet the social service needs of the population the programs graduates will serve, and to meet the requirements of the Council on Social Work Education (CSWE) Educational Policy and Accreditation Standards.

The mission of the Department of Social Work is closely bound to the mission of the University and college. The University states as part of its mission to "serve the higher

education needs of South Texas.” The College of Health Sciences and Human Services mission states “The college is committed to enhancing the quality of life and health care in the lower Rio Grande Valley binational border community and region.”

The Department of Social Work fulfills its mission through its educational programs and the delivery of social services and programs by faculty and students.

The department’s mission and the program objectives provide the rationale for the Master of Science in Social Work Program and for the course objectives and content. These program purposes are articulated in the objectives and syllabi of the specific courses offered, in orientation and admission programs, in the Graduate Catalog, admission guidelines, student handbook and field instruction manual, and in faculty advisement.

The social work master’s program seeks, as its major general objective, to prepare competent and effective social work professionals for advanced social work practice with Latino individuals and families who are guided by social work values and ethical principles.

Graduates are expected to be knowledgeable, skilled and committed to work in the economic and cultural milieu of South Texas, and to understand, relate to, and communicate with, as well as appreciate, the diverse character and culture of these people, as well as of human beings in general.

Graduates articulate and manifest a liberal arts perspective, serve disadvantaged, vulnerable and oppressed populations and advocate for conditions that ameliorate poverty, oppression, dependency, abuse, violence, social and economic injustice, and all forms of discrimination.

Graduates understand and work with varied client family groups and systems, utilizing a generalist and family-focused ecosystem, strengths perspective, with an appreciation of systemic relationships between direct practice, social welfare policies and programs. They are expected to be competent in a professional evaluation of their practice, with an instrumental degree of self-awareness. They value the importance of research in practice and can apply appropriate research findings in their practice and contribute meaningfully to research projects.

Finally, graduates provide effective social services, promote equitable social welfare policies and contribute to the advancement of social and economic justice and the development of a responsive and just society.

The curriculum of the program is designed to achieve these objectives and outcomes through departmental policies, procedures and educational programs and facilitative relationships and activities between faculty, students and the community. The curriculum also gives emphasis to the implementation of affirmative action and non-discriminatory policies and guidelines.

The objectives and curriculum content of the masters program mesh with the missions of the University, college and department which strive to educate competent graduates who are dedicated to serving residents of the Rio Grande Valley and other regions throughout Texas and the nation.

Department faculty develop knowledge through scholarship and research activities that focuses on the needs of Hispanic/Latino low-income populations in this area

and provides research instruction that helps students to contribute to such knowledge. The department prepares social work practitioners to serve this population and to serve in the public and private social welfare systems.

The MSSW Curriculum

The Master of Science in Social Work (MSSW) Program is accredited by the Council on Social Work Education. The master’s in social work is a 63-hour degree consisting of 33 hours of professional foundation courses and 30 hours of advanced professional social work courses.

The foundation curriculum consists of three hours of Introduction to Professional Social Work, nine hours of Generalist Social Work Practice, three hours of diversity, six hours of Human Behavior and the Social Environment, three hours of Research Design and Analysis, three hours of Social Welfare Policy, and six hours of Field Education.

The advanced social work curriculum consists of six hours of Professional Foundations, six hours of Social Work Practice with Families, three hours of Social Work Supervision, Consultation and Administration, three hours of Practice and Program Evaluation, three hours of Social Work Practice with Latinos, three hours of Advanced Assessment, three hours of an elective, and six hours of Advanced Field Education. The Professional Foundations course (SOCW 6338) is completed in the summer as the first course in the advanced standing curriculum.

In addition to full-time study, extended study options are available for the 36-hour advanced standing program and the 63-hour program. The 36-hour advanced standing program can be completed in a two-year extended study period. Similarly, the 63-hour program can be finished in three or four years of extended study.

◆Degree Plan - MSSW (63-hour Program)

Foundation Curriculum - 33 hours

SOCW 63003	Human Behavior and the Social Environment I: Individuals, Families and Small Groups
SOCW 63013	Human Behavior and the Social Environment II: Social Institutions, Communities and Organizations
SOCW 6302	3 Social Welfare Policy
SOCW 6311	3 Social Work as a Profession
SOCW 6315	3 Social Work with Diverse Populations
SOCW 6321	3 Generalist Social Work Practice I
SOCW 6322	3 Generalist Social Work Practice II
SOCW 6323	3 Generalist Social Work Practice III
SOCW 6370	3 Field Practicum
SOCW 6371	3 Field Practicum
SOCW 6381	3 Social Work Research Designs and Application
SOCW 6670	6 Field Practicum

Concentration Curriculum - 30 hours

SOCW 6330	3	Advanced Family Practice I
SOCW 6331	3	Advanced Family Practice II
SOCW 6332	3	Social Work Practice with Latinos
SOCW 6335	3	Advanced Clinical Assessment
SOCW 6376	3	Concentration Practicum
SOCW 6377	3	Concentration Practicum
SOCW 6380	3	Practice and Program Evaluation
SOCW 6395	3	Supervision, Consultation and Administration

Electives 6

◆ Degree Plan - MSSW (Advanced Standing Program - 36 hours)

SOCW 6315	3	Social Work with Diverse Populations
SOCW 6338	3	Foundations of Social Work
SOCW 6330	3	Advanced Family Practice I
SOCW 6331	3	Advanced Family Practice II
SOCW 6332	3	Social Work Practice with Latinos
SOCW 6335	3	Advanced Clinical Assessment
SOCW 6380	3	Practice and Program Evaluation
SOCW 6395	3	Supervision, Consultation and Administration
SOCW 6376	3	Concentration Practicum
SOCW 6377	3	Concentration Practicum

Electives 6

The required courses are designed to provide the student with a multicultural background, emphasizing the important social issues in family practice. The degree program, administered by the Department of Social Work, offers professional preparation for advanced social work practice. Graduates will have the opportunity to attain advanced analytical and practice skills sufficient for self-critical, accountable and autonomous practice.

The Master of Science in Social Work degree is designed to prepare its graduates for the Licensed Master of Social Work designation issued by the state of Texas and for the Academy of Certified Social Workers designation granted by the National Association of Social Workers.

Requirements for Clear Admission

In order to be admitted to the program, the student must first meet all requirements for graduate admission to UT Pan American (see page 17), as well as the other requirements listed below. Application for admission to the University must be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

1. A bachelor's degree from an accredited college or university.
2. A cumulative GPA of 2.75 or better on a 4.0 scale.
3. Successful completion of an undergraduate course in statistics within the previous five years.

Applicants must attach or request the following through their online application:

4. Three letters of recommendation from persons who can evaluate ability and potential for graduate education and professional social work practice.
5. Leadership ability, motivation, personal maturity and English writing proficiency, as demonstrated in a personal narrative statement.

NOTE: Students whose undergraduate degree is from a social work program accredited by the Council on Social Work Education (CSWE) may apply to the Advanced Standing Program.

Conditional Admission

Conditional admission to the 60-hour MSSW Program may be granted to applicants who have GPAs less than 2.75 only if they are approved for probationary admission to the University graduate school.

Conditional admission will become clear admission after the first semester of graduate work is completed with a GPA of at least 3.0., with no outstanding incomplete grades.

Advanced Standing

Applicants who possess a Bachelor of Social Work degree from a program accredited by the Council on Social Work Education (CSWE) may qualify for advanced standing and receive a waiver of up to 30 hours of academic credit for professional foundation courses. The advanced standing curriculum consists of 36 hours: six hours of Professional Foundation, six hours of Social Work Practice with Families, three hours of Supervision, Consultation and Administration, three hours of Practice and Program Evaluation, three hours of Social Work Practice with Latinos, three hours of Advanced Clinical Assessment, three hours of an elective, and six hours of Advanced Field Education. Applicants who wish to be considered for advanced standing must meet the following admissions requirements:

1. Clear admission to graduate study at UT Pan American.
2. GPA of 3.2 or higher on a 4.0 scale in core undergraduate courses.

Admission Committee Review

All applications will be reviewed by the Department of Social Work MSSW Program Admissions Committee. The committee is responsible for the selection of the individuals who are admitted into the master's in social work degree program.

Course Descriptions

A listing of graduate courses offered by the Department of Social Work can be found in the Course Descriptions section of this catalog beginning on page 245.



COLLEGE OF SCIENCE AND ENGINEERING

General Overview

The College of Science and Engineering consists of the Departments of Biology, Chemistry, Computer Science, Electrical Engineering, Manufacturing Engineering, Mechanical Engineering, Mathematics, and Physics and Geology.

These departments are housed in four modern facilities: the Engineering Building, Science Building, Math and General Classroom Building, and Physical Science Building.

Academic Programs

The College of Science and Engineering offers the Master of Science degree in biology, chemistry, computer science, electrical engineering, engineering management, information technology, manufacturing engineering, mathematics, and mechanical engineering. The mathematics graduate program offers concentrations in mathematics teaching and mathematical sciences. In addition, the college provides several graduate support courses for students in graduate programs in other colleges.

The college also offers the Bachelor of Science in biology, chemistry, computer engineering, computer science, electrical engineering, manufacturing engineering, mathematics, mechanical engineering and physics.

Students may minor in biology, chemistry, computer science, electrical engineering, elementary mathematics, geology, manufacturing engineering, mathematics, mechanical engineering/thermal, physical science, physics and statistics. High school teacher certification is available in biology, chemistry, computer information systems, earth science, mathematics, physical science and physics, and elementary teacher certification is available in biology, mathematics and physical science.

Also included in the biology and chemistry departments are programs for pre-dental and premedical students. Chemistry also has a plan of study for pre-pharmacy students.

Dr. Edwin LeMaster, *Dean*
Engineering Building, Room 1.294
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: 956/381-2404
Fax: 956/381-2428

E-mail: elemaster@utpa.edu
Web site: <http://www.utpa.edu/colleges/cose>

SCHOOL OF ENGINEERING AND COMPUTER SCIENCE

Overview

The School of Engineering and Computer Science is an organization within the College of Science and Engineering that groups together four of the eight academic departments in the college. The school is made up of three engineering departments: electrical, manufacturing and mechanical engineering, as well as the Department of Computer Science. The school is headed by an associate dean and director who oversee the academic program development, the accreditation processes and the effective interactions with industry for the departments within the school. There is an external industry advisory council for computer science and also an engineering advisory council that provides advice on program development, evaluation of our placement processes for graduates and general feedback on the preparation of our students for jobs in industry or government facilities.

Academic Programs

Each of the four departments in the School of Engineering and Computer Science offers the bachelor's degree and the master's degree in the discipline. The graduates of these four departments are among the most sought after graduates in the University and they command the highest starting salaries for bachelor's degrees, according to a recent survey of the National Association of Colleges and Employers.

All four departments share the Engineering Building that contains more than \$7 million of teaching and research equipment. The enrollment of majors in the school is about 1,300, which makes up about half the total enrollment of the college.

Interdisciplinary Courses

The College of Science and Engineering offers interdisciplinary science courses designed to support teachers and others who desire integrated knowledge in science.

A listing of interdisciplinary courses can be found in the Course Description section of this catalog on beginning on [page 243](#).

Biology

Dr. Mohammed Y.H. Farooqui, *Department Chair*
 Science Building, Room 2.352
 1201 W. University Drive
 Edinburg, TX 78539-2999
 Telephone: 956/381-3537
 Fax: 956/381-3657
 E-mail: farooqui@utpa.edu

Dr. Zen Faulkes, *Graduate Program Coordinator*
 Science Building, Room 2.364
 Telephone: 956/381-2614
 Fax: 956/381-3657
 E-mail: zfaulkes@utpa.edu

Graduate Faculty
 Brush, Timothy, *Professor*
 Davelos Baines, Anita, *Assistant Professor*
 DeYoe, Hudson, *Associate Professor*
 Edwards, Robert J., *Professor*
 Farooqui, Mohammed Y. H., *Professor*
 Faulkes, Zen, *Associate Professor*
 Feria, Teresa, *Assistant Professor*
 Fredensborg, Brian, *Assistant Professor*
 Judd, Frank W., *Research Professor*
 Kuang, Anxiu, *Associate Professor*
 Lieman, Jonathon, *Assistant Professor*
 Lowe, Kristine, *Assistant Professor*
 Materon, Luis A., *Associate Professor*
 McDonald, Andrew, *Assistant Professor*
 Persans, Michael W., *Associate Professor*
 Summy, Kenneth R., *Associate Professor*
 Terry, Matthew, *Assistant Professor*
 Vitek, Chris, *Assistant Professor*
 Zaidan, Frederic, III, *Associate Professor*
 Zarnowski, Robert, *Assistant Professor*

General Overview

The Department of Biology offers courses leading to a Master of Science in biology and provides minor and support areas for degrees in other fields.

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 masters degree in related fields can include 12 to 18 hours of work in biology.

Students pursuing the non-thesis option for the Master of Science degree with a major in biology can include up to nine hours of work in an approved minor or support area.

Entry Requirements for Biology Master Program

The following are required for consideration to join the Biology Masters program. Multiple factors are considered in the decision to admit new graduate students. Meeting minimum entry requirements does not guarantee acceptance into the program.

1. The student must first meet all requirements for graduate admission to UT Pan American ([see page 17](#)), as well as the other requirements listed below. Application for admission must be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

2. a. An applicant must have 24 hours of undergraduate courses in biological sciences or closely-related disciplines, with 12 hours at the 3000/4000 level (third/fourth year) or equivalent. An applicant must have completed at least three hours in each of the following categories: evolution and genetics; molecular and cell biology; organismal and environmental biology; and physiology. Students may take up to nine hours of leveling work to fulfill this requirement, and must take and complete such course(s) the first time they are offered.

b. A GPA of 3.0 (based upon a 4.0 system) in 3000/4000 level (third/fourth year) undergraduate courses in biological sciences or closely-related disciplines is required for clear admission to the Biology Masters program. Successful applicants with a GPA lower than 3.0 on this measure may be given conditional admission.

3. A Graduate Record Exam (GRE) General Test score sent directly to The University of Texas-Pan American from the testing agency.

4. Applicants with education from foreign institutions: Evaluation of credentials may be requested as part of an application. The official credential evaluation service for The University of Texas-Pan American is Foreign Credentials Service of America (<http://www.fcsa.biz>); credentials evaluated by other means will not be considered. Credential evaluation is done at the applicants expense.

5. Interview: Upon invitation, conduct an interview (in person, phone interview, or other means) with members of the Biology Graduate Committee.

6. Thesis option: A graduate faculty member must serve as the chair of the students graduate committee (i.e., thesis adviser). The prospective thesis adviser should provide the graduate program coordinator with evidence that they have a means to support the graduate student (including e.g., anticipated teaching assistantships or research assistantships in the department) if support is necessary. A student may later change thesis advisers.

Non-thesis students also need a graduate committee to complete this program and must find a committee chair (i.e. adviser) within 16 weeks of beginning the program.

Applicants must attach or request the following through their online application:

7. A one- to two-page personal statement describing your academic and career goals, which states whether you are pursuing the thesis or non-thesis option.

8. Two letters of recommendation sent directly to The University of Texas-Pan American from the referees.

Applications are reviewed by multiple members of the Biology Graduate Committee, who then recommend whether or not to accept an application.

Supporting documents from referees, institutions or agencies will only be accepted when received from them under separate cover. Supporting documents should be sent to The University of Texas-Pan American Graduate Office unless other arrangements are made. Candidates may submit additional or supplementary documentation (e.g., GRE Subject Test Score, CV).

Application information and status is confidential. All applicants will be informed of the status of their application after a decision has been made.

Enrollment While Completing Leveling Work

The following courses may be taken while enrolled in leveling work:

Biology	6101	Biology Graduate Seminar (must be completed three times)
Biology	6305	Biometry
Biology	6365	Graduate Biological Research Problems

General Degree Requirements

1. Preliminary Oral Assessment. By the end of a students first semester, the students graduate committee will administer a preliminary oral assessment to determine the students understanding of general biological principles. This helps to ensure that students have the background knowledge necessary to complete academic coursework required for a masters, and to ensure that thesis students have the knowledge necessary to complete thesis research.

Students are expected to be familiar with the following subject areas and related concepts of biology; the role of DNA in inheritance and trait expression; evolution; diversity of living organisms; organ systems; ecology; structure/function relationships; and scientific methodology. Students should be able to discuss many of these topics at a level of complexity at least equal to that presented in introductory biological textbooks (e.g., those used in BIOL 1401 and 1402). Thesis students should also be assessed on their knowledge of the field in which they are conducting research; for example, background knowledge of their research organism(s) and appropriate methodologies. Students are encouraged to consult with their committee members before the assessment to discuss what sort of topics may be covered in the assessment.

Students and committee members should allow not less than one hour and up to three hours to complete a preliminary oral assessment.

The outcome of the assessment will be used to formulate

or revise (if necessary) a students degree plan. For this reason, it is strongly recommended that a student hold a preliminary oral assessment before submitting a degree plan.

The students performance on this assessment will help the students committee in formulating recommendations for the degree plan and for removing deficiencies. If deficiencies or weaknesses in basic biology are apparent, the students committee can recommend a course of action for the student to remove the deficiencies. Students do not normally fail a preliminary oral assessment, but a student's committee has broad power in making recommendations based on a student's performance, up to and including that the departmental Graduate Committee review whether the student be allowed to continue in the program. It is expected that the student will follow through to address committee concerns, and that the student can demonstrate that committee concerns are addressed, for example, by: completing recommended coursework; discussion at an annual committee meeting, or; having individual meetings with committee members. Although there is no formal re-assessment, the students committee must be satisfied that a student has resolved any deficiencies before allowing a student to schedule a final oral examination.

2. Comprehensive Oral Examination and Thesis Defense. After satisfactory completion of the required number of courses (and the presentation of a seminar on the thesis research for those pursuing the thesis option) the student must take a comprehensive examination (and thesis defense for thesis students). The examination (and thesis defense) will be conducted by the students graduate committee, but it is open to all biology graduate faculty members. The biology graduate faculty must be notified of the examination date, time and place at least two weeks prior to the examination. There is no time limit, but the examination (and thesis defense) ordinarily lasts at least two hours. For thesis students, the first round of questions is devoted to a defense of the thesis and the second and subsequent rounds of questions are over basic biological concepts and principles. For non-thesis students, all questions are on general biology. At the end of the comprehensive oral examination (and thesis defense), the student's graduate committee will assign a grade of pass or fail, based on a majority vote of the committee.

If the student fails the comprehensive oral examination (and thesis defense), he or she may be granted permission to take a second examination, if doing so is approved by the students graduate committee, the chair of the Department of Biology, and the dean of College of Science and Engineering. In no case will a second examination be given until at least one semester has passed. After two failures, no further examination is allowed.

3. Biology Grades. Graduate students in biology are expected to maintain a GPA of 3.0 overall, and a 3.0 GPA in all 5000 level and higher biology courses (i.e., excluding courses outside of biology and excluding undergraduate courses). Any student whose overall GPA falls below 3.0 will be placed on probation. Students whose biology graduate GPA falls below a 3.0 for one semester will receive a written warning of their status. To remain in the graduate program, the student must restore his or her GPA to 3.0 by the end of

the next semester. (Two summer sessions are equivalent to one semester.)

4. Committee Formation. Students must form a committee within 16 weeks (i.e., one semester) of starting the program, and may be removed from the biology masters program if they do not have a committee for more than 16 consecutive weeks.

5. Degree Plan. Students must submit a degree plan to the biology graduate program coordinator within 16 weeks (i.e., one semester) of starting the program, preferably after completing their preliminary oral assessment.

6. Continuous Enrollment. Students are expected to enroll continuously for biology classes, just as they are expected to enroll continuously for graduate courses. A student who is taking only courses outside biology should inform his or her supervisor and the biology graduate program coordinator to ensure that he or she is not removed from the Biology Graduate Program.

7. Annual Committee Meeting. Students should have an annual committee meeting to ensure that the student is making satisfactory progress toward completion of the degree.

◆ General Requirements for Thesis Program

1. Graduate students selecting the thesis option must complete 30 hours, including the thesis. The choice of courses will be determined through consultation between the student and his or her graduate adviser and have the approval of the chair of the department.

2. 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 chairperson of his or her Graduate Committee and two other faculty members chosen in conference with the major professor and the chair of the department. A degree plan, signed by the student and his or her supervisor(s) (i.e., Graduate Committee chair), must be submitted to the graduate program coordinator, who will forward it to appropriate administrators for signatures. This committee will also oversee progress and supervise the required comprehensive examination.

3. A thesis topic and plan for research will be chosen by the student and his or her major professor, subject to approval by the student's Graduate Committee.

4. The research will culminate in a thesis written in the style approved by the student's 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 college.

5. Following acceptance of the thesis, evidenced by the signatures of the 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.

◆ General Requirements for Non-Thesis Program

A non-thesis student must complete 36 hours of coursework, which must include at least 27 hours in biological sciences. A maximum of nine hours in a related minor or supporting field may be taken if approved by the student's supervisor and relevant administrators.

◆ Switching Degree Options

1. Students may switch between options if 18 graduate credit hours or fewer are completed by submitting a change of program form and new degree plan.

2. Students who have completed more than 18 graduate credit hours must submit a written request and justification for the change to the Biology Graduate Program coordinator. Requests will be reviewed by the Biology Graduate Program coordinator and members of the Biology Graduate Committee. Requests to switch from thesis to non-thesis after more than 18 hours of coursework have been completed in a program must be strongly justified and should be supported in writing by a student's committee. If approved, the student must submit a new degree plan within eight weeks.

Master of Science Degree

Required Courses
15 hours (Thesis)

18-27 hours (Non-Thesis)

BIOL	6101	Biology Graduate Seminar (must be completed three times)
BIOL	6305	Biometry
BIOL	6365	Graduate Biological Research Problems
BIOL	7300	Thesis (Thesis option)
BIOL	7301	Thesis (Thesis option)

Electives 15 hours
Select 15 hours (Thesis) or 18-27 hours (Non-Thesis) from the following:

BIOL	5304	Advanced Ichthyology
BIOL	5307	Host-Parasite Relationships
BIOL	5315	Advanced Entomology
BIOL	5316	Advanced Environmental Toxicology
BIOL	5317	Advanced Bacterial Genetics
BIOL	5318	Advanced Topics in Ethnobotany
BIOL	5344	Advanced Mammalogy
BIOL	5345	Advanced Plant Physiology
BIOL	5346	Advanced Aquatic Entomology
BIOL	5403	Advanced Remote Sensing Technology
BIOL	5404	Molecular Virology
BIOL	5405	Advanced Plant Physiology
BIOL	5406	Advanced Mycology
BIOL	5408	Advanced Plant Pathology
BIOL	5409	Advanced Herpetology
BIOL	5410	Marine Plant Science
BIOL	5411	Advanced Ecological Physiology
BIOL	5412	Advanced Ornithology

BIOL	5414	Advanced Plant Systematics
BIOL	5418	Advanced Electron Microscopy
BIOL	5420	Biotechnology
BIOL	5424	Advanced Microbial Ecology
BIOL	5426	Advanced Marine Ecology
BIOL	5452	Advanced Marine Zoology
BIOL	6302	Select Topics in Biology
BIOL	6303	Advanced Ecology
BIOL	6304	Systematic Biology
BIOL	6307	Bioenergetics
BIOL	6308	Plant-Microbe Interactions
BIOL	6313	Advanced Cell Biology and Physiology
BIOL	6316	Molecular Genetics
BIOL	6319	Scientism
BIOL	6321	Applied Microbiology
BIOL	6322	History of Biology
BIOL	6324	Evolutionary Theory
BIOL	6412	Subtropical Ornithology
BIOL	6420	Plant Biochemistry and Molecular Biology
CHEM	6305	Biochemistry

Approved Minor or Support Area (Non-Thesis) 0-9 hours

TOTAL 30 hours (Thesis)
36 hours (Non-Thesis)

Course Descriptions

A listing of graduate courses offered by the Department of Biology can be found in the Course Descriptions section of this catalog beginning on page 173. All biology courses require graduate standing before enrollment.

Chemistry

Dr. Hassan Ahmad, *Department Chair*
Science Building, Room 3.352
1201 West University Drive
Edinburg, TX 78539-2999
Telephone: 956/381-3371
Fax: 956/384-5006
E-mail: ahmadh@utpa.edu

Dr. Elamin Ibrahim
Graduate Program Coordinator
Science Building, Room 3.328
Telephone: 956/384-5003
Fax: 956/384-5006
E-mail: amin@utpa.edu

Graduate Faculty
Ahmad, Hassan, *Professor*
Banik, Bimal, *Associate Professor*
Bhat, Narayan, *Professor*
Chen, Banglin, *Assistant Professor*
Gutierrez-Gonzales, Jose Juan, *Assistant Professor*
Han, Aijie, *Assistant Professor*
Ibrahim, Elamin, *Associate Professor*
Macossay-Torres, Javier, *Assistant Professor*
Mondal, Jalal, *Professor*
Rampersad-Ammons, Joanne, *Assistant Professor*
Smith, Christopher Kenneth, *Assistant Professor*

General Overview

The Department of Chemistry provides the programs for graduate students to complete the Master of Science degree in chemistry to become professional chemists or to become professional secondary school/community college teachers. Both program tracks require students to finish 12 credit hours of core courses, three credit hours of seminar courses and nine credit hours of elective courses. In order to meet the total 30-credit hour requirement for graduation, students in traditional research track need to complete six credit hours on thesis, while those in teacher preparation track should finish six-credit hours on chemical educational project on secondary school/community college education. Among nine credit elective hours, students may be allowed to bring in a maximum of six-credit graduate hours from courses other than chemistry which requires program coordinator approval.

Admissions Requirements

In order to be admitted to the Master of Science in chemistry program, the student must first meet all requirements for graduate admission to UT Pan American (see page 17), as well as the other requirements listed below. Application for admission must be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

Specific Admissions Requirements

- In addition to the requirement of admission to the Graduate School, to be considered for unconditional admission to the Chemistry Program the applicant must satisfy the following requirements:
 - A minimum grade point average of 3.0 on a scale of 4.0 in the first 32 hours of the completed undergraduate degree (which need not be in chemistry) as shown on an official transcript.
 - Completion of the general section of the GRE (the scores will be used for comparison purposes only and will not be considered as sole criteria).
 - Sufficient undergraduate coursework in chemistry that is demonstrated by 32 credit hours of chemistry.
- The program committee will have the authority to accept into unconditional status any applicant whose qualifications in (a) above fall short of the requirements.
- Conditional admission will be considered for applicants who do not satisfy the criteria outlined in (a) above but are not granted unconditional status by the program committee. The program committee will base conditional admission on the strength of the applicants application portfolio and recommendations.

Such conditional admission may require courses addressing application deficiencies, and/or advice to take additional coursework in a particular field. These steps must be taken before the applicant is granted non-conditional or clear status.

The applicant may not proceed beyond 12 credit hours of chemistry graduate courses with a conditional status.

◆ General Semester Credit Hours Requirement

Leveling Courses	none at graduate level
Core Courses	12 hours
Required Seminar Courses	3 hours
Prescribed Electives	none*
Free Electives	9 hours*
Required Thesis option **	6 hours
Required Project option **	6 hours
TOTAL SCH	30 hours

* Free electives are developed in consultation with an adviser and with the approval of the program coordinator. In that sense there are no true prescribed electives apart from those suggested by the advisers. The students can take three

hours from other disciplines and under special cases, with the approval of the program director, can bring a maximum of two courses (six hours) of electives from disciplines other than chemistry.

** The thesis hours will be required for traditional research track and project hours will be required for the teachers preparation track.

General Requirements

Thesis Option

A supervised master's thesis is required. The thesis option provides much needed practical experience and technical skills, insight into the intricacies of scientific research and the opportunity to develop written and oral communication skills. When a clearly defined project has been outlined, the candidate can advance the study in coordination with an adviser. The thesis track involves three credits of seminar, writing and literature search techniques, and six credits of research work.

Project Option

A student may choose to take a project option with the consent of the program coordinator. The student will still be required to take three credits of seminar, writing and literature search skills, but also required to take the six credits of project work in which they will develop experimental plans and lesson plans which are applicable to secondary school, high school and community college teaching. The scope and project topic(s) will be developed by the student with the help of his/her adviser(s).

◆ Master of Science Degree Traditional Research Track

Core Courses 12 hours

CHEM 6305	Biochemistry*
CHEM 6310	Organic Chemistry
CHEM 6315	Inorganic Chemistry*
CHEM 6320	Instrumental Analysis
CHEM 6325	Physical Chemistry

* *Either Inorganic Chemistry or Biochemistry (If both courses are taken, one counts as an elective.)*

Elective Courses** 9 hours

CHEM 6330	Special Topics in Organic Chemistry
CHEM 6340	Special Topics in Inorganic Chemistry
CHEM 6350	Special Topics in Analytical Chemistry
CHEM 6360	Special Topics in Physical Chemistry
CHEM 6370	Special Topics in Chemical Education
CHEM 6380	Special Topics in Biochemistry
CHEM 6302	Teaching Environmental Sciences

** *Six credit hours could be from other disciplines pending*

approval by the program coordinator. (Special topics courses can be repeated.)

Seminar Courses		3 hours
CHEM 7101	Seminar I	
CHEM 7102	Seminar II	
CHEM 7103	Seminar III	

Thesis		6 hours
CHEM 7351	Thesis I	
CHEM 7352	Thesis II	

◆ Master of Science Degree Teachers Preparation Track

Core Courses		12 hours
CHEM 6305	Biochemistry*	
CHEM 6310	Organic Chemistry	
CHEM 6315	Inorganic Chemistry*	
CHEM 6320	Instrumental Analysis	
CHEM 6325	Physical Chemistry	

Either Inorganic Chemistry or Biochemistry (If both courses are taken, one counts as an elective.)

Elective Courses**		9 hours
CHEM 6330	Special Topics in Organic Chemistry	
CHEM 6340	Special Topics in Inorganic Chemistry	
CHEM 6350	Special Topics in Analytical Chemistry	
CHEM 6360	Special Topics in Physical Chemistry	
CHEM 6370	Special Topics in Chemical Education	
CHEM 6380	Special Topics in Biochemistry	
CHEM 6302	Teaching Environmental Sciences	

*** Six credit hours could be from other disciplines. (Special topics courses can be repeated.)*

Seminar Courses		3 hours
CHEM 7101	Seminar I	
CHEM 7102	Seminar II	
CHEM 7103	Seminar III	

Project		6 hours
CHEM 7325	Masters Project I	
CHEM 7326	Masters Project II	

◆ Master of Science in Interdisciplinary Studies Chemical Education

Core Courses		12 hours
CHEM 6310	Organic Chemistry	
CHEM 6320	Advanced Instrumental Analysis	
CHEM 6325	Advanced Physical Chemistry	
CHEM 6305	Biochemistry OR	
CHEM 6315	Advanced Inorganic Chemistry	

Electives 6 hours

(Select any two courses)

CHEM 6302	Teaching Environmental Sciences
CHEM 6330	Special Topics in Organic Chemistry
CHEM 6340	Special Topics in Inorganic Chemistry
CHEM 6350	Special Topics in Analytical Chemistry
CHEM 6360	Special Topics in Physical Chemistry
CHEM 6370	Special Topics in Chemical Education
CHEM 6380	Special Topics in Biochemistry

Select 9 hours from two of the following blocks
(Total 18 hours)

Education

EDCI 6301	Instructional Technology
EDCI 6302	Multicultural Education
EDCI 6305	Educational Curriculum
EDCI 6306	Special Projects
EDCI 6307	Research, Issues and Trends in Education
EDCI 6310	Research Methods in Education
SCIE 6303	Recent Developments in Applied Science

Mathematics

(Any three graduate Mathematics courses **except** MATH 6330, 6337, 6359, 6375, 6376, 6385, 7300, 7301)

Educational Psychology

EPSY 6330	Identifying the Gifted and Talented
EPSY 6331	Curriculum, Methods and Materials for the Gifted and Talented
EPSY 6332	Creativity and the Gifted and Talented
EPSY 6333	Counseling the Gifted and Talented
EPSY 6342	Seminar in Gifted Education

Physics

PHYS 5404	Physics by Inquiry I
PHYS 5405	Physics by Inquiry II
PHYS 6400	Astronomy by Sight
PHYS 6301	Topics in Physics for Teachers
PHYS 6302	Environmental Physics for Teachers
PHYS 6303	Quantum Information
GEOL 5301	Geology and Geography
GEOL 6302	Meteorology and Oceanography

Computer Science

(Any three graduate Computer Science courses **except** CSCI 6302, 6312, 6343, 6363, 6365, 6366, 6368, 6380, 6381, 6389, 6390, 7300)

Biology

(Any three graduate Biology courses except BIOL 5318, 5405, 5424, 5426, 6101, 6365, 7300, 7301)

Course Description

A listing of graduate courses offered by the Department of Chemistry can be found in the Course Description section of this catalog beginning on page 176.

Computer Science

Dr. Zhixiang Chen, *Department Chair*
 Engineering Building, Room 3.295
 1201 University Drive
 Edinburg, TX 78539-2999
 Telephone: 956/381-2320
 Fax: 956/384-5099
 E-mail: chen@cs.panam.edu

Graduate Faculty

Abraham, John P., *Professor, Networking*
 Chen, Zhixiang, *Professor, Machine Learning, Algorithms*
 Fowler, Richard H., *Professor, Interactive Systems*
 Fu, Bin, *Associate Professor, Bioinformatics, Algorithms*
 Grabowski, Laura M., *Assistant Professor, Artificial Intelligence*
 Lawrence-Fowler, Wendy A., *Professor, Information Systems*
 Liu, Fang, *Assistant Professor, Wireless Network, Network Security*
 Lozano, Andres, *Assistant Professor, Bioinformatics*
 Schweller, Robert, *Assistant Professor, Algorithms*
 Tomai, Emmett, *Assistant Professor, Natural Language*

Introduction

The Department of Computer Science offers two degrees: Master of Science in computer science and Master of Science in information technology. The degrees prepare students for positions in industry and education, enhance skills for the practicing professional and supply a foundation for study at the doctoral level. Students with a bachelor's degree in any field may enter either program. The programs provide a broad foundation of study in computer science, as well as offer in-depth study in the areas of algorithms, bioinformatics, databases, data mining, information retrieval, networks, artificial intelligence, computer graphics, information visualization, and software engineering. For both degrees, a core of computer science courses is required, together with additional prescribed elective courses. Other computer science electives and graduate courses in other departments may also be completed. The program offers both thesis and project options for the Master of Science in computer science. More information is available at: www.cs.panam.edu.

Admissions Requirements

1. The student must first meet all requirements for graduate admission to UT Pan American (see page 17), as well as the other requirements listed below. Application for admission to the University must be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted,

applicants can check the status of their applications online or by contacting the Graduate Office.

2. A grade point average of 3.0 or higher on a 4.0 scale for the last 60 semester hours, or 90 quarter hours, of undergraduate courses completed.
3. For foreign national applicants whose primary language is not English, a score on the TOEFL of 500.
4. Preparation for graduate work in computer science. This preparation is shown by (1) a bachelor's degree in computer science or (2) a bachelor's degree in another field and courses and/or experience that prepare the applicant for graduate work in computer science.

Conditional admission will be considered for an applicant who does not satisfy the above requirements. In particular, many students with bachelor's degrees in other fields enter the program. For those students, a sequence of courses preparing the student for graduate studies will be prescribed.

Degree Requirements

Master of Science in computer science students complete 36 semester hours, including 12 semester hours of required computer science lecture and seminar courses with a grade of B or higher, 12 or more semester hours of computer science prescribed elective courses and a master's thesis or project. Students may also complete up to six hours of other computer science electives and courses in other departments. For the project option, a final written examination is required.

Required Computer Science

Lecture and Seminar Courses		12 hours
CSCI	6174	Open Problems in Computer Science*
CSCI	6175	Seminar in Computer Science (2 hours required)
CSCI	6323	Design and Analysis of Algorithms
CSCI	6335	Advanced Computer Architecture
CSCI	6339	Theoretical Foundations of Computation

* To be taken in the first year of enrollment in the graduate program.

Computer Science Prescribed

Elective Courses		12 or more hours
CSCI	6333	Advanced Database Design and Implementation
CSCI	6334	Advanced Operating Systems
CSCI	6336	Programming Languages and Compilers
CSCI	6337	Simulation
CSCI	6340	Advanced Software Engineering
CSCI	6345	Advanced Computer Networks
CSCI	6350	Advanced Artificial Intelligence
CSCI	6351	Knowledge-Based Systems
CSCI	6354	Performance Evaluation

CSCI	6355	Bioinformatics
CSCI	6356	Parallel Computing
CSCI	6360	Advanced Computer Graphics
CSCI	6361	Computer Visualization
CSCI	6362	Interactive Systems
CSCI	6363	Human Computer Interaction
CSCI	6364	Network Information Systems
CSCI	6370	Topics in Computer Science

Other Computer Science Elective Courses and Courses in Other Departments 6 hours or less

CSCI	6300	Foundation of Systems
CSCI	6301	Foundation of Algorithms and Programming Languages
CSCI	6381	Independent Research and Study

Required Computer Science Problems, Project and Thesis Courses (3 hours for project option, 9 hours for thesis option):

CSCI	6380	Problems in Computer Science (required for both options)
and		
CSCI	6390	Masters Project I
CSCI	7300	Thesis (6 hours required)

Master of Science in Information Technology

Students complete 36 semester hours, including 13 semester hours of required computer science lecture and seminar courses with a grade B or higher, 14 or more semester hours of prescribed elective courses, and a masters project. Students complete up to six hours of other approved elective courses in computer science and other departments. A final written examination is required.

Required Computer Science Lecture and Seminar Courses 13 hours

CSCI	6174	Open Problems in Computer Science (To be taken in first year of enrollment in graduate program.)
CSCI	6302	Foundations of Software and Programming Systems
CSCI	6303	Principles of Information Technology System
CSCI	6315	Applied Database Systems
CSCI	6345	Advanced Computer Networks

Prescribed Elective Courses 14 or more hours

CSCI	6175	Seminar in Computer Science (may be repeated once as topics vary)
CSCI	6300	Foundation of Systems
CSCI	6301	Foundation of Algorithms, Data and Programming Languages in Computer Science
CSCI	6314	E-Commerce Systems and Implementation
CSCI	6340	Advanced Software Engineering

CSCI	6361	Computer Visualization
CSCI	6362	Interactive Systems
CSCI	6363	Human Computer Interaction
CSCI	6364	Network Information Systems
COMM	6324	Seminar in Organizational Communication
ELEE	6340	Digital Communications
ELEE	6372	Parallel and Distributed Systems
MANE	6375	Human Factors Engineering
MARK	6374	E-Commerce: Doing Business in a Digital World
MIS	6391	Information Security and Assurance Management

Approved Elective Courses 6 hours or less
Students complete up to nine hours of courses relevant to information technology, approved by the graduate director or the program coordinator in computer science or other departments.

Required Computer Science Project Courses 3 hours
CSCI 6390 Masters Project

Course Descriptions

A listing of graduate courses offered by the Department of Computer Science can be found in the Course Descriptions section of this catalog beginning on page 182.

Engineering

Dr. Miguel Gonzalez, *Associate Dean and Director*
Engineering Building, Room 1.294
1201 University Drive
Edinburg, TX 78539-2999
Telephone: 956/381-3510
Fax: 956/381-2428
E-mail: gonzalezma@utpa.edu

Graduate Program Overview

The University of Texas-Pan American program in engineering offers graduate programs in electrical engineering, manufacturing engineering and mechanical engineering leading to a Master of Science in engineering. Each of the three programs offers thesis, report, and non-thesis options. Students may further specialize within each program through selection of elective courses.

Electrical Engineering

Dr. Heinrich D. Foltz, *Department Chair*
 Engineering Building, Room 3.214
 Telephone: 956/381-2609
 Fax: 956/381-3527
 E-mail: hfoltz@utpa.edu

Dr. Junfei Li,
Graduate Program Director
 Engineering Building, Room 3.2102
 Telephone: 956/316-7148
 Fax: 956/381-3527
 E-mail: fei@utpa.edu

Graduate Faculty
 Banatoski, Edward, *Lecturer,*
Device Modeling and Measurement
 Ben Ghalia, Mounir, *Assistant Professor,*
Controls, Robotics, Expert Systems
 Foltz, Heinrich, *Associate Professor,*
Electromagnetics, Microwaves, Antennas
 Huq, Hasina, *Assistant Professor,*
Semiconductor Devices and Microelectronics
 Kumar, Sanjeev, *Assistant Professor,*
Communication Networks, Protocols,
Computer Architecture
 LeMaster, Edwin, *Professor, Remote Sensing*
 Li, Junfei, *Assistant Professor,*
Electromagnetics, Embedded Systems
Computer Imaging Assessment
 Peng, Jun, *Assistant Professor,*
Computer Networks, Wireless Networks
 Son, Jae Sok, *Assistant Professor,*
Signal and Image Processing, Radar

Master of Science in Engineering: Electrical Engineering

The Department of Electrical Engineering offers a graduate program leading to a Master of Science in engineering degree. The program has a thesis option and a non-thesis option. Coursework is offered in areas that include computer engineering, systems and controls, communications, digital systems, and electronics. Research opportunities are offered in computer architecture and performance evaluation, multimedia processors, VLSI design and implementation, microwave and antenna engineering, control systems and robotics, networks, and signal and image processing.

Admission to the Electrical Engineering Program

Applicants to the master's program in electrical engineering must meet the University requirements for admission to graduate study given in the admission section of this catalog. There are additional requirements specific to the electrical engineering graduate program. For unconditional admission, the minimum requirements are:

- (1) A bachelor's degree in electrical engineering.
- (2) A grade point average of 3.0 or higher on a 4.0 scale for the last 60 semester hours attempted.

Applicants who do not satisfy the specific program criteria above will be considered for conditional admission. Prospective graduate students whose bachelor's degree is in a field other than electrical engineering are required to take leveling courses, prescribed by the graduate program director, before they can be considered for admission to the electrical engineering graduate program.

Degree Requirements

General Requirements for Thesis Option

1. The thesis option for the master's degree requires a minimum of 30 hours of graduate work, including six thesis credits identified as ELEE 7300 and ELEE 7301.

2. The graduate program director will help the student prepare an initial plan of study to begin his/her first semester of work. During the first semester, the student is urged to discuss potential research topics with several faculty members in order to choose a topic that interests him/her and a major professor to act as his/her thesis adviser. When a thesis topic has been selected, a Graduate Committee composed of at least three graduate faculty members shall be formed in conjunction with the major professor and department chair. The committee should include at least two electrical engineering faculty members from UTPA and one faculty member from another department. A final plan of study must be prepared and approved by the major professor, the department chair and the dean no later than the second semester of work.

3. Each student should submit a proposal to the Graduate Committee that describes the thesis topic in sufficient detail. A copy of the proposal should also be submitted to the department. The proposal should normally be submitted before the student signs up for his/her first thesis course. Students should bear in mind that a masters thesis could be published in the technical literature and represent some knowledge in the field.

4. Each student is required to present a seminar on the thesis topic. Notice of the oral presentation of the masters thesis should be given at least one week in advance to all

faculty and students in the department. A draft copy of the masters thesis should be available to all faculty members serving on the students Graduate Committee at least one week before the oral presentation. Students are expected to make changes to the final copy of their master's thesis based on feedback obtained from the oral presentation. Students should expect to be asked fundamental questions during the oral presentation. If the student fails the thesis defense, he/she may be allowed to take a second defense contingent upon the approval of the Graduate Committee, the department chair and the dean. If approved, the timing and requirements of the second defense will be specified by the Graduate Committee, but in no case will the student be able to defend his/her thesis for the second time until at least one semester has passed. After two failures, no further thesis defense is allowed.

5. Students are responsible for preparing and copying the final thesis. One copy must be provided to the professor and one copy to the department in addition to copies required by the Office of Graduate Programs and Research. Members of the students Graduate Committee are required to be provided with a copy of the thesis. It is the responsibility of the student to adhere to the University requirements for the format and submission of a thesis.

6. All candidates for the Master of Science program must maintain a minimum GPA of 3.0 throughout their program of study. Any student with clear admission whose GPA falls below 3.0 will be placed on probation. To remain in the graduate program, the student must restore his/her GPA to 3.0 by the end of the following semester.

◆ Thesis Option (30 hours total)

Elective Courses in
Electrical Engineering 18 hours

Elective Courses in
Science and Engineering 6 hours

Masters Thesis 6 hours

ELEE 7300

ELEE 7301

Elective courses should be selected with the consent of the students thesis adviser. No more than three hours of ELEE 6385 (Independent Study) may be counted toward the degree.

General Requirements for Non-Thesis Option

1. The non-thesis option for the masters degree requires a minimum of 36 hours of graduate work.

2. The graduate program director will help the student prepare a plan of study during his/her first semester of work.

3. In addition to course requirements, each student in the project with report option will be required to pass a comprehensive examination during or at the end of the students final semester of work. The examination will be administered by an Examining Committee formed by a number of faculty members with whom the student

has taken one or more graduate courses. The Examining Committee will be appointed by the graduate program director with approval of the department chair and will evaluate the students depth of knowledge in the field of study and his/her competence in presenting the technical material. It is the responsibility of the student to contact the graduate program director to schedule the examination at least four weeks before the examination date. If the student fails the comprehensive examination, he/she may be allowed to take a second examination contingent upon the approval of the Examining Committee, the department chair and the dean. If approved, the timing and requirements of the second attempt will be specified by the Examining Committee, but in no case will the second examination be given until at least one semester has passed. After two failures, no further examination is allowed.

4. All candidates for the Master of Science program must maintain a minimum GPA of 3.0 throughout their program of study. Any student with clear admission whose GPA falls below 3.0 will be placed on probation. To remain in the graduate program, the student must restore his/her GPA to 3.0 by the end of the following semester.

◆ Non-Thesis Option (36 hours total)

Elective Courses in
Electrical Engineering 30 hours

Elective Courses in
Science and Engineering 6 hours

Elective courses should be selected with the consent of the graduate director. No more than three hours of ELEE 6385 (Independent Study) may be counted toward the degree.

Transfer of Graduate Credits

A maximum of nine semester hours of graduate work earned at other institutions may be transferred for degree credit, contingent upon review and approval by the director of the graduate program. General procedures and criteria for transferring graduate credits are described in this catalog.

Course Descriptions

A listing of graduate course offerings in electrical engineering can be found in the Course Descriptions beginning on page 194.

Manufacturing Engineering

Dr. Douglas H. Timmer, *Department Chair*
 Engineering Building, Room 3.224
 Telephone: 956/381-2608
 Fax: 956/381-3527
 E-mail: timmer@utpa.edu

Manufacturing Engineering Faculty
 Bose, Subhash, *Beecherl Professor*,
Process and Product Design, Robotics
Computer-Aided Manufacturing
 Butler, Alley, *Professor*,
Design Automation, Uncertainty Methods,
Process Manufacturing and Shipbuilding,
Business/Management in Engineering
 Gonzalez, Miguel, *Associate Professor*,
Manufacturing Simulation,
Ergonomics, Operations Research
 Lee, Kye-Hwan, *Assistant Professor*,
Plastics Product Design,
Mold Design, Plastics Processing
 Nambiar, Rajiv, *Associate Professor*,
Manufacturing Processes, Computer-Aided Design
 Timmer, Douglas, *Associate Professor*,
Quality Control, Design of Experiment,
Reliability and Total Quality Management

Master of Science in Engineering: Manufacturing Engineering

Graduate Program Overview

The University of Texas-Pan American Department of Manufacturing Engineering offers a graduate program in manufacturing engineering leading to a Master of Science in engineering. The department offers thesis, report and coursework options. Students may further specialize within the major through selection of elective courses, and a Concentration in Systems Engineering is available for students interested in qualifications in Systems Engineering.

The manufacturing engineering major is designed to help practicing engineers and managers with extensive engineering experience in manufacturing and graduates in engineering, the physical sciences and business to further their education for better opportunities in manufacturing industries. The major provides technical and engineering management skills, provides education in cutting-edge technology to manufacturing professionals so they can be competitive in the global market, and prepares students for doctoral programs in manufacturing engineering.

The graduate program in manufacturing engineering requires 30-36 semester credit hours, nine of which are required of all students. The nine hours are selected such that there is a course from each of three area lists in quality, design and systems. There are three choices of programs in the manufacturing engineering area: 1) thesis, 2) report, and 3) coursework only. The thesis option requires 24 hours of coursework plus six hours for the thesis. The report option requires 30 hours of coursework and 6 hours for the report. The coursework only option requires 36 hours of courses. There is a requirement of 18 hours of coursework for option one, 24 hours of course work for option two and 30 hours coursework for option three from manufacturing engineering. The remaining six hours of coursework for the thesis option, report option or coursework only option may be from mechanical or electrical engineering, business, math or computer science with the approval of the students Graduate Faculty Advisory Committee (GFAC).

For those students interested in a Concentration in Systems Engineering there is a prescribed list of courses required for the thesis option and for the coursework option. With the Concentration in Systems Engineering, the thesis option requires 33 hours and the coursework option requires 36 hours. The report option is not available with a Concentration in Systems Engineering.

Students shall make an oral presentation on either the thesis, the report, projects for coursework option to the faculty advisory committee or take a written test to complete the requirements for the Master of Science in engineering—option manufacturing. The thesis option gives students an opportunity to pursue research and continue a doctoral program in manufacturing engineering or related fields. The engineering practicum with a report option is designed to help practicing engineers or managers with manufacturing engineering experience to apply new technology in manufacturing and to help manufacturing industries be competitive in the world market. The report option gives fresh graduate engineers an opportunity to develop contact with an industry through project work for a report, enhancing opportunities for jobs. The report option also gives students an opportunity to work on an industrial problem for two semesters (three hours each semester). The coursework-only option is designed to give technical depth in the manufacturing disciplines while allowing the breadth by six hours of coursework from outside the manufacturing engineering area. The coursework only path is expected to meet the needs of practicing engineers who do not intend to pursue further graduate work in engineering and only desire to follow an industrial career path.

Students may be required to take some leveling courses to meet the prerequisites, depending on their undergraduate major and experience in manufacturing engineering. The students Graduate Faculty Advisory Committee specifies each students leveling work.

Admission to the Manufacturing Engineering Program

The student must first meet all requirements for graduate admission to UT Pan American (see page 17), Application for admission must be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

Degree Requirements

- ◆ Thesis Option (30 hours)
 - a) Courses required of all students 9 hours
(Three hours from each area; see list below.)
 - b) Elective courses prescribed None
 - c) Courses elected by students 6 hours
(Six hours from business, mechanical or electrical engineering, computer science, or mathematics chosen with the consent of the students GFAC.)
 - d) Courses from Manufacturing Engineering 9 hours
 - e) Thesis 6 hours

- ◆ Report Option (36 hours)
 - a) Courses required of all students 9 hours
(Three hours from each area; see list below.)
 - b) Elective courses prescribed None
 - c) Courses elected by students 6 hours
(Six hours from business, mechanical or electrical engineering, computer science or mathematics chosen with the consent of the students GFAC.)
 - d) Courses from Manufacturing Engineering 15 hours
 - e) Report 6 hours

- ◆ Coursework Only Option (36 hours)
 - a) Courses required of all students 9 hours
(Three hours from each of three areas listed below.)
 - b) Elective courses prescribed None
 - c) Courses elected by students 6 hours
(Six hours from business, mechanical or electrical engineering, computer science or mathematics chosen with the consent of the students GFAC.)
 - d) Courses from Manufacturing Engineering 21 hours

- ◆ Leveling Courses

Students whose undergraduate major is not manufacturing engineering are required to take some leveling courses from the list given below with approval of the students Graduate Faculty Advisory Committee. Leveling courses are determined for each student by the students advisory committee based on his/her course background and experience in manufacturing.

MECE 1221 Engineering Graphics

MECE	2340	Fundamentals of Industrial Engineering
MANE	3332	Engineering Statistics
MANE	3364	Manufacturing Processes
MATH	1401	Calculus I
MATH	1402	Calculus II
MATH	3349	Differential Equations
MECE	2440	Engineering Materials
MECE	2303	Statics
MECE	2304	Dynamics
ELEE	3305	Electrical Systems

- ◆ Manufacturing Engineering Courses

Students are required to take at least one course from each of the three areas given below. Remaining 15-27 hours depending on the option (thesis, report or coursework only) may be taken from any of the three areas in manufacturing engineering. Courses should be approved by the students Graduate Faculty Advisory Committee.

Quality

MANE	6311	Advanced Quality Control
MANE	6313	Design of Experiments
MANE	6315	Reliability Engineering
MANE	6354	Advanced Engineering Economics
MANE	6319	Quality Management Systems

Design

MANE	6323	Advanced Computer-Aided Design
MANE	6365	Tool Design and Analysis
MANE	6369	Mold Design and Analysis
MANE	6346	Polymer Engineering
MANE	6375	Human Factors
MANE	6372	Advanced Engineering Analysis
MANE	6357	Ergonomics
MANE	6364	Advanced Manufacturing Processes
MANE	6368	Logistics Engineering
MANE	6383	Polymer Systems
MANE	6384	Polymer Structures
MANE	6385	Plastic Product Design

Systems

MANE	6321	Robotics and Automation
MANE	6328	Dynamic Systems Modeling
MANE	6331	Advanced Manufacturing Planning and Control
MANE	6340	Operations Research and Analysis
MANE	6342	Engineering Decision Support Systems
MANE	6343	Queueing Models for Manufacturing Systems
MANE	6348	Systems Engineering
MANE	6352	Simulation of Manufacturing Systems
MANE	6380	Engineering Project Management

Students may enroll in engineering project or thesis depending on the option-thesis or report. Topics in

Manufacturing Engineering (MANE 6399) may be taken as part of the 15-27 hours of coursework required for graduation.

◆ Courses for Concentration in Systems Engineering with the Thesis Option

Students who want to receive a Concentration in Systems Engineering and complete a research thesis must complete a list of prescribed courses to receive the Concentration in Systems Engineering. The courses include subject matter specific to the practice of Systems Engineering.

CSCI	6340	Software Engineering
MANE	6304	Industrial Cost Analysis
MANE	6315	Reliability Engineering
MANE	6319	Quality Management Systems (or
MANE	6368	Logistics Engineering)
MANE	6340	Operations Research
MANE	6345	Engineering Management (or MANE
		6365 Human Factors)
MANE	6348	Systems Engineering
MANE	6352	Simulation of Manufacturing Systems
MANE	6380	Engineering Project Management
MANE	7300	Thesis I
MANE	7301	Thesis II

◆ Courses for Concentration in Systems Engineering with the Coursework Option

Students who want to receive a Concentration in Systems Engineering with a coursework option must complete a list of prescribed courses to receive the Concentration in Systems Engineering. The courses include subject matter specific to the practice of Systems Engineering.

CSCI	6340	Software Engineering
MANE	6304	Industrial Cost Analysis
MANE	6315	Reliability Engineering
MANE	6319	Quality Management Systems
MANE	6340	Operations Research
MANE	6345	Engineering Management
MANE	6348	Systems Engineering
MANE	6352	Simulation of Manufacturing Systems
MANE	6357	Ergonomics
MANE	6365	Human Factors
MANE	6368	Logistics Engineering
MANE	6380	Engineering Project Management

◆ Engineering Practicum/Thesis/Topics in Manufacturing Engineering

MANE	6399	Topics in Manufacturing Engineering (<i>May be repeated for credit when topic changes.</i>)
MANE	6190	Engineering Project
MANE	6290	Engineering Project
MANE	6390	Engineering Project

(*May be repeated for credit.*)

MANE 7300 Thesis

(*May be repeated for credit until completing thesis work.*)

Course Descriptions

A listing of graduate course offerings in manufacturing engineering can be found in the Course Descriptions beginning on page 213.

Master of Science in Engineering Management

Graduate Program Overview

The University of Texas-Pan American offers a graduate program in engineering management leading to a Master of Science. The department offers thesis, report and non-thesis options. The manufacturing engineering department is transitioning this program to an online delivery mode. Additionally, a Concentration in Systems Engineering is available for students interested in qualifications in Systems Engineering.

The engineering management major is designed for students to develop an understanding of the engineering relationships between the management tasks of planning, organization, leadership, control and the human element in production, research and service organizations. There are strong synergies between the MS in engineering management, the MS in computer science and information technology, the existing MSE programs in electrical engineering, manufacturing engineering, mechanical engineering and the College of Business Administration. Students are provided an opportunity to strengthen their technological education and acquire the skills to manage and lead engineers and engineering systems.

The graduate program in engineering management requires 30-36 semester credit hours, 15 of which are required of all students. There are three choices of programs in engineering management: 1) thesis, 2) report and 3) coursework only. The thesis option requires 24 hours of coursework and six hours of thesis. The 24 hours of coursework is divided into 15 hours of required coursework, 9 - 15 hours of engineering management electives and 0 - 6 hours of non-engineering management electives. The report option requires 30 hours of coursework and six hours of report. The 30 hours of coursework is divided into 15 required hours, 6 - 15 hours of engineering management electives and 0 - 9 hours of non-engineering management electives. The coursework only option requires 36 hours of coursework divided into 15 required hours, 9- 21 hours of engineering management electives and 0 - 12 hours of non-

engineering management electives.

For those students interested in a Concentration in Systems Engineering there is a prescribed list of courses required for the thesis option and for the coursework option. With the Concentration in Systems Engineering, the thesis option requires 33 hours and the coursework option requires 36 hours. The report option is not available with a Concentration in Systems Engineering.

Students make an oral presentation on the thesis, the report or a project for coursework option to the faculty advisory committee. Students not enrolled in the thesis option must satisfactorily pass a written test to complete the requirements for the Master of Science in engineering management.

The thesis option gives students an opportunity to pursue research and continue their studies at the doctoral level. The engineering practicum with report option is designed to help practicing engineers or engineering managers with managing engineers and engineering systems. The coursework option is designed to provide technical breadth. The coursework only path is designed to meet the needs of practicing engineers and engineering managers who do not intend to pursue further graduate studies.

Students may be required to take some leveling courses to satisfy prerequisites, depending on their undergraduate major and experience. The departmental graduate adviser or the students Graduate Faculty Advisory Committee (GFAC) specifies each students leveling work.

Admission to the Engineering Management Program

The student must first meet all requirements for graduate admission to UT Pan American (see page 17), as well as the other requirements listed below for clear admission to the program. Application for admission must be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office. Entry requirements include:

1. A grade point average of 3.0 or higher (on a 4.0 scale) for the last 60 hours.
2. A bachelor's degree in engineering.
3. A minimum of two years of engineering experience,
4. Completion of MANE 2340 Fundamentals of Industrial Engineering, MANE 3332 Engineering Statistics, MANE 3337 Engineering Economics or equivalent courses.
5. For foreign national students whose primary language is not English, a score on the Test of English as a Foreign Language (TOEFL) of 500 and
6. Successfully completed all requirements for changing from probationary to clear admission (if applicable).

Degree Requirements

- ◆ Thesis Option

a) Courses required of all students	15 hours
b) Electives prescribed for the students	None
c) Engineering Management electives	9-15 hours
d) Other: Thesis	6 hours
TOTAL SCH	30 hours

- ◆ Engineering Practicum Option

a) Courses required of all students	15 hours
b) Electives prescribed for the students	None
c) Engineering Management electives	6-15 hours
d) Non-Engineering Management electives	0-9 hours
e) Other	None
TOTAL SCH	36 hours

- ◆ Coursework Option

a) Courses required of all students	15 hours
b) Electives prescribed for the students	None
c) Engineering Management electives	9-21 hours
d) Non-Engineering Management electives	0-12 hours
e) Other	None
TOTAL SCH	36 hours

◆ Coursework for Concentration in Systems Engineering with Thesis Option

Students who want to receive a Concentration in Systems Engineering and complete a research thesis must complete a list of prescribed courses to receive the Concentration in Systems Engineering. The courses include subject matter specific to the practice of Systems Engineering.

CSCI	6340	Software Engineering
MANE	6304	Industrial Cost Analysis
MANE	6315	Reliability Engineering
MANE	6319	Quality Management Systems (or
MANE	6368	Logistics Engineering)
MANE	6340	Operations Research
MANE	6345	Engineering Management (or MANE 6365 Human Factors)
MANE	6348	Systems Engineering
MANE	6352	Simulation of Manufacturing Systems
MANE	6380	Engineering Project Management
MANE	7300	Thesis I
MANE	7301	Thesis II

◆ Coursework for Concentration in Systems Engineering with Coursework Option

Students who want to receive a Concentration in Systems Engineering with a coursework option must complete a list of prescribed courses to receive the Concentration in Systems Engineering. The courses include subject matter specific to the practice of Systems Engineering.

CSCI	6340	Software Engineering
MANE	6304	Industrial Cost Analysis
MANE	6315	Reliability Engineering
MANE	6319	Quality Management Systems
MANE	6340	Operations Research
MANE	6345	Engineering Management
MANE	6348	Systems Engineering
MANE	6352	Simulation of Manufacturing Systems
MANE	6357	Ergonomics
MANE	6365	Human Factors
MANE	6368	Logistics Engineering
MANE	6380	Engineering Project Management

◆ Leveling Courses

MANA	2340	Fundamentals of Industrial Engineering
MANE	3332	Engineering Statistics (or MATH 4339)
MANE	3337	Engineering Economy

As an alternate, students may take MANE 6301 and MANE 6302 to satisfy the leveling course requirements.

◆ Courses Required of All Students

MANE	6304	Industrial Cost Systems
MANE	6319	Quality Management Systems
MANE	6340	Operations Research and Analysis
MANE	6345	Engineering Management
MANE	6380	Engineering Project Management

◆ Engineering Management Electives

MANE	6311	Advanced Quality Control
MANE	6313	Design of Experiments
MANE	6315	Reliability Engineering
MANE	6331	Advanced Manufacturing Planning and Control
MANE	6341	Advanced Operations Research and Analysis
MANE	6342	Decision Support Systems
MANE	6343	Queueing Models for Manufacturing Systems
MANE	6347	Facilities Layout
MANE	6348	Systems Engineering
MANE	6349	Advanced Work Science
MANE	6352	Simulation of Manufacturing Systems
MANE	6354	Advanced Engineering Economy
MANE	6357	Ergonomics
MANE	6364	Advanced Manufacturing Processes
MANE	6368	Logistics Engineering
MANE	6383	Polymer Systems
MANE	6384	Polymer Structures
MANE	6385	Plastic Product Design
MANE	6399	Topics in Manufacturing Engineering (may be repeated for credit when the topic changes)

◆ Non-Engineering Management Electives

Engineering management students may select additional graduate elective courses other than the courses listed under

engineering management electives with their committees approval. Thesis students are limited to six hours of non-engineering management electives and coursework option students are limited to 12 hours of non-engineering management electives.

Students may elect to strengthen their technical education by selecting non-engineering management graduate courses offered by the College of Science and Engineering. Students desiring to strengthen their education in management may enroll in graduate courses offered by the College of Business Administration (COBA). A partial list of electives from the COBA is shown below:

FINA	6340	Financial Administration
MANA	6330	Management
MANA	6331	Personnel Administration and Industrial Relations
MANA	6332	Organizational Leadership and Change
MANA	6334	International Management
MANA	6335	Organizational Theory
MANA	6360	Production Management and Operations Management

◆ Engineering Practicum/Thesis Courses

MANE	6190	Engineering Project
MANE	6290	Engineering Project
MANE	6390	Engineering Project
MANE	7300	Thesis

(may be repeated for credit)

Course Descriptions

A listing of graduate course offerings in engineering management can be found in the manufacturing engineering course descriptions beginning on page 212.

Mechanical Engineering

Dr. Robert Freeman, *Interim Department Chair*
Engineering Building, Room 3.222A
Telephone: 956/381-2381
Fax: 956/381-3527
E-mail: rafree@utpa.edu

Dr. Constantine Tarawneh,
Graduate Program Director
Engineering Building, Room 3.228
Telephone: 956/381-2607
Fax: 956/381-3527
E-mail: tarawneh@utpa.edu

Mechanical Engineering Faculty
Ahn, Seokyoung, *Assistant Professor,*
Model-Based MIMO Control Design,
Nonlinear Estimation and Filtering Algorithms
and Rapid Response Manufacturing
Crown, Stephen, *Associate Professor,*
Applied Thermodynamics, Refrigeration,
Heat Transfer and Multimedia Instructional Methods
Freeman, Robert A., *Professor,*
Kinetic and Dynamic Modeling,
Analysis, Design and Control of Multi-Rigid-Body Linkage Systems,
Robotics and Biomechanics
Fuentes, Arturo, *Assistant Professor,*
Dynamic Response Analysis, FEA and Engineering Education
Jones, Robert E., *Associate Professor,*
Polymers and Composites, Fracture Mechanics and Materials Testing
Kypuros, Javier, *Assistant Professor,*
Dynamic Systems Modeling and Control, Nonlinear Control Systems,
Bond Graph Modeling and Control of Morphing Structures
Lozano, Karen, *Associate Professor,*
Process-Structure-Property Relationships of Nanoreinforced Systems
Qubbaj, Ala, *Associate Professor,*
Thermal Systems and Energy and Combustion
Tarawneh, Constantine, *Assistant Professor,*
Acoustics and Vibrations, Mechanical Measurements
and Instrumentation and Thermal/Fluid
Vasquez, Horacio, *Assistant Professor,*
Automation, Instrumentation, Control Systems
and Mechatronics

Master of Science in Engineering: Mechanical Engineering

The Mechanical Engineering Department offers a graduate program leading to a Master of Science in engineering degree. The program has a thesis option, a project with report option and a course option. Coursework is offered in areas including mechanics and design, materials and thermal/fluid sciences. Potential research opportunities exist in combustion, nanotechnology, smart structures, biomechanics, robotics, mechatronics, acoustics and vibrations, materials science, solid mechanics and laser material processing.

Admission to the Mechanical Engineering Program

The student must first meet all requirements for graduate admission to UT Pan American ([see page 17](#)), as well as the other requirements listed below. Application for admission must be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

For unconditional admission the student must:

(1) Have a bachelor's degree in mechanical engineering or related area with a grade point average of 2.75 or higher on a 4.0 scale.

(2) Attach or request through their online application three letters of recommendation attesting to the applicants academic potential and capability for performing graduate-level work in mechanical engineering.

Applicants who do not satisfy the specific program criteria above will be considered for conditional admission. Those with bachelor's degree in a field other than mechanical engineering may be admitted subject to completion of a set of undergraduate leveling courses prescribed by the graduate program director. Students admitted conditionally must successfully complete all leveling courses, if any, and successfully complete their first six hours of graduate work with a grade of B or higher.

Degree Requirements

◆ Thesis Option (30 hours total)
This option requires 24 hours of regular coursework plus six hours of thesis, selected as follows:

A.	MECE	6310	Intermediate Engineering Analysis (3 hours)
B.	Six hours of Thesis		
	MECE	7300	Masters Thesis I
	MECE	7301	Masters Thesis II

C. Twenty-one hours of additional courses chosen with the consent of the students adviser. At least 15 hours must be in mechanical engineering, and up to six hours may be selected from other programs within the College of Science and Engineering, but must be approved by the students adviser and the graduate program director.

◆ Report Option (36 hours total)
A. MECE 6310 Intermediate Engineering Analysis (3 hours)

B.	Six hours of project report:		
	MECE	6397	Masters Report I
	MECE	6398	Masters Report II

C. Twenty-seven hours of additional courses chosen with the consent of the students adviser. At least 21 hours

must be in mechanical engineering, and up to six hours may be selected from other programs within the College of Science and Engineering, but must be approved by the students adviser and the graduate program director.

- ◆ Non-Thesis Option (36 hours)
 - A. MECE6310 Intermediate Engineering Analysis (3 hours)

B. Thirty-three hours of additional courses chosen with the consent of the students adviser. At least 27 hours must be in mechanical engineering, and up to six hours may be selected from other programs within the College of Science and Engineering, but must be approved by the graduate program director.

Course Descriptions

A listing of mechanical engineering graduate courses offered by the Department of Engineering can be found in the Course Descriptions section of this catalog on page 221.

Graduate Certificate Programs in Mechanical Engineering: Mechanics and Design, Materials and Thermal-Fluid Sciences

Mission Statement

The Department of Mechanical Engineering will provide students and professionals a quality education to prepare them for the practice of engineering.

Background

Students and professionals interested in obtaining additional broad-based technical education in a selected mechanical engineering area of concentration will have the option of pursuing a graduate certificate program. The current mechanical engineering research and graduate teaching areas include: mechanics and design, materials, and thermal-fluid sciences.

The certificate program is a professional-oriented program designed for individuals who possess at least one degree in engineering or closely-related field.

From the students point of view, a certificate program will guarantee a valuable learning experience for professional development.

From the industry's viewpoint, the program is structured so that their professionals contribute to their organizations mainstream goals.

Certificate Programs Overview

Twelve hour program (four graduate courses coursework will be for a grade).

UTPA undergraduate students are eligible to enroll in courses upon graduation.

Students who are not currently enrolled at must first meet all requirements for graduate admission to UT Pan American (see page 17), as well as the other requirements listed below. Application for admission must be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

For unconditional admission the student must:

(1) Have a bachelor's degree in mechanical engineering or related area with a grade point average of 2.75 or higher on a 4.0 scale.

(2) Attach or request through their online application three letters of recommendation attesting to the applicants academic potential and capability for performing graduate-level work in mechanical engineering.

Applicants who do not satisfy the specific program criteria above will be considered for conditional admission. Those with a bachelor's degree in a field other than mechanical engineering may be admitted subject to completion of a set of undergraduate leveling courses prescribed by the graduate program director. Students admitted conditionally must successfully complete all leveling courses, if any, and successfully complete their first six hours of graduate work with a grade of B or higher.

Most of the mechanical engineering graduate courses are offered during the evening convenient for working professionals and the number of courses offered may vary per semester.

Students receive a certificate upon completion of four graduate courses at UTPA in a chosen area from the mechanical engineering graduate courses list with a minimum cumulative GPA of 3.0 in the four courses.

All courses for the certificate must be taken at the Department of Mechanical Engineering. Transfer graduate courses are NOT considered for the certificate.

The maximum time limit for completion of the certificate program is four years. There is no fifth year; a student must start with four new graduate courses to earn his/her certificate.

The credit for classes may be applied toward the Master of Science in mechanical engineering should the student decide later to pursue an advanced degree. For instance, obtaining three different certificates will grant the professional masters degree in mechanical engineering.

◆ Certificate programs will be available in the following areas:

Mechanics and Design.

Choose four, three-unit courses:

• MECE 6310, MECE 6329, MECE 6331, MECE 6332, MECE 6333, MECE 6339, MECE 6341, MECE 6342, MECE 6343, MECE 6344, MECE 6360, MECE 6362, MECE 6399.

Materials.

Choose four, three-unit courses:

• MECE 6310, MECE 6318, MECE 6319, MECE 6320, MECE 6321, MECE 6322, MECE 6323, MECE 6324, MECE 6325, MECE 6326, MECE 6327, MECE 6328, MECE 6329, MECE 6362, MECE 6399.

Thermal-Fluid Sciences

Choose four three-unit courses:

• MECE 6310, MECE 6341, MECE 6342, MECE 6362, MECE 6372, MECE 6373, MECE 6375, MECE 6380, MECE 6384, MECE 6399.

U.S. Citizenship and Immigration Services Considerations

Mexican nationals who will be living in Mexico while studying at UTPA are considered border commuter students. Border commuter students can apply for a student visa to study partial time at UTPA. However, international students, including Mexican nationals, who will be living in the United States while studying, can only apply for a student visa to study full time at UTPA (at least nine credits/semester). For more information, please contact:

Dr. Constantine Tarawneh, *Graduate Program Director*
Department of Mechanical Engineering
Telephone: 956/381-2607
E-mail: tarawneh@utpa.edu

Mathematics

Dr. Lokenath Debnath, *Department Chair*
Mathematics and General Classroom Building
Room 3.202
1201 University Drive
Edinburg, TX 78539-2999
Telephone: 956/381-3452
Fax: 956/384-5091
E-mail: debnathl@utpa.edu

Dr. Paul Bracken, *Graduate Coordinator*
Mathematics and General Classrooms Building
Room 3.606

Telephone: 956/381-3457

E-mail: bracken@utpa.edu

Graduate Faculty

Balogh, Andras, *Associate Professor*
Bede, Barnabas, *Assistant Professor*
Bernard, John E., *Professor*
Bhatta, Dambaru, *Associate Professor*
Bracken, Paul, *Associate Professor*
Chakraborty, Santanu, *Assistant Professor*
Debnath, Lokenath, *Professor and Department Chair*
Feng, Baofeng, *Associate Professor*
Feng, Zhaosheng, *Assistant Professor*
Galstyan, Anahit, *Assistant Professor*
Gkioulekas, Eleftherios, *Assistant Professor*
Maruno, Kenichi, *Assistant Professor*
Mukherjea, Arunava, *Professor*
Nguyen, Mau Nam, *Assistant Professor*
Onica, Constantin, *Assistant Professor*
Pierce, Virgil U., *Assistant Professor*
Poletaeva, Elena, *Assistant Professor*
Riahi, Daniel, *Professor*
Roy, Ranadhir, *Assistant Professor*
Roychowdhury, Mrinal K., *Assistant Professor*
Taylor, Monty B., *Professor*
Tsay, Jenq-Jong, *Assistant Professor*
Varlamov, Vladimir, *Associate Professor*
Villalobos, Maria Cristina, *Associate Professor*
Wang, Xiaohui, *Assistant Professor*
Watkins, William T., *Professor*
Yagdjian, Karen, *Associate Professor*
Yanev, George, *Assistant Professor*
Yoon, Jasang, *Assistant Professor*

Master in Mathematics Graduate Program

The Department of Mathematics offers a 36-hour master's degree program which can be completed in one of three ways:

(a) A 36-hour non-thesis program completed with coursework leading to a Master of Science in mathematics.

(b) A 36-hour coursework-research project program completed by taking Research Report, MATH 6390 (three hours for project).

(c) A 36-hour coursework-thesis program completed by taking Thesis, MATH 7300 and MATH 7301 (six hours for thesis).

An 18-hour core is required of all students; additionally, students must complete 18 hours in a concentration area. A masters in applied mathematics has also been added recently, a new option in the current master's program.

All students applying for admission to this program must meet all University requirements for entrance into graduate studies and hold a bachelor's degree in mathematics or a related field.

Objectives of the Program

Educational objectives for the Mathematics Teaching Option:

1. To provide instruction for secondary mathematics teachers to upgrade their knowledge of mathematics and to improve their pedagogical skills.
2. To prepare secondary mathematics teachers to become leaders within their school district in the areas of mathematics curriculum and instruction.
3. To prepare students for advanced graduate study in mathematics education.

Educational objectives for the Mathematical Sciences Option:

1. To provide the mathematics content needed for a student to pursue a career in professional areas requiring advanced mathematics.
2. To prepare students for advanced graduate study in mathematics.

Degree Requirements

Core Courses 18 hours

MATH 6331	Algebra I
MATH 6332	Algebra II
MATH 6352	Analysis I
MATH 6353	Analysis II
MATH 6365	Probability and Statistics
MATH 6387	Mathematical Modeling

Designated Electives 18 hours

Mathematical Sciences Concentration

Select four courses from the following:

MATH 6330	Linear Algebra
MATH 6337	Advanced Number Theory
MATH 6359	Applied Analysis
MATH 6360	Ordinary Differential Equations
MATH 6361	Partial Differential Equations
MATH 6362	Fourier Analysis
MATH 6364	Statistical Methods
MATH 6370	Topology
MATH 6375	Numerical Analysis
MATH 6376	Numerical Methods for Partial Differential Equations
MATH 6385	Cryptology and Codes
MATH 6388	Discrete Mathematics
MATH 6391	Masters Project
MATH 7300	Thesis
MATH 7301	Thesis

Select an additional six hours of approved electives.

Mathematics Teaching Concentration

The following courses are required:

MATH 6308	Teaching of Algebraic Concepts
MATH 6310	Topics in Mathematics Teaching

MATH 6312 Teaching of Geometric Concepts
MATH 6390 Mathematics Seminar
Select an additional six hours of approved electives.

Master of Science in Applied Mathematics: Thesis and Non-Thesis Options

This is a new option in the current master's program.

A thesis option accommodates a six-hour thesis requirement by reducing the designated elective requirement from 15 hours to 12 (nine hours).

Degree Requirements

◆ Non-Thesis Option

Core Courses

Complete the following five courses:

MATH 6352	Analysis I
MATH 6360	Ordinary Differential Equations
MATH 6387	Modeling
MATH 6330	Linear Algebra
MATH 6359	Applied Analysis

Designated Electives

Complete five courses selected from the following:

MATH 6361	Partial Differential Equations
MATH 6362	Fourier Analysis
MATH 6388	Discrete Mathematics
MATH 6375	Numerical Analysis
MATH 6376	Numerical Methods for Partial Differential Equations
MATH 6385	Cryptology and Codes
MATH 6455	Applied Mathematics I
MATH 6456	Applied Mathematics II

Free Electives

Select an additional six hours of approved electives.

◆ Thesis Option

Core Courses

Complete the following five courses:

MATH 6352	Analysis I
MATH 6360	Ordinary Differential Equations
MATH 6387	Modeling
MATH 6330	Linear Algebra
MATH 6359	Applied Analysis

Designated Electives

Complete three courses selected from the following:

MATH 6361	Partial Differential Equations
MATH 6362	Fourier Analysis
MATH 6388	Discrete Mathematics
MATH 6375	Numerical Analysis
MATH 6376	Numerical Methods for

		Partial Differential Equations
MATH	6385	Cryptography and Codes
MATH	6455	Applied Mathematics I
MATH	6456	Applied Mathematics II

Free Electives

Select an additional six hours of approved electives.

Thesis

MATH	7300	Thesis I
MATH	7301	Thesis II

Course Descriptions

A listing of graduate courses offered by the Department of Mathematics can be found in the Course Descriptions section of this catalog beginning on page 217.

Physics and Geology

Department of Physics and Geology
 Physical Science Building, Room 175
 1201 W. University Drive
 Edinburg, TX 78539-2999
 Telephone: 956/381-3531
 Fax: 956/381-2423

Dr. Muhammad Bhatti
Graduate Program Director
 Physical Science Building, Room 141
 Telephone: 956/381-2393
 Fax: 956/381-2423
 E-mail: bhatti@utpa.edu

Graduate Faculty
 Bhatti, Muhammad, *Professor*
 Chipara, Mircea, *Assistant Professor*
 Corpuz, Edgar, *Assistant Professor*
 Dimakis, Nikolaos, *Assistant Professor*
 Hanna, Mohammad A., *Associate Professor*
 Lin, Yuankun, *Assistant Professor*
 Mazariegos, Rubén, *Associate Professor*
 Zeng, Liang, *Associate Professor*

General Overview

Physics in the Rapidly Changing World

New developments in physics have been occurring every day and the field is being rejuvenated due to newest discoveries. More and more companies are looking for applicants with increasingly sophisticated skills in

physics. As the pace of advances in science and technology accelerates, physics education has become increasingly important in areas of science and its applications. Furthermore, the Rio Grande Valley is experiencing a shortage of qualified physics teachers in the public schools and community colleges.

Graduate Program of Study

The Department of Physics and Geology offers a 36-hour program leading to a Master of Science in Interdisciplinary Studies (MSIS) in physics education with thesis and non-thesis options. These options are designed to prepare students in their pursuit of further professional development and for interdisciplinary graduate studies in their area of concentration in physics.

NOTE: All the prospective students must have science background to enroll in the MSIS in physics education program. Requirements: 16-18 hours of physics courses must be required (including PSCI 1421, PSCI 1422, PHYS 1401 and PHYS 1402 and advanced physics hours) for students/teachers coming from other disciplines.

All students complete a core curriculum. Students in the physics concentration select electives from a collection of courses designed to enhance and develop further skills in science education. Courses are normally offered in the evening, online and during the summer sessions providing greater flexibility in the offerings for part-time teachers and students.

Applications and Contact Information

Admission is possible in all semesters. Students applying for admission to this program must meet the University's grade point average requirement hold a bachelor-level degree and have 16-18 hours of physics background. For further information, visit our home page at www.panam.edu/dept/physci or contact:

MSIS Graduate Program Coordinator
 Department of Physics and Geology
 The University of Texas-Pan American
 1201 W. University Drive
 Edinburg, TX 78539-2999
 Telephone: 956/381-3521 (Main Office)
 Fax: 956/381-2423

Master of Interdisciplinary Studies (MSIS) Degree in Physics Education Non-Thesis

Core Courses:	Physics Content	12 hours
PHYS	5404	Physics by Inquiry I
PHYS	5405	Physics by Inquiry II (prerequisite PHYS 5404)
PHYS	6400	Astronomy by Sight (prerequisite PHYS 5405)

Electives: Non-Thesis Option 6 hours

Select any two courses:

PHYS	6301	Topics in Physics for Teachers (prerequisite PHYS 6400)
PHYS	6302	Environmental Physics for Teachers (prerequisite PHYS 6301)
PHYS	6303	Quantum Information
GEOL	5301	Geology and Geography
GEOL	6302	Meteorology and Oceanography
GEOL	6410	GeoScience for Teachers

Education 9/12 hours

EDCI	6301	Instructional Technology
EDCI	6302	Multicultural Education
EDCI	6307	Research Issues and Trends in Education
		or
EDCI	6308	Practicum for Secondary Education
SCIE	6303	Recent Development Applied Science
EDCI	6306	Special Projects
EDCI	6305	Education Curriculum
EDCI	6310	Research Methods in Education

Mathematics 9/12 hours in any of the areas

MATH	6308	Teaching of Algebraic Concepts
MATH	6310	Topics in Mathematics Teaching
MATH	6312	Teaching in Geometric Concepts
MATH	6390	Mathematics Seminar
MATH	6328	Integrated Problem-Solving Transition Geometry Transition in Problem-Solving Transition Algebra

Educational Psychology 9/12 hours in
Gifted Education

EPSY	6330	Identifying the Gifted and Talented
EPSY	6331	Curriculum and Materials for the Gifted and Talented
EPSY	6332	Creativity and the Gifted and Talented
EPSY	6333	Counseling for the Gifted and Talented
EPSY	6342	Seminars in Gifted Education

Course Descriptions

A listing of graduate courses offered by the Department of Physics and Geology can be found in the Course Description section of this catalog beginning on page 235 (physics) and 206 (geology). All physics and geology courses require graduate standing before enrollment.



COLLEGE OF SOCIAL AND BEHAVIORAL SCIENCES

General Overview

The College of Social and Behavioral Sciences is composed of seven departments and programs: Criminal Justice, Global Security Studies, Military Science, Political Science, Psychology and Anthropology, Public Administration, and Sociology.

Academic Programs

The College of Social and Behavioral Sciences offers the Master of Arts degree in psychology, the Master of Science in criminal justice and sociology, and the Master of Public Administration, a professional preparation program for public service in governmental agencies.

Graduate majors in psychology may select a clinical or an experimental concentration. Students who wish to pursue graduate study in anthropology may opt for a Master of Arts degree in interdisciplinary studies with a concentration in anthropology. Students with an interest in global security may pursue a Master of Arts degree in interdisciplinary studies with a concentration in Global Security Studies and Leadership. Students in the sociology graduate program may choose a general sociology focus or a concentration in regional studies or health and aging.

In addition, the college provides support to graduate programs in other colleges by providing several key graduate courses.

The college also offers the Bachelor of Arts in anthropology, general studies, political science, psychology, and sociology; the Bachelor of Science in psychology; and Bachelor of Science in criminal justice.

Students may minor in anthropology, criminal justice, global security studies, military science, political science, psychology or sociology.

Additionally, the Department of Military Science provides Army ROTC training that can lead to commissioning in the Army, Army Reserve or National Guard.

Dr. Van Reidhead, *Dean*

Social and Behavioral Sciences Building, Room 234
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: 956/381-3551
Fax: 956/381-2180
Web: <http://www.utpa.edu/csbs>

Dr. Kristin Croyle, *Assistant Dean*

Dr. Gary Montgomery, *Assistant Dean*

Social and Behavioral Sciences Building, Room 234
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: 956/381-3551
Fax: 956/381-2180

Criminal Justice

Dr. S. George Vincentnathan, *Department Chair*

Social and Behavioral Sciences Building, Room 321
1201 West University Drive
Edinburg, TX 78539-2999
Telephone: 956/381-3566
Fax: 956/381-2490
E-mail: gvincent@utpa.edu

Dr. Joseph Appiahene-Gyamfi, *Graduate Program Director*

Social and Behavioral Sciences Building, Room 319A
Telephone: 956/316-7061 or 381-3566
Fax: 956/381-3680
E-mail: appiahen@utpa.edu

Graduate Faculty

Appiahene-Gyamfi, Joseph, *Associate Professor*
Dearth, Daniel K., *Associate Professor*
Ethridge, Philip, *Associate Professor*
Resendez, Rosalva, *Associate Professor*
Vincentnathan, S. George, *Professor*
Vincentnathan, Lynn, *Assistant Professor*
White, Thomas, *Assistant Professor*

Overview

The Master of Science (MS) in criminal justice is designed to accomplish the following educational objectives:

- Enhance the students competence in the content, principles, and methods of criminal justice.
- Prepare students for administrative and management positions in federal, state and local criminal justice agencies.
- Prepare students for entry-level positions requiring graduate degrees, such as federal probation, parole and law enforcement agencies.
- Prepare students for academic study beyond the masters degree.
- Develop, through faculty and graduate research, a criminal justice knowledge base concerning issues unique to the region, including Mexico and South America.
- Provide a resource for federal, state and local criminal justice agencies in need of administrative assistance in policy analysis, development and program evaluation.

Admission Requirements

Applicants must:

1. Meet all requirements for graduate admission to UT Pan American (see Page 17), as well as the other requirements listed below. Application for admission must be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.
2. Have demonstrated academic preparation for graduate work in criminal justice. This preparation would be shown by (a) a bachelor's degree in criminal justice, criminology, corrections, police administration or closely related field, or (b) a bachelor's degree in another field and graduate or advanced undergraduate courses in the following areas: political science, psychology, public administration, social work or sociology, and (c) undergraduate coursework in research methods and criminological theory.
3. (For students who would meet graduate studies admission criteria without a GPA of 3.0.) Have a grade point average of 2.75 or higher on a 4.0 scale for the last 60 semester hours or 90 quarter hours of undergraduate courses completed, as shown on official transcripts.

Applicants should consult with the departments graduate program director for additional program admissions requirements, including required admission materials.

Degree Requirements

The Master of Science degree in criminal justice requires the successful completion of a total of 36 graduate semester hours. In addition, all students must pass a comprehensive written examination, testing knowledge from the core courses.

Students are expected to make satisfactory progress in the program. All students must maintain an overall 3.0 grade point average in all graduate courses and have no more than two grades of C in the core.

Core Courses

CRIJ	6301	Criminal Justice System
CRIJ	6302	Crime, Criminal Behavior and Criminology
CRIJ	6303	Criminal Justice Policy Analysis
CRIJ	6304	Law, Courts and Criminal Procedure
CRIJ	6305	Criminal Justice Organizational Theory and Behavior
CRIJ	6306	Criminal Justice Research Methods I
CRIJ	6307	Criminal Justice Research Methods II

Electives

In addition to the core courses, students will complete a minimum of nine hours of electives, six of which may come

from graduate courses in related disciplines (outside the Department of Criminal Justice) approved by the graduate program director. The criminal justice electives are as follows:

CRIJ	6308	Seminar on Juvenile Issues
CRIJ	6309	Seminar on Courts and Correctional Issues
CRIJ	6310	Seminar on Law Enforcement Issues
CRIJ	6311	Seminar on Comparative Criminal Justice Issues
CRIJ	6312	Independent Research or Studies
CRIJ	6313	Special Topics (may be repeated once if a new topic)
CRIJ	7101	One-Hour Thesis Course

Other

Finally, to complete their degree, students must choose from one of three options: Thesis, applied project, or six hours of graduate courses approved by the graduate program director.

CRIJ	7301	Thesis
	7302	Thesis
		or
CRIJ	7303	Applied Research Project
	7304	Applied Research Project

Final Requirement

Students must pass a comprehensive written examination in all the core courses.

Course Descriptions

A listing of graduate courses offered by the Department of Criminal Justice can be found in the Course Descriptions section of this catalog beginning on Page 181.

Master of Arts in Interdisciplinary Studies, Global Security Studies and Leadership (GSSL)

Lamar Campus Complex 121
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: 956/388-8088
E-mail: castelanov@utpa.edu
Web: www.utpa.edu/igknu

Graduate Faculty
Brickman, Stephanie, Associate Professor
Chen, Xi, Assistant Professor
Hansmann, Sandra, Assistant Professor
Tarawneh, Constantine, Assistant Professor

General Overview

The Global Security Studies and Leadership (GSSL) graduate program prepares students for careers in intelligence, national security and other sectors of the global economy through advanced interdisciplinary studies. This program will broaden the skill sets of students through focus on advanced research, effective cross-discipline team communication and critical analysis. Given that jobs in government or private industry often require multidisciplinary cooperation, the GSSL program will prepare students to work with people from different backgrounds, abilities, and knowledge bases. With this approach, students will have the opportunity to gain the perspective and proficiency of multiple disciplines.

Degree Requirements

Core Courses

12 hours	
GSSL 5300	Introduction to Global Security Studies
GSSL 5305	Open Source Research
GSSL 5310	Interdisciplinary Research in Business and Science/Engineering
	OR
GSSL 5320	Interdisciplinary Research in Social Sciences and Health Sciences
GSSL 5330	Practicum in Global Security Studies and Leadership

Specified Interdisciplinary Courses

15 hours	
COMM 6322	Culture and Communication
EPSY 6350	Introduction to Statistics

OR

EPSY 6351	Intermediate Statistics
MANA 6334	International Management
PSY 6340	Multicultural Mental Health

Graduate-level elective course (*see adviser for a list of courses)

Required Technical Competency Courses	9 hours
CSCI 6303	Principles of Information Technology Systems
CSCI 6318	Cyber Security and Forensics
MIS 6391	Information Security and Assurance Management

Course Descriptions

A listing of graduate courses for the GSSL program can be found in the Course Descriptions section of this catalog on Page 207.

Psychology and Anthropology

Dr. Valerie James-Aldridge, *Department Chair*
Social and Behavioral Sciences Building, Room 356
1201 University Drive
Edinburg, TX 78539-2999
Telephone: 956/381-3329
Fax: 956/381-3333
E-mail: wjames@utpa.edu
Web: <http://www.utpa.edu/dept/psych-anth>

Psychology

Web: <http://www.utpa.edu/psychology>

Dr. Philip Gasquoine,
Psychology Graduate Program Director
Education Complex, Room 1.202A
Telephone: 956/381-2155
E-mail: pgasquoine@utpa.edu
Web: <http://www.utpa.edu/dept/gsprogram>

Graduate Faculty
Aldridge, James W., Jr., *Professor*
Benham, Grant, *Associate Professor*
Cain, Roy E., *Associate Professor*
Croyle, Kristin, *Associate Professor*

Eisenman, Russell, *Associate Professor*
 Ernst, Fred, *Professor*
 Gasquoine, Philip, *Associate Professor*
 James-Aldridge, Valerie, *Associate Professor*
 Jou, Jerwen, *Professor*
 Kendrick, Sherrill, *Assistant Professor*
 Montgomery, Gary T., *Professor*
 Rogers, Darrin, *Assistant Professor*
 Weimer, Amy, *Assistant Professor*
 Winkel, Mark H., *Associate Professor*
 Wisener, Robert H. III, *Assistant Professor*

Overview

The Graduate Program in psychology offers four options for students:

- (1) Clinical psychology, thesis option
- (2) Clinical psychology, non-thesis option.
- (3) Experimental psychology, general
- (4) Experimental psychology, Board Certified Behavior Analyst

Students with a master's degree in clinical psychology will be eligible to apply for licensure as a psychological associate and professional counselor in the state of Texas. Students with a master's degree in experimental psychology, Board Certified Behavior Analyst, will be eligible to complete the national examination to become a Board Certified Behavior Analyst. Both experimental and clinical psychology graduates are encouraged to transfer and continue their education in a doctoral psychology program.

Admission Requirements

Applicants must:

1. Meet all requirements for graduate admission to UT Pan American (see Page 17), as well as the other requirements listed below. Application for admission must be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.
2. Have completed at least 12 hours of undergraduate courses in psychology, including PSY 2401. Basic Statistics for Psychologists and PSY 3325. Research Methods in Psychology.
3. Submit official transcripts with a 3.0 GPA on a 4.0 scale for the last 60 hours completed in psychology coursework, and a 3.0 GPA on a 4.0 scale in undergraduate psychology coursework.
4. Provide GRE scores
5. Have submitted three letters of recommendation from individuals who are qualified to judge the students academic and professional potential.
6. Submit a 500-word essay describing their professional goals and objectives and specifying the major option to which they are applying.

7. Submit a résumé of educational background, volunteer and work experience.
- Applicants will only be considered for acceptance to the program option to which they have applied.

Degree Requirements

◆ Thesis Option in Clinical Psychology

A. Core Courses		27 hours
PSY	6305	Advanced Studies in Psychopathology
PSY	6311	Advanced Studies in Personality Theory
PSY	6320	Current Perspectives in Physiological Psychology
PSY	6325	Theoretical Issues in Learning
PSY	6332	Research Design
PSY	6336	Advanced Psychological Measurement
PSY	6340	Multicultural Mental Health
PSY	6363	Contemporary Professional Issues and Ethics in Psychology
EPSY	6350	Introduction to Statistics
B. Clinical Applications		6 hours
PSY	6352	Personality Assessment
PSY	6354	Individual Psychotherapy
C. Supervised Clinical Practice Courses		15 hours
PSY	6364	Clinical Practicum I (repeat twice)
PSY	6368	Internship (480 hours)
PSY	7370	Thesis I
PSY	7372	Thesis II
TOTAL		48 hours

◆ Non-Thesis Option in Clinical Psychology

A. Core Courses		24 hours
PSY	6305	Advanced Psychopathology
PSY	6311	Advanced Studies in Personality Theory
PSY	6320	Current Perspectives in Physiological Psychology
PSY	6325	Theoretical Issues in Learning
PSY	6336	Advanced Psychological Measurement
PSY	6340	Multicultural Mental Health
PSY	6363	Contemporary Professional Issues and Ethics in Psychology
PSY	6301	Psych Statistics
B. Clinical Applications		9 hours
PSY	6352	Personality Assessment
PSY	6354	Individual Psychotherapy
PSY	6356	Group Psychotherapy

C. Designated Electives for licensed professional counselors			6 hours
PSY	6330	Developmental Psychology	
EPSY	6366	Lifestyle and Career Development	
EPSY	6393	Marriage and Family Counseling	

D. Supervised Clinical Practice Courses			9 hours
PSY	6364	Clinical Practicum I (repeat twice)	
PSY	6368	Internship (480 hours)	

Total Hours Required for the Option 48 hours

◆ Option in Experimental Psychology

A. Core Courses			18 hours
PSY	6311	Advanced Studies in Personality Theory	
PSY	6320	Current Perspectives in Physiological Psychology	
PSY	6325	Theoretical Issues in Learning	
PSY	6332	Research Design	
PSY	6336	Advanced Psychological Measurement	
PSY	6301	Psych Statistics	

B. Electives 12 hours
To be selected in conjunction with the graduate adviser.

C. Thesis Requirement			6 hours
PSY	7370	Thesis I	
PSY	7372	Thesis II	

Total Hours Required for the Option 36 hours

Option in Experimental Psychology: Board Certified Behavior Analyst

A. Core Courses			52 hours
PSY	6174	Special Topics in Psychology (repeated four times)	
PSY	6301	Psych Statistics	
PSY	6315	Applied Behavior Analysis	
PSY	6320	Current Perspectives in Physiological Psychology	
PSY	6330	Developmental Psychology	
PSY	6332	Research Design	
PSY	6340	Multicultural Mental Health	
PSY	6350	Behavioral Assessment	
PSY	6352	Personality Assessment	
PSY	6363	Contemporary Professional Issues and Ethics in Psychology	
PSY	6365	Applied Behavior Analysis Practicum I (repeated 5 times)	
PSY	6367	Applied Behavior Analysis Practicum II	
PSY	6376	Directed Studies	

B. Electives 0 hours
No elective hours are required

C. Thesis Requirement			6 hours
PSY	7370	Thesis I	
PSY	7372	Thesis II	

Total Hours Required for the Option 58 hours

All students must complete a comprehensive examination as part of the graduation requirements.

Course Descriptions

A listing of psychology graduate courses offered by the Department of Psychology and Anthropology can be found in the Course Descriptions section of this catalog on Pages 235.

Anthropology

Web Site: <http://www.utpa.edu/anthropology>

Graduate Faculty
 Glazer, Mark, *Professor*
 Graham, Margaret, *Assistant Professor*
 Hinojosa, Servando, *Assistant Professor*
 Pozorski, Shelia, *Professor*
 Pozorski, Thomas, *Professor*
 Vincentnathan, Lynn, *Assistant Professor*

Overview

UT Pan American offers interdisciplinary degree programs at the graduate level, including a Master of Arts in interdisciplinary studies.

Graduate courses available in anthropology enable graduate students to:

1. Complete a Master of Arts degree in interdisciplinary studies with a concentration in anthropology.
2. Take graduate anthropology courses as electives within other graduate programs.

Students pursuing either option are expected to meet with the anthropology coordinator or other anthropology faculty in order to develop a program of study.

This degree is structured as follows:

◆ **Thesis Option**

Eighteen hours in anthropology, including the thesis (concentration area).

Required Courses

- ANTH 6345 Anthropological Method and Theory
- ANTH 7300 Thesis
- ANTH 7301 Thesis

Nine Hours in Discipline Two.

Nine Hours in Discipline Three.

◆ **Non-Thesis Option**

Eighteen hours in anthropology (concentration area).

Required Course

- ANTH 6345 Anthropological Method and Theory

Nine Hours in Discipline Two.

Nine Hours in Discipline Three.

Graduate courses available in anthropology also enable graduate students to take anthropology courses as electives within other graduate programs, such as English or history.

Course Descriptions

A listing of anthropology graduate courses offered by the Department of Psychology and Anthropology can be found in the Course Descriptions section of this catalog on Page 171.

Public Administration

Dr. Frederick Ernst, *Interim Director*

Social and Behavioral Sciences Building, Room 229
 1201 West University Drive
 Edinburg, TX 78539-2999
 Telephone: 956/381-2545
 Fax: 956/381-2139

Graduate Faculty

- Borrego, Espiridian Al, *Associate Professor*
- Hinojosa, Jose R., *Professor Emeritus*
- Lynch, Cynthia, *Assistant Professor*
- Milford, John, *Lecturer*
- Montesdeoca, Richard, *Lecturer*
- Zemrani, Aziza, *Assistant Professor*

Graduate Program

The Department of Public Administration offers graduate study toward a Master of Public Administration (MPA) degree. The MPA is a professional preparation program for public service in governmental agencies at the federal, state, regional and local levels. The student must meet all requirements for graduate admission to UT Pan American (see Page 17). Application for admission must be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

Degree Requirements

The MPA degree requires successful completion of 39 total graduate hours.

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.

Prerequisite

The students must take PUBA 6301 The Public Administration Profession. Students whose academic preparation in public administration or political science is deficient may be required to do additional leveling coursework before gaining clear admission to the program.

Core

Students will be required to take 18 hours of core courses. These include three hours covered by PUBA 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
PUBA	6305	Problems in State and Local Government
NASPAA		Area B-Public Policy Analysis
PUBA	6312	Policy Implementation and Program Evaluation
NASPAA		Area C-Managerial Processes
PUBA	6321	Public Personnel Administration
NASPAA		Area D-Analytical Tools
PUBA	6330	Scope and Methods in Public Administration

NASPAA		Area E-Individual-Group Organizational Behavior
PUBA	6341	Political Leadership: Decision Making and Management in Public Organizations

Designated Electives (specialization)

Students will then take 12 hours of courses supportive of study within the discipline. Courses may be taken from the five NASPAA program areas; six hours may be taken outside the department in approved graduate-level courses.

PUBA	6303	Ethics for Public Service
PUBA	6304	Intergovernmental Relations
PUBA	6307	The Politics of Scarcity
PUBA	6309	Introduction to Planning
PUBA	6311	Formulation of Public Policy
PUBA	6320	Public Finance Administration
PUBA	6322	Intro to Community Development
PUBA	6323	Management of Governmental Information Systems
PUBA	6327	Management of Nonprofit Organizations

Other Courses

Students who do not have work experience in public administration will be required to complete a three-hour internship. This course is PUBA 6325. (Students employed full time in the public sector may use their present position as the basis for their internship experience if they successfully take PUBA 6325.)

Each candidate for the MPA must successfully complete either a Thesis, PUBA 7300-7301 (six hours), or an Applied Research Grant Project, PUBA 7302-7303 (six hours), or take additional hours and the comprehensive written examination. 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.

Final Requirements

After a student has successfully completed the 39 hours, he or she becomes a candidate for the Master of Public Administration degree and must successfully complete a written comprehensive examination. The final comprehensive examination will be administered by a supervisory instructor and two additional faculty members.

Directed Courses

Students who prefer to neither write a thesis nor conduct an applied research grant project may take six additional hours of graduate courses as approved and pass a written comprehensive examination.

Course Descriptions

A listing of graduate courses offered by the Master of Public Administration Program can be found in the Course Descriptions section of this catalog beginning on Page 238.

Sociology

Dr. Chad Richardson,
Department Chair

Social and Behavioral Sciences Building, Room 344
1201 University Drive
Edinburg, TX 78539-2999
Telephone: 956/381-3321
Fax: 956/381-2343
E-mail: cr33d5@utpa.edu

Dr. Dejun Su
Graduate Program Adviser

Social and Behavioral Sciences Building, Room 341
Telephone: 956/381-8798
E-mail: dsu@utpa.edu

Graduate Faculty

Guerra, Ramon S., *Associate Professor*
Himmel, Kelly F., *Associate Professor*
Liebowitz, Stephen W., *Associate Professor*
Raajpoot, Uzzer A., *Associate Professor*
Richardson, D. Chad, *Professor*
Ryabov, Igor, *Assistant Professor*
Su, Dejun, *Assistant Professor*
Wang, Guang-zhen, *Professor*

Mission Statement

The mission of the graduate program of the Department of Sociology at The University of Texas-Pan American is to prepare students who complete our program with the knowledge and the technical expertise to be effective specialists, analysts and administrators in a variety of social settings, such as federal, state and local government agencies, school districts, community health and aging organizations, marketing firms and evaluation programs. The department offers a curriculum with strong emphasis on methods, statistics and theory that prepare students seeking to continue their studies to succeed in doctoral programs in sociology.

In order to accomplish our mission, the department pursues excellence in teaching, research and professional service, and provides students with research and classroom teaching experience. Our mission is consistent with the mission of the University.

General Overview

Candidates for the master's degree may choose a general sociology focus, a concentration on inequality and poverty (including Mexican-American society and border and inter-American issues), a concentration on health and aging (including such topics as health care research and analysis, health care systems, research methods) or a concentration on technical research and program evaluation.

Admissions Requirements

1. Meet all requirements for graduate admission to UT Pan American (see Page 17), as well as the other requirements listed below. Application for admission must be submitted online; the application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.
2. Have had at least 15 undergraduate hours in sociology or demonstrated competence from equivalent coursework in similar liberal arts discipline.
3. Submit a letter of intent and a completed application.
4. Have submitted two letters of recommendation from individuals who are qualified to judge the students academic and professional development.

Note: Students not meeting these requirements may be admitted on a conditional basis and will need to meet any conditions indicated by the graduate adviser.

Degree Requirements

To receive the Master of Science degree in sociology, a candidate must complete a total of 36 hours of graduate study, including 15 hours of core requirements. The writing of a thesis is optional for receiving the degree. Students choosing the thesis option are required to complete 36 hours of graduate study, including 15 hours of core requirements and six hours of thesis.

Core Courses

SOCI 6300	Graduate Statistics
SOCI 6301	Graduate Social Theory
SOCI 6302	Graduate Quantitative Methods
SOCI 6303	Graduate Qualitative Methods
SOCI 6304	Graduate Research Analysis

Designated Electives

Select 21 hours of electives, six of which may be thesis hours.

Other Electives

Students may select three to six hours of approved graduate electives from other disciplines.

Sequencing of Core Courses

It is estimated that the master's program in sociology can be completed in four semesters for students who are enrolled full time in the program (nine semester credit hours per semester) and four semesters and two summer terms for part-time students. Based on the four semester model to complete the graduate degree, we suggest that students organize the coursework along the following time line: The first semester of graduate work is left open for students to make up deficiencies or take electives. During the second semester, students can take Sociology 6300 and 6301. During the third and fourth semesters, students can take Sociology 6302, 6303 and 6304. Part-time students are strongly encouraged to complete their degrees along this time line by enrolling in two summer school terms (first and second year of graduate work) for a total of six hours each term.

In addition to a general sociology program, the department offers three possible areas of concentration:

Social Inequality
Health and Aging
Applied Research and Program Evaluation

Course Descriptions

A listing of graduate courses offered by the Department of Sociology can be found in the Course Descriptions section of this catalog on Page 242.

Course Codes

Every course at The University of Texas-Pan American is identified by a subject code with a maximum of four letters and a four-digit number that specifies the level and the number of hours of credit of the course. Course numbers 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 departmental designations. For example, CRIJ 6305 is a Criminal Justice course offered at the master's level that carries three hours of credit per semester. For more information on course numbering, see page 40. The subject codes listed below correspond to the following subjects and departments:

Code Subject

ACC	Accounting
ACCT	Accounting
ANTH	Anthropology
ART	Art
BADM	Business Administration
BIOL	Biology
BLAW	Business Law
CHEM	Chemistry
COMD	Communication Disorders
COMM	Communication
CRIJ	Criminal Justice
CSCI	Computer Science
ECON	Economics
ED	Education
EDBE	Education
EDCI	Education: Curriculum and Instruction
EDEC	Education: Early Childhood
EDTC	Educational Technology
EDUL	Educational Leadership
ELEE	Electrical Engineering
EMAT	Mathematics
ENG	English
EPSY	Educational Psychology
FINA	Finance
FREN	French
GEOL	Geology
GSSL	Global Security Studies and Leadership
HIST	History
INTB	International Business
ISQM	Information Systems & Quantitative Methods
KIN	Kinesiology
MACC	Master of Accountancy
MANA	Management
MANE	Mfg. Engineering, Management
MARK	Marketing
MATH	Mathematics
MECE	Mechanical Engineering
MIS	Management Information Systems
MUS	Music
NURS	Nursing
OCCT	Occupational Therapy
PHIL	Philosophy
PHYS	Physics
POLS	Political Science
PSY	Psychology
PUBA	Public Administration
QUMT	Quantitative Methods
READ	Reading

REHS	Rehabilitation Counseling
SCIE	Interdisciplinary Science
SOCI	Sociology
SOCW	Social Work
SPAN	Spanish

COURSE DESCRIPTIONS

ACCOUNTING

ACCT 6301 Principles of Accounting [3-0]
as scheduled

The course is designed to provide students with thorough understanding of the basic financial accounting concepts underlying external reporting by corporations. It discusses the role of accounting in business and society, the effects of environmental factors on accounting, the preparation of financial statements, accounting for assets, liabilities and owners' equity. Prerequisite: Admission to the MBA Program.

ACCT 6320 Financial and Managerial Accounting [3-0]

fall, spring, summer

This course is analytical with detailed coverage of both financial and managerial accounting topics. This course is designed for MBA students, and it will not be accepted as a part of a MACC or MSA degree plan for graduation. Prerequisite(s): ACC 6301 or ACC 2301 and ACC 2302.

ACCT 6322 Special Topics in Accounting [3-0]
as scheduled

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 may be repeated for credit. Recommended Prerequisites: 15 hours of accounting, including ACC 3321, ACC 3323 and ACC 3324 or its equivalent.

ACCT 6323 Accounting Seminar [3-0]
as scheduled

Seminar on contemporary international and domestic accounting issues.

ACCT 8321 Seminar in Accounting Topics [3-0]
as scheduled

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.

ANTHROPOLOGY

ANTH 6333 U.S. and Other World Cultures [3-0]
fall, spring

This course is concerned with the many aspects of human culture ó including traditions, customs, folkways and religious beliefs ó on local, national and worldwide levels. It explores topics ranging from roles and responsibilities in the family unit to the interaction of different cultures with their social and physical environments. As the course assesses important contributions of various past and present cultures, considerable emphasis is placed on similarities and differences between the United States and other world cultures.

ANTH 6345 Anthropological Method and Theory [3-0]

fall, spring
Intensive instruction in the methodology (interviewing, participant observation, network analysis, etc.) and theoretical perspectives of anthropology.

ANTH 6348 Peoples and Cultures of Mexico [3-0]
spring, odd years

This course is an in-depth study of 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.

ANTH 6350 Mexican-American Folk Medicine
fall

A study of popular medical traditions found among Mexicans and Mexican Americans. Influences from European and Native American sources will be identified and ongoing changes in the folk medical landscape will be examined.

ANTH 6355 Psychology and Mythology [3-0]
fall, spring, and as scheduled

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. Previous Course Number: ANTH 5355; a student may receive credit in only one course. Equivalent Course: May be counted as PSY 6355; a student may receive credit in only one course.

ANTH 6363 Archaeological Method and Theory [3-0]

fall, spring
Reviews major theoretical orientations from an historical perspective with an emphasis on current approaches. Examines major aspects of archaeological methodology including excavations and laboratory procedures, sampling strategy, dating techniques and floral and faunal analysis.

ANTH 6365 Archaeology of South America [3-0]
fall, odd years

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.

ANTH 6369 Archaeology of Mexico and Central America [3-0]

fall, even years
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, including the Olmecs, Mayas and Aztecs, will be emphasized.

ANTH 6373 Archaeology of Ancient Egypt
spring

A study of the prehistory and history of ancient Egypt from the time of the first inhabitants in the area to the arrival of the Romans. Emphasis will be placed on the architectural and artistic achievements of Egypt during the time of the pharaohs. Aspects of ancient Egyptian social classes and religious beliefs and practices will also be explored.

ANTH 6374 Archaeology of North America [3-0]
spring, odd years

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 United States will be emphasized.

ANTH 6375 Mexican-American Folklore [3-0]
spring, even years

This course is an in-depth study of Mexican-American folklore. The course includes the study of Chicano legends, folk tales, riddles, folk music, ballads and festivals. Students have the opportunity to collect and archive folklore materials.

ANTH 6385 Topics in Anthropology [3-0]
as scheduled

Topics are varied according to availability of faculty and student interest. Course can be repeated for a total of six hours of credit as topics change.

ANTH 7300 Thesis
as scheduled

Research and writing of the thesis.

ANTH 7301 Thesis
as scheduled

Research and writing of the thesis.

ANTH 7600 Thesis
fall, spring, summer

Research and writing of the thesis.

ANTH 7601 Thesis
fall, spring, summer

Research and writing of the thesis.

ART

ART 6301 Studio Experience (2-D) [3-0]

as scheduled

Exploration of personal vision within a two-dimensional framework. Emphasis on group discussion and clarification of direction. Repeatable for a total of 12 hours. Prerequisite: Graduate standing.

ART 6302 Studio Experience (3-D) [3-0]

as scheduled

Exploration of personal vision within a three-dimensional framework. Emphasis on group discussion and clarification of direction. Repeatable for a total of 12 hours. Prerequisite: Graduate standing.

ART 6303 Graduate Studio Techniques (2-D) [3-0]

as scheduled

This course is intended for pursuing a minor area. Emphasis will be given to working in a technical direction outside the student's designated major area. Repeatable for a total of nine hours. Prerequisite: Graduate standing.

ART 6304 Graduate Studio Techniques (3-D) [3-0]

as scheduled

This course is intended for pursuing a minor area. Emphasis will be given to working in a technical direction outside the student's designated major area. Repeatable for a total of nine hours. Prerequisite: Graduate standing.

**ART 6350 Art History Seminar I:
Topics in European Art [3-0]**

as scheduled

Seminar/lecture on selected topics of European art history will be presented. Paper required. Prerequisite: Graduate standing.

**ART 6351 Art History Seminar II:
Topics in American Art [3-0]**

as scheduled

Seminar/lecture on selected topics in American art history will be presented. Paper required. Prerequisite: Graduate standing.

**ART 6352 Art History Seminar III:
Topics in Latin American Art
Prior to A.D. 1521 [3-0]**

as scheduled

Seminar/lecture on selected topics of Latin American art will be presented. Paper required. Prerequisite: Graduate standing.

**ART 6353 Art History Seminar IV:
Topics in Latin American Art
Since A.D. 1521 [3-0]**

as scheduled

Seminar/lecture on selected topics of Latin American art will be presented. Paper required. Prerequisite: Graduate standing.

ART 6354 Topics in Art History [3-0]

as scheduled

Seminar/lecture concerned with the philosophical overviews of selected art epochs will be presented. Paper required. Prerequisite: Graduate standing.

ART 6383 The Art Profession [3-0]

as scheduled

Strategies for professional representation, establishing an art business and considerations for teaching in higher education are discussed in a seminar format. A review of financial opportunities is also included. Paper required. Prerequisite: Graduate standing.

ART 6387 Special Topics Studio [3-0]

fall, spring, summer

Topics for graduate instruction. This course may be taken more than once if the topic changes. The class is designed to immerse students within an artistic discipline with the opportunity to study specialized studio art topics outside the established graduate curriculum.

ART 6605 Graduate Studio (2-D) [3-0]

as scheduled

Students are expected to develop professional competence in the area of their special studio direction. Research relating to the student's topic will be pursued. Repeatable for a total of 12 hours. Prerequisite: Acceptance to MFA candidacy.

ART 6606 Graduate Studio (3-D) [3-0]

as scheduled

Students are expected to develop professional personal competence in the area of their special studio direction. Research relating to the student's topic will be pursued. Repeatable for a total of 12 hours. Prerequisite: Acceptance to MFA candidacy.

ART 7300 Graduate Exhibition [3-0]

as scheduled

Planning and producing an exhibition for work previously prepared for this course. This course will be taken during the student's final semester of study.

ART 7301 Graduate Paper [3-0]

as scheduled

A description paper focused on the considerations that were made manifest through the works included in the Graduate Exhibition. This will be the final requirement for completion of the MFA degree and will be taken in conjunction with ART 7300. The paper will be presented to the student's graduate committee.

BUSINESS DOCTORAL DISSERTATION

BADM 9391 Dissertation (Extension)

Students register for this course in each long semester and during the summer following completion of BADM 9690 until the dissertation is defended. May be repeated.

BADM 9690 Dissertation

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, including one summer session, until successful defense of the dissertation. May be repeated.

BIOLOGY

Graduate standing is a prerequisite for all graduate Biology courses. Credit for a 5000-level course is not given to a student with previous undergraduate credit for a similar course.

BIOL 5304 Advanced Ichthyology [2-3] fall

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. Laboratory fee.

BIOL 5307 Host-Parasite Relationships [3-3] spring

A comprehensive analysis of the interrelationships between host and parasite. Modern laboratory techniques essential to understanding these interrelationships will be considered. Laboratory fee.

BIOL 5315 Advanced Entomology [3-3] spring

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. Prerequisite: BIOL 3414. Laboratory fee.

BIOL 5316 Advanced Environmental Toxicology [3-3] fall

An advanced treatment of physiological and systematic

interactions of environmental pollutants with biological systems. Laboratory consists of toxicological evaluations of selected chemicals. Prerequisites: BIOL 3412 and six hours of organic chemistry or biochemistry. Laboratory fee.

BIOL 5317 Advanced Bacterial Genetics [3-3] as scheduled

Bacterial genetics from both classical and molecular perspectives. Topics include transcription, translation, mutagenesis, transduction, transformation, conjugation and transposition. The lab is structured as a semester-long research project in which bacterial strains are randomly mutagenized, mutants are analyzed, and the mutated gene is identified. Laboratory fee.

BIOL 5318 Advanced Topics in Ethnobotany

Surveys on the historical uses of plants and their impacts on the evolution of human civilizations, natural sciences and natural environments. Emphasis is placed on the practice of artificial selection and the exploitation of plant-based foods, medicines, stimulants, psychoactive compounds, fibers, spices, aromatics, bio-fuels and construction materials. The promise of new and powerful biotechnological tools will be considered in light of economic and environmental concerns.

BIOL 5344 Advanced Mammalogy [2-3] spring

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. Laboratory fee.

BIOL 5403 Advanced Remote Sensing Technology [3-3] as scheduled

This course provides training in the use of electromagnetic radiation for monitoring environmental conditions and resources. Emphasis will be placed on the operation of various remote sensors, collection of analog and digital data, and use of computer software for image processing, interpretation and integration of imagery into geographic information systems.

Prerequisite: Consent of instructor.

BIOL 5404 Molecular Virology as scheduled

This course emphasizes current research on the genome organization and replication of viruses, functions and regulations of viral genes, molecular mechanisms of virus-host and virus-vector interactions, and novel molecular control strategies. Students will be introduced to the history of virology, taxonomy of viruses, symptomatology, epidemiology, diseases and management of viral diseases. Prerequisite: BIOL 3403. Laboratory fee.

BIOL 5406 Advanced Mycology [3-3] as scheduled

Subject areas shall include morphology and taxonomy, structure-function relationships, physiology and genetics,

molecular biology, parasitism of animals and plants, applied and environmental mycology.

Prerequisites: BIOL 3402, BIOL 3412 or BIOL 3413.

BIOL 5408 Advanced Plant Pathology [3-3]
as scheduled

The causes, nature and control of plant diseases. Principles of plant disease development. Laboratory fee.

BIOL 5409 Advanced Herpetology [3-3]
fall

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.

Prerequisites: Eight hours of introductory biology (1400 level), BIOL 2401 or BIOL 2402. Laboratory fee.

BIOL 5410 Marine Plant Science [3-3]
as scheduled

The common local marine flora including the microscopic and algal forms and aquatic angiosperms. Credit Restriction: Not open to students with previous credit for BIOL 4410. Laboratory fee.

BIOL 5411 Advanced Ecological Physiology of Animals [2-3]
as scheduled

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.

BIOL 5412 Advanced Ornithology [3-3]
as scheduled

Studies in avian biology with emphasis on taxonomy, behavior and ecology. Cannot take for credit if have had BIOL 4412 or equivalent. Laboratory fee.

BIOL 5414 Advanced Topics in Plant Systematics [2-3]
as scheduled

A study of literature and methods of experimental plant systematics, phylogenetic considerations, field and herbarium techniques and modern biosystematic approaches applied to selected taxa will be emphasized. Laboratory fee.

BIOL 5418 Advanced Electron Microscopy [3-3]
as scheduled

An introduction to electron microscopy including scanning and transmission electron microscopy. Topics include the principles of electron microscopes, cell ultrastructure, specimen preparation, microtomy, immunocytochemistry, operation of electron microscopes, darkroom techniques and graphic arts. Prerequisites: CHEM 1301 and 1101 or PHYS 1401. Laboratory fee.

BIOL 5420 Advanced Biotechnology [3-3]
as scheduled

This course will use computational methods, online databases and Internet resources to answer questions in biology ranging from organismal development to human disease.

The laboratory will be Internet-based and the students will explore online database resources to answer questions in a wide variety of areas relating to cellular and molecular biology.

Prerequisites: graduate standing

BIOL 5424 Advanced Microbial Ecology
as scheduled

An introduction to the diversity of microbes found in nature. Emphasis is placed on the ecological significance of bacterial communities found in terrestrial, aquatic and extreme environments, as well as their metabolic activities, interactions and survival strategies. Microbial bioremediation and biogeochemistry are also addressed.

BIOL 5426 Advanced Marine Ecology
as scheduled

This course will include discussion of marine ecosystems and processes with a focus on the marine environment of South Texas.

Prerequisite: BIOL 3409 Ecology.

BIOL 5452 Advanced Marine Zoology [3-3]
as scheduled

Structural, physiological and ecological relationships of common marine animals, stressing invertebrates of coastal waters. Prerequisite: BIOL 3414 recommended. Laboratory fee.

BIOL 6101 Biology Graduate Seminar [1-0]
fall, spring

All graduate students will be required to enroll for credit in Biology Graduate Seminar for 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 [2-3]
as scheduled

A study of current topics in biology; may be repeated for credit as topics change.

BIOL 6303 Advanced Ecology [3-3]
as scheduled

Utilization of modern techniques to analyze interrelationships between plants, animals and the environment. Terrestrial and freshwater environments will be considered. Laboratory fee.

BIOL 6304 Systematic Biology [3-0]
as scheduled

Theory and methods of taxonomy, classification, phylogeny and biogeography.

BIOL 6305 Biometry [3-3]

as scheduled

Statistical analysis and principles as applied to biological problems. Recommended Prerequisite: Undergraduate statistics course. Laboratory fee.

BIOL 6307 Animal Bioenergetics [3-0]

as scheduled

This course provides a detailed examination of the ecology and physiology of energy extraction and allocation in animals. The effects of temperature and the proximate and ultimate mechanisms that drive allocation strategies under varying environmental conditions will be emphasized. Students will gain experience in critical thinking about their own research and the research of others through weekly paper discussions.

Prerequisites: BIOL 4411/5411 (or equivalent).

BIOL 6308 Plant-Microbe Interactions [3-0]

as scheduled

The course will cover advanced plant pathology topics and several others not covered in BIOL 4408/5408. The graduate student will become familiar with the concepts underlying the interactions of microbes and plants across a continuum of symbioses. Modern ideas from very recent scientific literature concerning the molecular nature of plant pathogenicity and resistance will be emphasized.

Prerequisites: BIOL 4408 or BIOL 5408; BIOL 3401, BIOL 3412, BIOL 3413 or BIOL 3415; consent of instructor.

BIOL 6313 Advanced Cell Biology and Physiology [2-3]

spring

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. Prerequisite: BIOL 3412.

Laboratory fee.

BIOL 6316 Molecular Genetics [3-0]

fall, spring

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.

BIOL 6319 Scientism [3-0]

as scheduled

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.

BIOL 6322 History of Biology [3-0]

as scheduled

A survey of the events that have led to the development of biology as a science, with in-depth discussions of the order,

timing and chronology of discoveries in biology from antiquity to the present. Trends of thought in the biological sciences with emphasis on notable contributors will be highlighted.

BIOL 6324 Evolutionary Theory [3-0]

as scheduled

Examination of current and historical concepts in research on micro and macroevolution. Topics include natural and sexual selection, adaptation, homology, phylogenetic reconstruction, gene flow, molecular evolution, speciation, hybridization and extinction.

BIOL 6365 Graduate Biological Research Problems

as scheduled

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 three hours undertaken in graduate biological research problems will count toward a Master of Science degree in Biology. Laboratory fee.

BIOL 6412 Subtropical Ornithology [3-3]

as scheduled

Ecology, history, behavior and conservation of subtropical bird communities, focusing on breeding birds of the Lower Rio Grande Valley. Students will perform field studies of birds and several field trips will be held. Laboratory fee.

Prerequisites: graduate standing or permission of instructor.

BIOL 6420 Plants Biochemistry Molecular Biology [3-3]

as scheduled

The lecture portion of this course will present the unique biological aspect of plants in the context of their biochemistry, physiology and cellular and molecular biology. The laboratory portion of this course will teach students the unique lab techniques involved in the study of plant biochemistry and molecular biology.

BIOL 7300 Thesis

Laboratory fee.

BIOL 7301 Thesis

Laboratory fee.

BUSINESS LAW

BLAW 8381 Seminar in Law and Diplomacy [3-0]

as scheduled

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. Course may be repeated for credit with different topics.

CHEMISTRY

CHEM 6302 Teaching Environmental Sciences [3-0]

This graduate-level course is designed to provide hands-on experience and education on both local and global environmental issues including water quality, air pollution, landfills, recycling, habitat, restoration, oil spills, global warming, acid rains and ozone depletion.

Prerequisite: Acceptance into graduate programs and/or instructor's permission.

CHEM 6305 Biochemistry [3-0]

This course discusses the mechanisms of biosynthesis of macromolecules, particularly amino acids, proteins, fatty acids, lipids, polysaccharides, purines, pyrimidines and nucleic acids. Emphasis will be given to how these processes are controlled and integrated with the metabolism of the cell and the molecular basis of disorders related to the intermediary metabolism. The molecular mechanism of signal transduction and recombinant DNA technology is also emphasized. Prerequisite: CHEM 3303.

CHEM 6310 Organic Chemistry [3-0]

The course deals with cycloadditions, unimolecular rearrangements and thermal eliminations. It also deals with modern asymmetric syntheses and their applications to chiral medicinal drugs, stereochemistry of carbon compounds, their principles and applications, molecular symmetry and chirality, dynamic stereochemistry, stereoselective reactions and spectroscopic methods in organic chemistry. Prerequisite: CHEM 2303.

CHEM 6315 Advanced Inorganic Chemistry [3-0]

Coordination chemistry, ligand and crystal field theories and chemistry of transition elements.

Prerequisite: CHEM 3301.

CHEM 6320 Advanced Instrumental Analysis

Advanced study of instrumental analysis and instrumental design. The course covers ultraviolet-visible, infrared, Raman and nuclear magnetic resonance spectroscopy. Prerequisite: CHEM 2301.

CHEM 6325 Advanced Physical Chemistry [3-0]

Advanced study of various methods for studying molecular structure. Methods covered include quantum mechanics, statistical mechanics, molecular spectroscopy and nuclear chemistry.

Prerequisite: CHEM 3304.

CHEM 6330 Special Topics in Organic Chemistry [3-0]

May include advanced organic preparative laboratory, advanced organic synthesis, polymer synthesis, polymer physics and engineering and organic nanomaterials.

Prerequisite: CHEM 2303.

CHEM 6340 Special Topics in Inorganic Chemistry [3-0]

May include transition metals chemistry relevant to catalysis (such as isomerization, hydrogenation, polymerization and oxidation of olefins and dienes), stereochemistry and spectroscopy, general properties of organometallic complexes, carbonyls, phosphine complexes, ligand substitution reactions, insertion and elimination reactions, homogeneous catalysis, bio-organometallic chemistry and inorganic materials.

Prerequisite: CHEM 3301.

CHEM 6350 Special Topics in Analytical Chemistry [3-0]

May include clinical instrumentation, quality control/quality assurance, chemical separations, laser analytical chemistry, advance instrumental laboratory investigations, environmental chemistry, geochemistry, marine chemistry and forensic sciences.

Prerequisite: Undergraduate Analytical Chemistry, CHEM 2301.

CHEM 6360 Special Topics in Physical Chemistry [3-0]

May include quantum chemistry, thermodynamics, kinetics, statistical mechanics, group theory and nuclear chemistry.

Prerequisite: Undergraduate Physical Chemistry I & II, CHEM 3304 and CHEM 3305.

CHEM 6370 Special Topics in Chemical Education [3-0]

Special topics for the enhancement of chemical education including chemistry, technology, environmental science and other related topics. Prerequisite: Assigned teaching duties or graduate student status.

CHEM 6380 Special Topics in Biochemistry [3-0]

May include advance biochemical techniques, protein biochemistry, biotechnology, critical developments in biochemistry, advanced training and conduct in biochemistry, enzymes biochemistry and clinical biochemistry.

Prerequisite: Undergraduate Biochemistry, CHEM 3303.

CHEM 7101 Seminar I [1-0]

Presentation of the proposed thesis project.
Prerequisite: Instructor's permission.

CHEM 7102 Seminar II [1-0]

Presentation of techniques and research plans to be used to accomplish the proposed thesis project.
Prerequisite: Instructor's permission.

CHEM 7103 Seminar III [1-0]

Presentation of data and results gathered during the investigation of the proposed thesis project.
Prerequisite: Instructor's permission.

CHEM 7325 Master's Project I [3-0]

Project work culminating in a presentation of new teaching strategies, methods and techniques.
Prerequisite: Graduate advisor's permission.

CHEM 7326 Master's Project II [3-0]

Research work culminating in a presentation of novel concept and lesson plans applicable to teacher's school-level or college approved by the graduate advisor. Prerequisite: Graduate advisor's permission.

CHEM 7351 Thesis I [3-0]

Research work culminating in a presentation of thesis research data.
Prerequisites: CHEM 7101, CHEM 7102 and graduate advisor's permission.

CHEM 7351 Thesis II [3-0]

Research work culminating in a thesis defense.
Prerequisite: CHEM 7351 and graduate advisor's permission.

CLINICAL LAB SCIENCE

CLSC 5227 Clinical Laboratory Methods [1-3]

spring

Lecture and laboratory course that introduces the student to the medical laboratory. Emphasizes appropriate laboratory studies for specific disease, normal laboratory values and procedures for obtaining samples. Students are given the opportunity to perform routine lab studies.
Prerequisites: Admission into the Physician Assistant Studies Program

COMMUNICATION DISORDERS

NOTE: The American Speech-Language-Hearing Association (ASHA) defines areas within Communication Disorders for the purpose of describing programs and requirements. If applicable, the corresponding ASHA area is shown following each course.

COMD 5320 Advanced Sign Language I [3-0]

as scheduled

This elective, dual undergraduate and graduate-level course allows students to develop in-depth skills in American Sign Language and develop increased knowledge regarding the deaf community. Emphasis in the course is upon acquisition of comprehension and production skills.

Prerequisites: Beginning and/or Intermediate Sign Language at the undergraduate level or consent of the instructor.

COMD 5330 Advanced Sign Language II [3-0]

as scheduled

This elective, dual undergraduate and graduate-level course allows students to develop higher level American Sign Language skills for advanced communication with deaf and hard-of-hearing persons.

Prerequisites: Beginning and Intermediate Sign Language at the undergraduate level, or Advanced Sign Language I at the graduate level.

COMD 6180 Graduate Practicum: Audiology

fall, spring

Supervised clinical practice in audiology.

Prerequisites: COMD 6350, graduate standing, and admission to the COMD graduate program.

COMD 6301 Clinical Practicum I: Speech Pathology

fall

Supervised clinical practice in the UTPA Speech and Hearing Center. Treatment of Mild to Moderate articulation, phonological & language disorders. Students should be available for a minimum of 12 hours each week during operating hours of the Speech and Hearing Center so that they may accrue their required clinical practicum hours.

Prerequisites: Graduate standing and admission to the COMD graduate program.

COMD 6302 Clinical Practicum II: Speech Pathology

spring

Supervised clinical practice in the UTPA Speech and Hearing Center. Treatment of Moderate to Severe articulation, phonological & language disorders. Students should be available for a minimum of 12 hours each week during operating hours of the Speech and Hearing Center so that they may accrue their required clinical practicum hours.

Prerequisites: Graduate standing and admission to the COMD graduate program, and COMD 6301.

COMD 6303 Clinical Practicum III: Speech Pathology

summer I

Supervised clinical practice in the UTPA Speech and Hearing Center. Evaluation & Treatment of Mild to Moderate articulation, phonological, language, fluency & voice disorders. Students should be available for a minimum of 12 hours each week during operating hours of the Speech and Hearing Center so that they may accrue their required clinical practicum hours.

Prerequisites: Graduate standing and admission to the COMD graduate program, and COMD 6301, 6302.

COMD 6304 Clinical Practicum IV: Speech Pathology

summer II

Supervised clinical practice in the UTPA Speech and Hearing Center. Evaluation & Treatment of Moderate to severe articulation, phonological, language, fluency & voice disorders. Students should be available for a minimum of 12 hours each week during operating hours of the Speech and Hearing Center so that they may accrue their required clinical practicum hours.

Prerequisites: Graduate standing and admission to the COMD graduate program and COMD 6301, 6302, 6303.

COMD 6310 Research in Communication Disorders**[3-0]**

fall

A study of the major methods of research in communication disorders. Basic statistical concepts will be introduced. Students will critique research projects that have been completed and published. Students will select a topic for research; write a clear statement of the problem; write a comprehensive review of the literature and outline the method proposed for addressing the problem.

Prerequisites: Graduate standing and admission to the COMD graduate program.

COMD 6320 Speech-Language and Hearing Science**[3-0]**

summer

A study of embryology and neurology and their relation to the speech and language processes and the physics of sound. Modern studies and research in the sciences related to speech and language will be addressed.

Prerequisites: COMD 6310 and admission to the COMD graduate program. ASHA: Basic human communication processes.

COMD 6325 Childhood Language Disorders and Clinical Intervention**[3-0]**

fall

Following a brief review of characteristics of special populations that exhibit abnormal language development, an in-depth study of language development and methods language intervention will be presented. Family-based assessment and intervention will be addressed.

Prerequisites: Graduate standing and admission to the COMD graduate program.

COMD 6330 Fluency Disorders**[3-0]**

spring

A study of theories, research findings, rationales and techniques for clinical intervention of fluency disorders. Prerequisites: Graduate standing and admission to the COMD graduate program.

COMD 6335 Language Disorders in Adults**[3-0]**

spring

An in-depth study of adult language disorders, including aphasia, head injury and the degenerative diseases. Includes intervention strategies for these disorders.

Prerequisite: Graduate standing and admission to the COMD graduate program.

COMD 6340 Phonological Assessment and Intervention**[3-0]**

summer

Following a review of phonological theory, a variety of phonological assessment and intervention techniques will be presented. Apraxia of speech will be addressed.

Prerequisites: Graduate standing and admission to the COMD graduate program.

COMD 6345 Voice Disorders**[3-0]**

summer

Following a review of anatomical and physiological bases for voice production, causes of voice disorders, characteristics, and approaches to intervention for a wide variety of voice disorders will be addressed.

Prerequisites: COMD 6320, graduate standing and admission to the COMD graduate program.

COMD 6350 Audiology II**[3-0]**

spring

Theories and principles of advanced audiological diagnostic measurement. Participation in advanced clinical activities with application of theoretical concepts to various hearing impairments in children and adults.

Prerequisites: COMD 6320,, graduate standing and admission to the COMD graduate program.

COMD 6355 Normal and Abnormal Language Development of Culturally Diverse Populations**[3-0]**

fall

An in-depth analysis of normal and abnormal speech and language acquisition for bilingual and monolingual children. A review of cultural factors that affect the delivery of speech-language pathology services to culturally and linguistically diverse populations. Particular emphasis is placed on differentiating communication disorders vs. differences.

Prerequisite: Graduate standing and admission to the COMD graduate program.

COMD 6365 Language Assessment of Culturally and Linguistically Diverse Populations**[3-0]**

summer

The study and application of current identification and

assessment techniques for communication disorders in culturally and linguistically diverse populations. Special attention given to differential diagnosis of communication disorders vs. communication differences.

Prerequisites: COMD 6325, graduate standing and admission to the COMD graduate program.

COMD 6370 Seminar in Speech-Language Pathology [3-0]

spring fall

The study of principles, methods and procedures for speech-language theory, assessment and/or intervention. Subject matter varies from semester to semester, so that specific communication problems may be studied in depth. The course may be repeated for credit when subject matter changes. With approval, this elective may be substituted for a required course providing the requirement has a similar focus and providing that ASHA's minimum requirements are not compromised. Maximum credit: Six hours.

Prerequisites: Graduate standing and admission to the COMD graduate program.

COMD 6375 Seminar in Audiology [3-0]

spring

The study of principles, methods and procedures for audiological measurement and/or aural rehabilitation. Subject matter varies from semester to semester, so that specific communication problems may be studied in depth. The course may be repeated for credit when subject matter changes. With approval, this elective may be substituted for a required course providing the requirement has a similar focus and providing that ASHA's minimum requirements are not compromised. Maximum credit: Six hours.

Prerequisites: COMD 6310, graduate standing and admission to the COMD graduate program.

COMD 6385 Dysphagia [3-0]

spring

Seminar includes contemporary research in normal and disordered processes of eating and swallowing, anatomy and physiology of the mechanisms, and evaluation and treatment procedures from infancy to geriatric.

Prerequisites: Graduate standing and admission to the COMD graduate program.

COMD 6395 Advanced Clinical Practicum

fall, spring

Students are required to successfully complete at least two semesters of advanced practicum at a minimum two distinctly different off-campus sites. Practicum applications must be submitted before the published deadline. Advanced Practicum involves providing supervised clinical services to individuals at a site other than the Speech and Hearing Center. An off-campus supervisor will direct and evaluate the experience, with the assistance of a clinical director and/or communication sciences disorders faculty as assigned.

Prerequisites: Successful completion of four registrations of COMD 6105 and all COMD courses.

COMD 6397 Augmentative Alternative Communication [3-0]

fall

This graduate-level course addresses new AAC technology and its communicative application to those handicapped individuals in need of augmentative and alternative systems and devices. Students will acquire practical skills in applying this technology.

Prerequisite: Graduate standing and admission to the COMD graduate program.

COMD 7300 Thesis: Communication Disorders

A guided research project on topic of the student's area of interest. Exact guidelines are detailed in the Communication Disorders' Academic and Clinical Procedures Manual. Course may not be repeated for credit. Up to three hours may substitute for a related required course. Thesis credit may not count toward ASHA's minimum requirements. May be repeated for credit.

Prerequisites: COMD 6310 and admission to the COMD graduate program.

COMMUNICATION

Explanation of Symbols:

COMM - Communication Course

TH - Theatre Course

COMM 5304 Scriptwriting (TH) [3-0]

as scheduled

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 5615 Summer Theatre Workshop (TH) [6-0]

as scheduled

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 5616 Summer Film & Television Workshop (TH) [6-0]

fall, spring, summer

An Intensive workshop in which students participate in the production of a major narrative or documentary work that will embody the principles of television and film. Because of the intensive nature of this course, students must have the instructor's prior permission before pursuing other studies or outside employment during the workshop period.

COMM 6300 Communication Research (COMM) [3-0]
as scheduled
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 Communication Theory (COMM) [3-0]
as scheduled
Study of the major developments in communication theory. Emphasis is on the effects of human interaction and of the media on individuals and society.

COMM 6321 Seminar in Instructional Communication (COMM) [3-0]
as scheduled
This course will examine interactions in educational contexts such as student/teacher interactions, student/student interactions and teacher/teacher interactions using instructional communication models and communication theories.

COMM 6322 Culture and Communication (COMM) [3-0]
as scheduled
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 (COMM) [3-0]
as scheduled
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 (COMM) [3-0]
as scheduled
Theories and models of communication in organizations, design and management of organizational communication systems.
Prerequisite: Graduate standing.

COMM 6326 Seminar in Nonverbal Communication (COMM) [3-0]
as scheduled
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 6328 Applied Research in Communication (COMM)
as scheduled
This course provides students with an understanding of the logic underlying empirical inquiry. Specifically, this course

prepares students to effectively consume published research reports, competently design and justify a personal research project, and encourages students to develop and demonstrate an understanding of the specific requirements associated with quantitative or qualitative analysis.
Prerequisite: COMM 6300 or permission of instructor.

COMM 6329 Special Topics in Communication (COMM) [3-0]
as scheduled
Course will focus on current communication theory and research in specialized areas of the discipline. May be repeated for credit when the topic varies.

COMM 6330 Seminar in Training and Consulting (COMM) [3-0]
as scheduled
This course explores communication training and development as a research and teaching focus for students interested in applied communication. Specifically, the course provides students with opportunities to identify and assess communication competence, to acquire the skills needed for developing training programs and to gain an understanding of the theoretical and applied elements of adult education.

COMM 6332 Mass Media Campaigns (COMM) [3-0]
as scheduled
This course will examine the elements of effective campaigns and will analyze the role of the mass media in a variety of social, health and political settings.

COMM 6340 Special Topics in Dramatic Literature (TH) [3-0]
as scheduled
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) [3-0]
as scheduled
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) [3-0]
as scheduled
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) [3-0]
as scheduled
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 6345 Theatre Research (TH) [3-0]
as scheduled
This course covers the major methods of research used in the various fields of theatre. Each student is responsible for the successful completion of a research project.

COMM 6351 Communication Technology (COMM) [3-0]
as scheduled
This course surveys emerging communication technologies and examines their social and behavioral impact on human interaction.

COMM 6352 Mass Communication and Hispanics (COMM) [3-0]
as scheduled
This class will survey research conducted on Hispanics and the mass media. Students will prepare a research proposal that could lead to a thesis topic. Topics to be covered include media effects, media use, Spanish language media and demographic targeting.

COMM 6356 Seminar in Persuasion (COMM) [3-0]
as scheduled
This course examines the theories, principles, models and research related to attitude change and social influence. The course takes a contemporary, interdisciplinary approach to persuasion.

COMM 6357 Screenwriting Workshop (TH) [3-0]
as scheduled
A workshop course devoted to the craft of screenwriting. Students will read, write and critique screenplays. The first time they take the course they will write (and rewrite) a 60 page screenplay. The second and third times they take the course they will write (and rewrite) a full length screenplay (120 pages).

COMM 6358 Playwriting Workshop (TH) [3-0]
as scheduled
A workshop course devoted to the craft of playwriting. Students will read, write and critique dramatic fiction. The first time they take the course they will write (and rewrite) a one act play. The second time they will write (and rewrite) a full length play.

COMM 6360 Historical Studies in Mass Media (COMM) [3-0]
as scheduled
Historical study of cultural, legal and technical movements in print, broadcasting and recorded mass media. May be repeated for credit when topics vary.

COMM 6368 Form and Theory of Playwriting [3-0]
fall, spring, summer
A graduate level form and theory course designed to strengthen and enhance the student's writing while reading widely in the many forms of dramatic literature.

COMM 7101 Thesis Research [1-0]
fall, spring, summer
Continuing preparation of thesis in partial fulfillment of the requirements for the master's degree.

COMM 7300 Thesis: Theatre
Preparation, completion and submission of an acceptable thesis in partial fulfillment of the requirements of the master's degree.

COMM 7301 Thesis: Theatre
Preparation, completion and submission of an acceptable thesis in partial fulfillment of the requirements of the master's degree.

COMM 7302 Thesis: Communication
Preparation, completion and submission of an acceptable thesis in partial fulfillment of the requirements of the master's degree.

COMM 7303 Thesis: Communication
Preparation, completion and submission of an acceptable thesis in partial fulfillment of the requirements of the master's degree.

CRIMINAL JUSTICE

CRIJ 6301 Criminal Justice System [3-0]
as scheduled
This course is designed to give students a current, thorough and comprehensive overview of all facets of the criminal justice system in the United States, its functions, current controversial issues and future trends. The philosophy, history and development of criminal justice institutions will be examined.

CRIJ 6302 Crime, Criminal Behavior and Criminology [3-0]
as scheduled
Major theoretical approaches to the study of crime and criminology, including the biological, economic, political, psychological and sociological views on crime and criminal behavior.

CRIJ 6303 Criminal Justice Policy Analysis [3-0]
as scheduled
An analysis of the development, implementation and evaluation of criminal justice policy.

CRIJ 6304 Law, Courts and Criminal Procedure [3-0]
as scheduled
Advanced study of the legal system of the United States. Discussion of the sociology of law as related to the application and operation of the judicial system and police procedure. Analysis of current research and literature related to the United States legal system.

- CRIJ 6305 Criminal Justice Organizational Theory and Behavior [3-0]**
as scheduled
Advanced examination and evaluation of management, organization and administration of criminal justice agencies.
- CRIJ 6306 Criminal Justice Research Methods I [3-0]**
as scheduled
Advanced statistical methods used in criminal justice research, including multivariate analysis and application of computerized statistical programs in analyzing criminal justice data.
Prerequisite: An undergraduate statistics course or consent of instructor.
- CRIJ 6307 Criminal Justice Research Methods II [3-0]**
as scheduled
Theory, techniques, methods and applications of quantitative analysis in criminal justice, with emphasis upon experimental design and collection, tabulation and analysis of in-field data.
Prerequisite: CRIJ 6306 or consent of instructor.
- CRIJ 6308 Seminar on Juvenile Issues [3-0]**
as scheduled
An overview of the juvenile justice system in the United States. The administration of juvenile institutions and agencies, the juvenile court system, theories of juvenile delinquency and innovative methods of treatment strategies. Current research and trends in juvenile justice.
- CRIJ 6309 Seminar on Courts and Correctional Issues [3-0]**
as scheduled
Examination of correctional philosophy, contemporary correctional issues, administration and management of correctional institutions. The role of probation and parole, an analysis of community-based corrections and related topics in corrections.
- CRIJ 6310 Seminar in Law Enforcement Issues [3-0]**
as scheduled
Examination and discussion of current trends and issues related to policing in the United States. Evaluation of current strategies of policing and their application in police agencies.
- CRIJ 6311 Seminar on Comparative Criminal Justice Issues [3-0]**
as scheduled
This course gives graduate students an opportunity to study contemporary issues in crime and criminal justice. The course will focus attention on international criminal justice issues and topics. May be repeated once if a new topic.

- CRIJ 6312 Independent Research and Study [3-0]**
as scheduled
Independent study designed to provide an opportunity for students to pursue research and/or participate with graduate faculty in research for publication or professional presentation. Students may also opt under this course to study in-depth theoretical/empirical readings in a substantive area not normally covered in standard courses.
- CRIJ 6313 Special Topics (May be repeated once if a new topic.)**
- CRIJ 7101 7102 One-Hour Thesis Course**
- CRIJ 7301 7302 Thesis**
as scheduled
The student is required to complete an individual research project under the direction and supervision of a graduate thesis committee. The thesis will be defended publicly and approved by a majority of the thesis committee. Prerequisite: Approval of Graduate Program Director.
- CRIJ 7303 7304 Applied Research Project**
as scheduled
The student is required to complete a problem-oriented applied research project under the supervision of a graduate project committee. The project must be approved by a majority of the project committee.
Prerequisite: Approval of Graduate Program Director.

COMPUTER SCIENCE

- CSCI 6174 Open Problems in Computer Science [1-0]**
A survey of current research areas in computer science. Topics are discussed in an informal seminar setting.
Prerequisite: Consent of instructor.
- CSCI 6175 Seminar in Computer Science [1-0]**
as scheduled
Presentation and analysis of literature in a selected area. May be repeated as topics vary. A total of six hours may be counted toward fulfillment of degree requirements.
Prerequisite: Consent of instructor.
- CSCI 6300 Foundation of Systems [3-0]**
as scheduled
In-depth analysis of operating systems, computer architecture, and distributed processing, focusing on principles of organization and applications across systems.
Prerequisite: Consent of instructor.

- CSCI 6301 Foundation of Algorithms, Data and Programming Languages in Computer Science [3-0]**
as scheduled
In-depth analysis of computing algorithms and data structures for implementation in the context of software engineering design using structured programming languages. Prerequisite: Consent of instructor.
- CSCI 6302 Foundations of Software and Programming Systems for Information Technology [3-0]**
as scheduled
Focusing on a high level object oriented language (e.g., Java, C++), provides foundational study of algorithms, data structures, and programming systems in the context of information technology systems. Prerequisite: Knowledge of a high level programming language and consent of instructor.
- CSCI 6303 Principles of Information Technology Systems [3-0]**
as scheduled
An introduction to information technology and computer systems. Specific topics provide an overview of databases, knowledge-based systems, e-commerce, software engineering, software tools, programming, and Internet. Prerequisites: Knowledge of a high level programming language and consent of instructor.
- CSCI 6312 Advanced Internet Programming [3-0]**
as scheduled
Course covers theoretical and practical methods and techniques for programming on the Internet with a focus on the Web server side. Students will be able to develop highly interactive Web-based applications. Prerequisite: Consent of instructor.
- CSCI 6314 E-Commerce Systems and Implementation [3-0]**
as scheduled
Presents the principles E-commerce implementation, examining specific examples in depth. Students implement a working prototype site as class projects. Prerequisites: CSCI 6302 and consent of instructor.
- CSCI 6315 Applied Database Systems [3-0]**
as scheduled
Course covers the application of a modern database system. Concepts covered include relational model, normalization, structured query language, Internet data formats, and server and client side technologies. The course is targeted at students who are interested in the development of application programs using a database system such as Oracle, Teradata, or Microsoft SQL. Prerequisite: CSCI 6302 or equivalent.
- CSCI 6318 Cyber Security and Forensics [3-0]**
as scheduled

Computer security fundamentals and standard of good practice, and Incident response strategies will be presented. Topics will include analyzing volatile and nonvolatile data, collecting network based evidence, forensic analysis techniques, web, email and registry activity reconstruction, and study of available tools. Prerequisite: CSCI 6303

- CSCI 6323 Design and Analysis of Algorithms [3-0]**
as scheduled
Advanced topics in data structures and algorithms, including dynamic programming and classification of algorithms. Applications of various algorithms and data structures will be discussed and implemented. Prerequisite: CSCI 6301, CSCI 3333 or equivalent, or consent of instructor.

- CSCI 6333 Advanced Database Design and Implementation [3-0]**
as scheduled
Focuses on distributed database systems. Includes file allocation, directory systems, deadlock detection and prevention, synchronization, query optimization, and fault tolerance. The course will include one or more programming projects demonstrating implementation of concepts introduced. Prerequisite: CSCI 6301, CSCI 4333 or equivalent, or consent of instructor.

- CSCI 6334 Advanced Operating Systems [3-0]**
as scheduled
An in-depth treatment of operating systems concepts. Major course topics include process and processor management, primary and secondary storage management, system performance, network considerations (both local area and wide area) and system security. A significant programming project involving concurrent resource management is required. Prerequisite: CSCI 6300, CSCI 4334 or equivalent, or consent of instructor.

- CSCI 6335 Advanced Computer Architecture [3-0]**
as scheduled
Covers trends and measuring and reporting of improvements in computer technology; instruction set principles, hardware techniques for instruction level parallelism (ILP) as applied to reduced instruction set architecture (RISC) such as dynamic scheduling and thread-level parallelism; loop unrolling and enhancing loop level parallelism; memory hierarchy mapping and miss rate reduction techniques and performance calculations; and interconnection network and clusters related issues. This course is equivalent to ELEE 6335. Prerequisite: CSCI 6300, CSCI 4335 or ELEE 3435.

- CSCI 6336 Programming Languages and Compilers [3-0]**
As scheduled
Formal and applied methods of program and language

description, including denotational, operational and axiomatic semantics.

Prerequisite: CSCI 6301, CSCI 3336 or equivalent, or consent of instructor.

CSCI 6337 Simulation [3-0]
as scheduled

The theory and design of discrete simulations are discussed. Topics include modeling techniques, data collection and analysis, random number generators, analysis of output, and optimization.

Prerequisites: CSCI 3333 and MATH 4339 or equivalent background in probability, or consent of instructor.

CSCI 6339 Theoretical Foundations of Computation [3-0]
as scheduled

Examines classes of languages and abstract machines including finite state automata, pushdown automata, Turing machines and the Chomsky hierarchy of formal languages, including regular sets, context-free languages, context-sensitive languages and recursively enumerable languages.

Prerequisite: CSCI 6301, MATH 3373 or equivalent, or consent of instructor.

CSCI 6340 Advanced Software Engineering [3-0]
as scheduled

An overview of the software engineering process, including software project management, system and software requirements analysis, structured analysis, object-oriented analysis, design and implementation of software. Data-flow, object-oriented, user interface and real-time design methods. Software quality assurance and testing methods. Use of CASE tools. Will include a major design project. Prerequisite: CSCI 6301, CSCI 3340 or equivalent, or consent of instructor.

CSCI 6343 Process Design and Development Methodology [3-0]
as scheduled

This course covers formal methods, techniques and tools for designing and developing processes; process integration; process evaluation and validation; simulation and modeling; information-based for processes; process management; and professional ethical and legal issues.

Prerequisite: Consent of instructor.

CSCI 6345 Advanced Computer Networks [3-0]
as scheduled

In-depth study of theory, design, implementation and performance of computer and communications networks. Current network types, including point-to-point, satellite, packet switch, local area and wide area networks, are studied, as well as evolving technologies such as ATM. Provides an introduction to queuing analysis and includes network programming projects.

Prerequisite: CSCI 6300, CSCI 4345 or equivalent, or consent of instructor.

CSCI 6350 Advanced Artificial Intelligence [3-0]
as scheduled

Issues of knowledge representation, including a survey of important knowledge-based systems. Current research issues, including neural networks, object-oriented programming in AI, natural language understanding, device understanding, and perception.

Prerequisite: CSCI 6301, CSCI 4350 or equivalent, or consent of instructor.

CSCI 6351 Knowledge-Based Systems [3-0]
as scheduled

This course will investigate previous implementation methods in artificial intelligence knowledge-based engineering. Theoretical aspects will cover concepts in search, knowledge representations and learning. Practical aspects will include an examination of methods such as rules, logic generic tasks, neural networks, fuzzy logic, and probabilities. The course will investigate previous systems such as Mycin, Dendral, Internist, Chef and Red.

Prerequisite: CSCI 6350 or consent of instructor.

CSCI 6352 Object-Oriented System Development [3-0]
as scheduled

Introduction to the object-oriented paradigm and its application throughout the software and systems life cycles.

Prerequisite: CSCI 3340 or equivalent, or consent of instructor.

CSCI 6354 Performance Evaluation [3-0]
as scheduled

Methods and concepts of system performance evaluation are introduced and discussed. Topics include stochastic processes, measurement techniques, monitor tools, statistical analysis of performance experiments, simulation models, analytic modeling and queuing theory, and workload characterization.

Prerequisites: CSCI 4334 and MATH 4339 or equivalent background in probability, or consent of instructor.

CSCI 6355 Bioinformatics [3-0]
fall, spring

Examines the creation and development of advanced information and computational techniques for problems in the biosciences, including biology, biochemistry, biotechnology, and medicine. Presents advanced concepts and techniques of bioinformatics and computational biology tools to solve problems in topics such as sequence alignment, gene and motif finding, restriction mapping, microarray data analysis and gene expressions. Prerequisites: CSCI 6301, CSCI 3333 or equivalent, or consent of instructor

CSCI 6356 Parallel Computing [3-0]
as scheduled

Studies models, architectures, languages, and algorithms of parallel computing. Topics include parallel computing models, algorithm designs, software tools, parallel architectures, and performance evaluation.

Prerequisite: CSCI 6323 or consent of instructor.

CSCI 6360 Advanced Computer Graphics [3-0]
as scheduled

Advanced topics, including illumination models, three dimensional graphics and efficient algorithms, as well as graphics hardware. The role of user interfaces in software systems. Programming project required using windowing system and graphics standard such as Open GL.
Prerequisite: CSCI 6301, CSCI 4360 or equivalent, or consent of instructor.

CSCI 6361 Computer Visualization [3-0]
as scheduled

Visualization systems augment quantitatively based systems for presentation of data in a manner facilitating understanding and insight. This course provides an in-depth study of the theory, design, and implementation of computer-based visualization systems. In addition to scientific visualization, visualization of semantic information is also examined.
Prerequisite: CSCI 6300 or equivalent.

CSCI 6362 Interactive Systems [3-0]
as scheduled

Focuses on the communication of information between user and system, emphasizing both results of past research and evolving trends such as information visualization. Students will complete a project entailing the construction and analysis of an interactive system.
Prerequisite: CSCI 6301, CSCI 4360 or equivalent, or consent of instructor.

CSCI 6363 Human Computer Interaction [3-0]
as scheduled

Presents theory of human-computer interaction, as well as development methods for interfaces, such as user-centered design, prototyping, and participatory design. Course presents evaluation and testing techniques, such as heuristic evaluation, the cognitive walkthrough, and usability testing, as well as user-interface programming and ethical and societal issues.
Prerequisite: CSCI 6302 or equivalent.

CSCI 6364 Network Information Systems [3-0]
as scheduled

Focuses on the use of current and future network systems as means to supply information, such as intranets. Will explore high-level network programming using object-oriented tools such as Java. Each student will complete the design and implementation of an information system for network use using current tools. Prerequisite: CSCI 6301 or consent of instructor.

CSCI 6365 Network Management and Security [3-0]
as scheduled

This course covers topics in the administration of a secure network. Topics covered include: proper planning and installation of a network operating system, administrations of groups, users and resources, challenges and vulnerabilities, authentication and authorization, public key encryption, key management, and Internet protocol security architecture.
Prerequisite: CSCI 4345 or equivalent.

CSCI 6366 Data Mining and Warehousing

as scheduled

As a multidisciplinary field, draws on work from areas including database technology, artificial intelligence, machine learning, neural network, statistics, information retrieval, and data visualization. Theoretical and practical methods will be presented on knowledge discovery and systems design and implementation. Prerequisite: CSCI 6300 or equivalent.

CSCI 6368 Advanced Multimedia Computing [3-0]
as scheduled

In-depth study of multimedia coding/compression techniques and standards. This course will cover various multimedia computing subjects and standards such as text compression, still image coding, video computing, multimedia content description interface, and multimedia framework.
Prerequisite: CSCI 3333 or CSCI 6301 or equivalent.

CSCI 6370 Topics in Computer Science [3-0]
as scheduled

In-depth study of specific issues in computer science. Subject matter varies from semester to semester. May be repeated when subject matter changes. A total of six hours may be counted toward fulfillment of degree requirements.
Prerequisite: Consent of instructor.

CSCI 6380 Problems in Computer Science [3-0]
as scheduled

An area of computer science is examined under the direction of a faculty member prior to enrollment in master's thesis or project courses.
Prerequisite: Consent of instructor.

CSCI 6381 Independent Research and Study [3-0]

Independent study of an area of current research allowing students to work with faculty in performing research, participating in ongoing faculty research, or reading in depth on a topic not covered in existing courses.
Prerequisite: Consent of instructor.

CSCI 6389 Internship [3-0]
as scheduled

Develops practical expertise in a specialization of computer science or computer information technology. The specialization may include software design, hardware performance enhancement, web-related technologies, e-commerce designs, database designs, expert systems, network administration and protocol development, or other approved specialization. The student will work with a participating employer under the supervision of a graduate faculty member. The employment can be either paid or unpaid for the duration of a regular semester or a full summer.

CSCI 6390 Master's Project

as scheduled

Specification, design, completion and documentation of

a programming project employing current practice in computer science.

Prerequisite: CSCI 6380 and consent of instructor.

CSCI 7300 Thesis

Thesis research and preparation. May be repeated. A total of six hours may be counted toward fulfillment of degree requirements. Enrollment in this course is required each term in which the thesis is in progress.

Prerequisite: CSCI 6380 and consent of instructor.

ECONOMICS

ECON 6301 Principles of Economics [3-0]

fall, spring, summer

This course is an introduction to basic economic concepts. Macroeconomic topics will include national income and output, unemployment, inflation and economic, social and political structures and institutions. Microeconomic topics will include consumer choice, the firm's supply decision, product and resource markets, resource allocation and efficiency, and market structures. International/global comparisons will also be discussed when appropriate.

Prerequisite: Admission to the MBA Program.

ECON 6350 Managerial Economics [3-0]

Fall, spring, summer

This course applies economic analysis to managerial issues in the business firm world. Specific topics considered include demand analysis, production and costs, pricing policies and market structures. Extensive use is made of case.

Prerequisites: ECON 6301 or ECON 2301 and ECON 2302.

ECON 6351 Topics in Economics [3-0]

fall, spring, summer

This course is an in-depth study of specific topics in economics; subject matter varies from semester to semester.

This course may be repeated for credit when the topic changes.

ECON 6354 Health Economics [3-0]

fall, spring

This course presents an overview of health and medical care economics. Topics covered include the production of health, cost and benefit analysis, health care systems and institutions, the demand for health insurance and medical care, medical care production and costs, the physician and hospital services industry, and health care reform.

ECON 8350 Math for Economics [3-0]

This course introduces the mathematical concepts necessary for pursuing microeconomic theory at the Ph.D. level: Theory and application of linear algebra and constrained optimization.

ECON 8351 Seminar in Economic Topics [3-0]

as scheduled

Selected topics in economics 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.

ECON 8355 Microeconomic Theory [3-0]

This course will expose students to a rigorous development of the theory of production, consumption and markets.

ECON 8360 Macroeconomic Theory [3-0]

This course will review theories of productivity, output and employment, as well as consumption saving and investment decisions. An introduction to long-run economic growth, an extension of savings and investment to the open economy and the functioning of the money market will be provided next. Business cycles and the IS-LM/AD-AS models as general frameworks will be discussed, along with exchange rates and macroeconomic policies in the open economy. Monetary policy and the operating procedures of the Federal Reserve System will pave the way for the literature on rules versus discretion. Recent representative articles from professional journals will complement the basic material.

ECON 8365 International Trade [3-0]

This course covers theories on international trade including: comparative advantage, resource allocation, income distribution and foreign trade.

ECON 8370 Econometrics I [3-0]

This course covers cross-sectional data analysis.

Prerequisite: ISQM 8311.

ECON 8375 Econometrics II [3-0]

This course covers time-series data analysis.

Prerequisite: ISQM 8311.

EDUCATION

ED 6300 Introduction to Research

A study of research methods in education including settings that 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. Cross-listed with EDCI 6310 and EDUL 6300.

ED 6302 Advanced Educational Psychology [3-0]

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: EDCI 4302 or equivalent.

ED 6311 Advanced Child Psychology [3-0]
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.

ED 6320 Microcomputers in Student Services [3-0]

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 that are relevant to student services personnel.

ED 6360 Introduction to Counseling [3-0]

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 6390 The Education of Young Children [3-0]

as scheduled

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 that 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.

ED 7300 Thesis

as scheduled

ED 7301 Thesis

as scheduled

BILINGUAL EDUCATION

EDBE 6319 Bilingual Education

as scheduled

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 hours in bilingual graduate program.

EDBE 6322 Bilingualism/Multiculturalism: Critical Issues and Practices [3-0]

as scheduled

A course designed to provide understanding of the historical, theoretical and socio-political factors that impact bilingualism/multiculturalism in the public school system. The course will emphasize contemporary research findings that affect bilingual educational issues and practices.

EDBE 6324 Dual Language Enrichment Education [3-0]

as scheduled

This course provides a thorough understanding of research, programs and pedagogical issues in dual language enrichment models of education. It will emphasize the research-based trend regarding the movement of bilingual education instructional models from remedial paradigms of learning to an enrichment paradigm. It will also examine equity and policy issues regarding academic achievement of students from varied backgrounds participating in remedial ESL/bilingual programs versus dual language enrichment programs.

EDBE 6335 Bilingual Content Areas Across the Curriculum [3-0]

as scheduled

This course emphasizes a variety of advanced instructional strategies appropriate for teaching elementary mathematics, science and social studies through the Spanish and English language to the bilingual child. Specifically, competency will be assessed in the areas of planning, teaching/learning, communication, management, concept development and assessment. Appropriate classroom application of content-area terminology in Spanish/English will be emphasized.

EDBE 6350 The Bilingual Reading Process [3-0]

as scheduled

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.

EDBE 6351 Research on Language Development in Bilingual Environments [3-0]

as scheduled

This course will focus on the development of the first and second language as it relates to the dual language enrichment education and other bilingual instructional environments. Research on the similarities and differences between the first and second language acquisition process, including English as a Second Language (ESL) methodology theory and practice, will be analyzed and applied to the bilingual/ESL instructional settings. Analyses will focus on effective development of social and academic linguistic proficiency of learners in the Spanish and English language.

CURRICULUM AND INSTRUCTION

EDCI 6301 Instructional Technology [3-0]

as scheduled

Practical applications of acquiring, organizing and presenting information and ideas using the broad spectrum of media and technology systems including audio, visual, video, computer, telecommunication and satellite. Evaluation and modification of instructional situations using innovative methods based on media and technology systems will be explored. May be taken more than once for course credit if topics vary.

EDCI 6302 Multicultural Education [3-0]

as scheduled

A course designed to acquaint the student with an increasingly multicultural population in schools. The multicultural character of American society will be addressed with emphasis on working with various types of students in the Texas school population. Current issues and trends will be reviewed within the context of their historical background.

EDCI 6303 Philosophy of Education [3-0]

as scheduled

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. The professional will be introduced to the research and current issues regarding professional ethics. Ethical conduct within the society and its influence on professional conduct as well as the influence of the practice of professional ethics on society will be considered through the use of research, seminars and case studies. Field visits and interviews will be required where appropriate.

EDCI 6304 Measurement and Evaluation [3-0]

as scheduled

Students will explore the design, construction and administration of tests with an emphasis on achieving test validity. Student performance on teacher-made, textbook-supplied or standardized tests will be analyzed to determine relevance and appropriateness for informed curricular and instructional decisions. Mandated measures of pupil performance will be investigated with particular regard to their impact on educational practice in schools.

EDCI 6305 Educational Curriculum [3-0]

as scheduled

An overview of theories, principles, practices and issues in curricular planning for modern educational experiences in schools. Emphasis will be placed upon the application of educational psychology in the selection and teaching of curriculum and the achievement of successful classroom management to improve educational practice in schools..

EDCI 6306 Special Projects

as scheduled

Students will engage in projects focused on causing change to occur in public schools. Topics must be approved by the instructor. The primary student work product from the course will be either a project proposal or a final project report. Course may be repeated for credit when topic changes.

EDCI 6307 Research, Issues and Trends in Education [3-0]

as scheduled

Research as well as current issues and trends within the field of education. A course designed to broaden the professional's understanding of the impact and implications of research, controversial issues and trends both within the society and within the field of education. When appropriate, field visits and research may be required.

Prerequisite: EDCI 6310 or consent of instructor.

EDCI 6308 Practicum for Teachers

as scheduled

An examination of the role in education of the discipline or field of study selected by the student. Includes an intensive study of research findings, scholarly publications and advanced experimentation with a focus on the improvement of instruction. To be taken during last 12 hours before graduation. Prerequisites: EDCI 6310 Research Methods in Education and EDCI 6307 Research, Issues and Trends in Education.

EDCI 6309 Learning Theories for Mathematics Instruction [3-0]

This course examines instructional learning theories about how people learn mathematics and the ability to apply these theories for effective mathematics teaching. This course will focus on understanding the processes involved in mathematical thinking, the impact of learning theory on mathematics instruction, expert-novice models of mathematical behavior and ways to enhance mathematics learning in the classroom.

EDCI 6310 Research Methods in Education

This course will introduce the students to various research methods. Their application for elementary and secondary educators will be emphasized. A qualitative research paper and a quantitative proposal will be required. This course should be taken within the first nine hours of coursework. Cross-listed with ED 6300 and EDUL 6300.

EARLY CHILDHOOD

EDEC 6380 The Young Child in a Multicultural Society [3-0]

as scheduled

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 First and Second Language Development in Young Children [3-0]

as scheduled

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 Development [3-0]

as scheduled

This course will focus on the perspective that the literacy process is a developmental one that 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 Setting I

as scheduled

On-site internship in a public setting with focus on the physical, motor and social development of the young child. Prerequisites: Fifteen Early Childhood program graduate hours to include PSY 6330, SOCI 6310 and EDEC 6385.

EDEC 6391 Development and Administration of Early Childhood Programs [3-0]

as scheduled

Study and analysis of the organizational structure and functional operation of nursery programs, daycare, pre-kindergarten and kindergarten programs. Existing educational research projects now being conducted will be surveyed.

EDEC 6392 Internship in Early Childhood Setting II

as scheduled

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: Thirty Early Childhood program graduate hours to include EDEC 6380, EDEC 6381, EDEC 6382, EDEC 6390 and six hours from Communication, English and/or Spanish.

MATHEMATICS EDUCATION

EDMA 6328 Mathematics in the School Curriculum [3-0]

fall, spring, summer

The course presents effective teaching methods and learning materials for the mathematics school curriculum. Current mathematics education research and trends of learning and teaching mathematics for all learners will be discussed,

including linguistically-diverse populations. It examines the national and state curriculum standards and their implementation into the mathematics curricula. This course can be repeated for credit when the topic varies.

SCIENCE EDUCATION

EDSC 6326 Science in the School Curriculum [3-0]

[3-0]

fall, spring, summer

This course deals with the purposes, selections and organization of content, teaching and learning procedures and evaluation of outcomes in science instruction. This course can be repeated for credit when the topic varies.

EDUCATIONAL TECHNOLOGY

EDTC 6301 Instructional Technology [3-0]

This course provides a history and overview of the field of instructional technology and technology's role in curriculum development and its impact on school change. Application of technology in classroom instruction will be emphasized. A review of literature in the field of educational technology, demonstrations of technologies in different educational settings and methods of inquiry and analysis to evaluate the effectiveness of instructional programs for teaching and learning will be explored. Strategies for integrating technology into the K-12 curriculum, technology in a student-centered learning environment, cooperative learning, problem-solving and higher order thinking skills will be addressed. Strategies for including students with diverse learning needs will be included. Prerequisite: EDCI 6310.

EDTC 6302 Internet & WWW for Teaching and Learning [3-0]

This course presents educational resources and issues related to K-12 curriculum and instructional materials available on the Internet. An overview of Internet, communication via e-mail, list-serves and chat will be presented. The use of search engines, Webquests, online lesson plans and student projects will be explored. Methods for evaluation of materials appropriate for in-class application, evaluation of Web sites for quality, appropriateness and educational value are presented.

Prerequisite: EDCI 6310, EDTC 6301 or consent of instructor.

EDTC 6303 Instructional Design [3-0]

This course explores standard and alternative models for designing instruction to guide the student in systematically developing an instructional unit. Course includes examination

of theoretical and practical issues in designing effective instruction; use of technology to deliver instruction; designing, development and review of instructional strategies; classroom instruction and appropriate instructional design; creating and evaluating learning systems; and development of educational and instructional training programs. Practical and theoretical means for ascertaining the needs of learners, implementations of specific technologies to meet those needs and assessment of effectiveness of those technologies in meeting learner's needs will be presented. Prerequisite: EDCI 6310, EDTC 6301 or consent of instructor.

EDTC 6304 Multimedia Production [3-0]

This course presents pertinent issues and trends in the selection and development of multimedia for instructional purposes. Research on the design of computer-aided instruction and computer utilization in the K-12 classroom will be explored. Methods of evaluating the scope and sequence of software, software selection and acquisition will be introduced. Students will apply the modern technologies and principles of curriculum development to develop interactive multimedia materials to meet specific instructional objectives, field test their product and assess its effectiveness. Prerequisites: EDCI 6310, EDTC 6301, 6302, 6203 or consent of instructor.

EDTC 6305 Research, Issues, and Trends in Instructional Technology

fall, spring, summer [3-0]

This course presents critical explorations and discussion of trends and issues of current and historical significance to instructional technology. Readings will include contributions of key scholars, past and present, in instructional technology and examines the role and impact of emerging technologies in education. The course may be repeated for credit when topics vary.

EDTC 6306 Special Topics: Projects in Instructional Technology

fall, spring, summer [3-0]

In this course students will engage in critical inquiry focused on an emphasis area in educational technology in public schools. Specific topics will vary. Students will complete one or more aspects of a research project resulting in a final project proposal or report. This course may be repeated for credit when topics vary.

EDUCATIONAL LEADERSHIP

EDUL 6236 Problems in Education [2-0]

fall, spring, summer

The course's major emphasis will be on current innovations

in education ranging from teacher appraisals to curricular innovations

EDUL 6300 Introduction to Research and Evaluation [3-0]

fall, spring, summer

A study of research methods in educational leadership including qualitative, quantitative and educational evaluation methods as they apply to data-driven decision-making in K-12 schools. Students are required to begin a research or evaluation project that must be completed in EDUL 6367. Prerequisites: Twelve hours of graduate courses.

EDUL 6330 Principles of Public School Leadership [3-0]

fall, spring, summer

This course is an overview of public school administration with a focus on the principles and procedures for developing and implementing a sound instructional improvement plan. Topics will include assessment of campus needs, school law, taxation, other campus support services, leadership of instructional personnel and staff, finance, budgeting, leadership roles, curriculum, physical plant operation and maintenance as they relate to campus leadership. This course is designed for individuals without a master's degree in educational administration and who are seeking principal certification.

EDUL 6331 Curriculum and Instructional Leadership [3-0]

fall, spring, summer

Focus on curriculum development, Implementation and evaluation at all levels of the school and district with an emphasis on instructional leadership practices for teachers, principals and district administrators that improve the teaching and learning processes for the benefit of students. This course is designed for individuals without a master's in educational administration who are seeking principalship certification.

EDUL 6332 Instructional Support Programs and the Law [3-0]

fall, spring, summer

Emphasis is placed on the administration of special instructional and support programs in the PreK-12 setting. Programs investigated include special education, bilingual education, migrant education, guidance and counseling and other key programs intended to support student learning. The context of course topics will be constitutional provisions, statutory laws, court decisions, torts and regulations governing public schools. This course is designed for individuals without a master's in educational administration and who are seeking principal certification.

EDUL 6333 Curriculum Development [3-0]

fall, spring, summer

This course examines systematic approaches to developing, implementing and evaluating the K-12 curricula at the; local school district and campus levels. Local compliance options for curricular offerings reflective on current issues and trend studied.

EDUL 6334 Instructional Leadership [3-0]

fall, spring, summer

This course examines effective instructional approaches and programs used in schools. It explores critical issues specific to curriculum, innovative instructional methods, and the role of educators as school leaders. Additionally, the course focuses on the development of educators as leaders in assessment, research and evaluation.

EDUL 6335 Leadership for Successful Schools [3-0]

fall, spring, summer

The course builds on the literature on school and community change and practices that work well in a local and regional context of change. This course examines these relational processes as well as broader cultural and political realities that school leaders must understand in order to lead successful.

EDUL 6336 Problems in Education [3-0]

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.

EDUL 6337 Administration of Special Instructional Programs [3-0]

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.

EDUL 6338 School Principalship [3-0]

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.

EDUL 6339 Organizational Leadership [3-0]

fall, spring, summer

A study of major organizational leadership models and their applicability in various school settings. The course focuses on leadership styles used in education. Students will be engaged in identifying major models and comparing them through field based activities with current leadership styles at school district and local campus levels, as these pertain to decision making and problem solving.

EDUL 6367 Introduction to Statistical Methods and Data-Driven Decision Making [3-0]

fall, spring, summer

Practical applications on how to utilize descriptive and inferential statistical methods to inform quality data-driven decision making in K-12 school settings. An evaluation or research project that was initiated during EDUL 6300 will be completed during this course.

Prerequisites: EDUL 6300 and EDUL 6369.

EDUL 6369 Administrative Technology in Schools [3-0]

fall, spring, summer

A study of model computer management information systems and software available to facilitate public school management. Areas to be surveyed may include data management, data processing, telecommunications, word processing, networking and presentations.

EDUL 6384 Introduction to Educational Administration [3-0]

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.

EDUL 6385 Public School Law [3-0]

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.

EDUL 6386 School Support Services [3-0]

fall, spring, summer

This course will examine the organization and management of school support services to include, but not limited to, student guidance and counseling services, student health services, food services, maintenance and operation, janitorial services, transportation services and student activity programs/university interscholastic league.

EDUL 6388 Sociocultural Foundations of Education [3-0]

fall, spring, summer

Identification and analysis of cultural forces that 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 that 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.

EDUL 6389 Administration and Organization of School Business Services [3-0]

fall, spring, summer

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.

EDUL 6392 School-Community Relations [3-0]
fall, spring, summer
Examination of the relationships between the school and its internal and external constituencies.

EDUL 6393 Administration of School Staff Personnel [3-0]
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.

EDUL 6398 Internship in Principalship
fall (*Prerequisite for EDUL 6399*)
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.

EDUL 6399 Internship in Principalship
spring
Part II of a field-based course in which students practice competencies and theories acquired as they assume responsibilities as principals in local school districts.

EDUL 6436 Problems in Education [4-0]
fall, spring, summer
The course's major emphasis will be on current innovations in education ranging from teacher appraisals to curricular innovations

EDUL 7300 Thesis
The student is required to complete an individual research project under the direction and supervision of a graduate thesis committee. The thesis will be defended and approved by the majority of the thesis committee.

EDUL 7301 Thesis II
The student is required to complete an individual research project under the direction and supervision of a graduate thesis committee. The thesis will be defended and approved by the majority of the thesis committee.

EDUL 7312 Social-Political Problems and the Superintendency [3-0]
spring, even years
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.

EDUL 7314 The Superintendency [3-0]
fall, even years
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.

EDUL 7315 Texas School Finance and Facilities Administration [3-0]
fall, odd years
An examination of the basic concepts of Texas school finance including issues involving federal, state and local financial support of education, state financial systems, taxation, budgeting and fiscal management. The course also focuses on the finance of capital programs and includes the planning, maintaining and management of public school facilities.

EDUL 7316 Ethics and Decision-Making [3-0]
An examination of decision-making issues and dilemmas that confront the school superintendent in today's society. Students are immersed in the decision-making process through the use and development of case studies and other simulations that demonstrate how the values and ethics of individual leaders impact their decision-making process.

EDUL 7319 Internship for the Superintendent I [3-0]
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.

EDUL 7320 Internship for the Superintendent II [3-0]
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.

EDUL 8123 Selected Topics in Research
as scheduled
Group and individual projects in research design, research methodologies and research execution. May be repeated for credit.

EDUL 8134 Topical Seminar [1-0]
as scheduled
May be repeated for credit when the topics vary.

EDUL 8223 Selected Topics in Research
as scheduled
Group and individual projects in research design, research methodologies and research execution. May be repeated for credit.

EDUL 8234 Topical Seminar [2-0]
as scheduled
May be repeated for credit when the topics vary.

EDUL 8301 Leadership and Organizational Behavior [3-0]
as scheduled

Application of theories of organization to the problems of educational institutions. Subjects such as motivation, work and careers, power and influence, communication and perceptions, group dynamics, work design and organizational control considered from the perspective of the leader and decision-maker.

EDUL 8302 Theories of Learning and Instruction [3-0]

as scheduled

Examination of various theories of learning and instruction and their impact on current teaching practices. Instructional leadership will receive emphasis.

EDUL 8303 Educational Politics and Policy [3-0]

as scheduled

Survey of theoretical and empirical literature related to educational politics and policy, including political systems theory, intergovernmental relations, power and conflict, community relations and intergroup theory, and policies dealing with equity, quality, efficiency and choice.

EDUL 8304 Social and Cultural Contexts of Education [3-0]

as scheduled

The relationship of contemporary educational institutions, both public school and higher education, to their social setting.

EDUL 8305 Economics of Education [3-0]

as scheduled

Survey of theoretical and empirical literature related to the economic context of educational institutions, including scarcity, income determination, expenditures, resource allocation and perspectives on progressivity and economic development.

EDUL 8306 Ethics and Values in Educational Administration [3-0]

as scheduled

Examination, from the point of view of various ethical systems, of issues of equity, distributive justice, codes of ethics in educational professions, treatment of students and other issues that face administrators of educational systems. Designed to sensitize prospective educational leaders to the ethical content of educational decisions.

EDUL 8307 Organizational Theory in Education [3-0]

as scheduled

Application of theories of organization to problems of educational institutions; designed to develop diagnostic skills necessary for successful administration of complex educational enterprises.

EDUL 8308 History of Education [3-0]

as scheduled

The development of American education, formal and informal, from colonial times until the present. Areas of emphasis include the historical influences on educational development, the issues of each time period and current

trends.

EDUL 8320 Design and Analysis of Field Studies [3-0]

as scheduled

Concepts and methods for designing and analyzing research, e.g. surveys, nonequivalent control groups, time-series, or various qualitative designs, will be investigated. May be repeated for credit once.

EDUL 8321 Data Analysis [3-0]

as scheduled

Computer methods for qualitative or quantitative analyses of data and management of field research will be investigated. May be repeated for credit once.

EDUL 8322 Qualitative Research I [3-0]

as scheduled

Students will examine qualitative and ethnographic research methods, including participant observation and open-ended interviewing to address the problems of educational organizations.

EDUL 8323 Selected Topics in Research

as scheduled

Group and individual projects in research design, research methodologies and research execution. May be repeated for credit.

EDUL 8330 Education Law Seminar [3-0]

as scheduled

Analysis of legal problems in education, sources of law and the methods of legal research.

EDUL 8334 Topical Seminar [3-0]

as scheduled

May be repeated for credit when the topics vary.

EDUL 8336 Problems in Education

as scheduled

Major emphasis on current innovations in education. Students will conduct research related to selected problems, including action research, and working with educational determinants, new education programs, classroom teachers and/or 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.

EDUL 8340 Higher Education Law [3-0]

as scheduled

An overview of historic and contemporary influences of the United States and state constitutions, federal and state statutes, case law and agency regulations that impact higher-education institutions and their administrators, faculties and students.

EDUL 8341 Student Affairs in Higher Education [3-0]

as scheduled

Student affairs in higher education is a study of the professional foundations and conceptual models for student affairs administration, programs, and services in community colleges and four-year institutions. Also included will be the development of higher education administrative skills, including those of particular relevance to student affairs.

EDUL 8342 Policy, Politics and Governance of Higher Education [3-0]

as scheduled

This course is an advanced study of problems, issues and trends related to governance, organization and control of higher educational institutions.

EDUL 8343 Higher Education Finance [3-0]

as scheduled

Higher Education Finance is a study of contemporary policies and practices in the finance of American higher education. The interpretation and uses of financial data in the administration of institutions; sources and methods of securing funds; budget processes; and policies and issues regarding the finance of higher education are some of the topics considered.

EDUL 8344 The American Community College [3-0]

as scheduled

The American Community College is a study of the institutional components of the community college including a review of history, purposes, clientele, organization, finance, programs, and societal functions. Current issues facing community colleges are studied.

EDUL 8350 Doctoral Internship

as scheduled

As stated in the THECB standards for Ed.D. programs in educational administration/leadership, "Each doctoral student will participate in, and be extensively evaluated in, an internship in an operational setting distinct from prior or concurrent work experience." The site will be determined by agreement between the student and her/his advisor. Each student will have this experience during the final 30 hours of the program. The advisor, in cooperation with the on-site cooperating supervisor, will provide continuous monitoring and advisement of the student's experience, beginning with the selection of a set of objectives for the student for the period of the internship. The practicing school leaders used to coordinate field experiences will also be involved selectively in doctoral internships. May be repeated for credit once.

EDUL 8351 Introduction to Applied Research Methods

This course will include an introduction to research methodology used in historical, case study, survey, descriptive, experimental, correlational and inferential research.

EDUL 8353 Quantitative Research Methods I

Specialized research design and methodology of quantitative

inquiry, in univariate and multivariate analysis.

EDUL 8381 Problems in Organization and Administration of Public Schools [3-0]

as scheduled

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.

EDUL 8190, 8390, 8690, 8990

Dissertation-Research

(One, three or six semester credit hours.)

EDUL 8195, 8395, 8695, 8995

Dissertation-Writing

(One, three or six semester credit hours.)

Electrical Engineering

ELEE 6181 Graduate Seminar in Electrical Engineering [1-0]

as scheduled

Conferences and discussions of various topics in electrical and computer engineering by faculty, graduate students, and speakers from industry and other institutions. Prerequisite: Graduate standing.

ELEE 6300 Signals and Systems [3-0]

as scheduled

Signals theory, Fourier and Laplace transforms, probability, random variables, basic random process, spectral analysis, random signal representations, detection of signals with known and unknown parameters, estimation of signal parameters, applications.

Prerequisite: ELEE 3340 or equivalent.

ELEE 6305 Numerical Techniques in Electrical Engineering [3-0]

as scheduled

Survey of numerical and computational techniques including solution of large linear systems, optimization, numerical integration and solution of differential equations, finite difference and finite element techniques, and moment methods with applications and projects selected from all areas of electrical engineering. Course will include both development of programs and use of existing commercial software.

Prerequisites: MATH 2401 and 3349 or equivalent.

ELEE 6310 Radio Communication Circuits and Systems [3-0]

as scheduled

Principles, analysis, and design of radio frequency

and microwave circuits and systems. Subjects include s-parameters, noise generation and noise figure, harmonic and intermodulation distortion, and high frequency active devices; with applications to amplifiers, oscillators and frequency synthesis.

Prerequisite: ELEE 4360 or equivalent, or consent of instructor.

ELEE 6315 Applied Electromagnetics [3-0]

as scheduled

Applications of electromagnetic fields and waves, with subjects varying from semester to semester. Topics could include: electromagnetic compatibility (EMC), electromagnetics in satellite and wireless communications, and electromagnetic measurements. May be repeated for credit as topics vary.

Prerequisite: ELEE 3315 or equivalent, or consent of instructor.

ELEE 6320 Semiconductor Devices [3-0]

as scheduled

Theory and application of advanced semiconductor devices including heterostructures, integrated circuits, semiconductor memories, charge transfer devices and microwave devices.

Prerequisite: ELEE 4338 or equivalent.

ELEE 6327 Neutral Networks [3-0]

as scheduled

Modeling, analysis, and simulation of artificial neural networks. Learning processes for neural networks. Supervised learning techniques using back-propagation. Self-organizing maps and competitive learning. Recurrent neural networks. Neuro-dynamical models and Hopfield networks. Applications of neural networks to control, pattern recognition, communications, signal processing, forecasting and time-series analysis.

Prerequisite: MATH 3349 or the consent of the instructor.

ELEE 6330 Linear Dynamic Systems [3-0]

as scheduled

Introduction to linear dynamic systems; state-space analysis; stability theory; applications to feedback control; elements of optimal control.

Prerequisite: ELEE 4321 or equivalent, or consent of instructor.

ELEE 6331 Nonlinear Systems [3-0]

as scheduled

Introduction to analysis of nonlinear systems. Lyapunov stability analysis. Advanced stability analysis. Input-Output stability. Analysis of feedback systems. Analysis of singular perturbation models. Nonlinear feedback control. Feedback linearization. Lyapunov-based design.

Prerequisites: ELEE 4321 and ELEE 6330.

ELEE 6332 Optimization [3-0]

as scheduled

Introduction to linear and nonlinear optimization.

Simplex and non-simplex methods. Nonlinear constrained optimization methods. Genetic algorithms. Engineering Optimization applications. Numerical methods for optimization of engineering systems.

Prerequisite: MATH 3349 or equivalent or consent of the instructor.

ELEE 6335 Advanced Computer Architecture [3-0]

as scheduled

Covers trends and measuring and reporting of improvements in computer technology; instruction set principles, hardware techniques for instruction level parallelism (ILP) as applied to reduced instruction set architecture (RISC) such as dynamic scheduling and thread-level parallelism; loop unrolling and enhancing loop level parallelism; memory hierarchy mapping and miss rate reduction techniques and performance calculations; and interconnection networks and clusters related issues. This course is equivalent to CSCI 6335.

Prerequisite: CSCI 6300 or CSCI 4335, or ELEE 3435.

ELEE 6336 Fiber Optical Communication Systems [3-0]

as scheduled

Theory of light propagation in optical fibers, bandwidth and attenuation of fiber optic systems, principles of semiconductor lasers and photodiodes, design of optical receivers and transmitters, modulation techniques, coherent optical communication systems.

Prerequisite: ELEE 4351 or equivalent.

ELEE 6345 Digital Signal Processing I [3-0]

as scheduled

Properties of discrete signals and systems. Reconstruction of continuous waveforms from discrete signals. FFT, DFT, and Z transforms. Digital filter design for noisy deterministic and stochastic signals.

Prerequisite: ELEE 4360.

ELEE 6346 Digital Signal Processing II [3-0]

as scheduled

DSP real-time applications, DSP chip architecture. Advanced topics in digital signal processing.

Prerequisite: ELEE 6345.

ELEE 6347 Image Processing [3-0]

as scheduled

This course covers topics in image processing. The course covers vision strategies, perception, color image processing, image segmentation, morphology and texture analysis.

Prerequisite: Graduate standing.

ELEE 6360 High Speed Networks [3-0]

as scheduled

Introduction to networking concepts, latest networking architecture and protocols for high-speed communications. Local Area Networks (LANs), Wide Area Networks (WANs), IP/ATM, SONET.

Prerequisite: Consent of the instructor.

ELEE 6361 Broadband Communications [3-0]

as scheduled

Introduction to broadband networking concepts, latest broadband networking technologies and protocols. Broadband backbone and access networks, DSL networks, Fiber-to-the-Curb (FTTC) networks, broadband switching architecture and protocols. Traffic management, congestion control, buffering issues, quality of service for broadband networks.

Prerequisite: Consent of the instructor.

ELEE 6362 Internet Protocols [3-0]

as scheduled

This course introduces students to the architecture and the protocols of the Internet. This course focuses on the protocols used by the Internet and investigates how the Internet works and where it will possibly go. Some of the important topics include application protocols, transport protocols, routing protocols, management protocols, quality of service, domain name services and mail services. Basic knowledge of computer networks is required for students taking this course.

ELEE 6372 Parallel and Distributed Systems [3-0]

as scheduled

Study of parallel and distributed computing, including models algorithms, languages, compilers, interconnection networks and architectures. Distributed data, formal models of concurrency, protection and security in computer networks.

Prerequisites: ELEE 6335.

ELEE 6374 Advanced Digital System Design [3-0]

as scheduled

Modern logic design methodologies of large digital systems with standard SSI, MSI and LSI, including CPLD's and microprocessors. Multilevel digital simulation and hardware language description; principles and techniques of testability design and testing of digital logic circuits.

Prerequisite: ELEE 4303 or equivalent.

ELEE 6375 VLSI System Design I [3-0]

as scheduled

Fundamentals of VLSI design, VLSI design strategies. Chip design options, design methods, design capture tools and design verification tools. Topics include area-optimization, floor-plan and functional block placement, routing and functional testing for large systems, subsystem design and system design examples. Prerequisites: ELEE 4303 and ELEE 4375.

ELEE 6376 VLSI System Design II [3-0]

as scheduled

Microelectronic systems architecture; design strategies for test; chip-level test techniques; system-level test techniques; CMOS system case studies; Wafer scale integration; ultra-fast VLSI circuits and systems-Introduction to GaAs technology. Prerequisite: ELEE 6375.

ELEE 6385 Independent Study

as scheduled

Individual variable-credit research, design or analysis on advanced phases of electrical and computer engineering problems conducted under the direct supervision of a faculty member.

Prerequisite: Permission of the instructor.

ELEE 6399 Topics in Electrical Engineering

Advanced topics of contemporary interest in electrical or computer engineering. May be repeated for credit when topic varies.

Prerequisite: Permission of the instructor.

ELEE 7300 Master Thesis I

First part of two course sequence.

Prerequisites: Graduate standing and consent of thesis advisor.

ELEE 7301 Master Thesis II

Second part of two course sequence.

Prerequisite: ELEE 7300.

Elementary School Mathematics

EMAT 6396 Special Topics in Elementary School Mathematics [3-0]

This course covers special topics in elementary school mathematics teaching. May be repeated when the topic is different. Prerequisite: Consent of instructor.

English

ENG 6302 Modern English Syntax [3-0]

as scheduled

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 Second Language.

Prerequisite: ENG 6350 or consent of instructor.

ENG 6310 Studies in Genre [3-0]

spring

Focuses on the literary and cultural productions within the context of a particular genre, including poetry, short story, the novel, drama, autobiography and epistolary literature. May be repeated for credit when the topic varies.

ENG 6315 Workshop in Creative Writing [3-0]

spring
Advanced study for creative writing with emphasis on poetry, fiction or non-fiction. Includes workshops of student work and formal study of craft and genre.

ENG 6316 Studies in Mexican-American Literature [3-0]

as scheduled
Advanced study of the literature by and about Mexican Americans, with emphasis on the literary techniques and the cultural reflections in this literature. May be repeated for credit when the topic varies.

ENG 6318 Studies in Ethnic Literature [3-0]

spring
Focus on the literature of specific ethnic groups with special attention to critical race theory, cultural theory and the cultural productions of traditionally underrepresented minority groups. May be repeated for credit when the topic varies.

ENG 6319 Studies in Gender and Literature [3-0]

spring
A study of literature and culture in relation to the question of gender identity, with special emphasis on feminist, gender and homosexuality theory as well as the literary conventions, movements and histories that inform gender identity. May be repeated for credit when the topic varies.

ENG 6320 Introduction to Graduate Studies in Rhetoric, Composition and Literacy [3-0]

spring
Introduces new graduate students in rhetoric, composition and literacy to the discipline, with emphasis on professional issues, research methods and applications.

ENG 6321 Studies in Language and Culture [3-0]

as scheduled
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 6322 Theory in Rhetoric, Composition and Literacy [3-0]

spring
Focus on various theoretical approaches to the study of discourse with application of theories to a significant analytical project. May be repeated for credit when the topic varies.

ENG 6323 History of Rhetoric, Composition and Literacy Studies [3-0]

spring
Focus on the historical development of rhetoric, composition pedagogy or literacy studies. May be repeated for credit when the topic varies.

ENG 6324 Pedagogy in Rhetoric, Composition and Literacy [3-0]

spring
Explores issues related to the teaching of rhetoric, composition and other literacies, with emphasis on a theoretically informed practice. May be repeated for credit when the topic varies.

ENG 6325 Studies in Composition Techniques [3-0]

as scheduled
Advanced study of composition theory and techniques and methods of teaching composition, with special emphasis on teaching English composition to college freshmen. Required of all English teaching assistants. May be repeated for credit when the topic varies.

ENG 6326 Professional Writing [3-0]

spring
Applied study of the theories and approaches to professional discourse production. Student will design and produce a professional writing project.

ENG 6327 Writing Academic Discourse [3-0]

spring
Provides study and practice writing professional-level academic discourse, including research project design, research proposals, professional journal articles and conference proposals and papers.

ENG 6328 Introduction to English as a Second Language [3-0]

as scheduled
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 ENG 6350 or consent of instructor.

ENG 6329 Problems in English as a Second Language [3-0]

as scheduled
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 6336 Fiction Workshop [3-0]

spring
A workshop course devoted to the craft of fiction writing. Students will read, write and critique literary fiction.

ENG 6337 Creative Nonfiction Workshop [3-0]

spring
Advanced study of creative nonfiction. Includes workshops of student writing, along with close analysis of published literary nonfiction and craft commentary by contemporary writers of creative nonfiction.

ENG 6338 Poetry Workshop [3-0]

spring

Advanced study of contemporary poetry, with an emphasis on writing original poems and discussing them in a workshop format, along with the close reading and analysis of published poems and poetry collections.

ENG 6339 Literature Translation Workshop [3-0]

as scheduled

A workshop course devoted to the craft of literary translation, primarily Spanish/English.

ENG 6345 Problems in Grammar, Dialects and Language Performance [3-0]

as scheduled

A study of the second language learner's transition from regional usage to standard usage. Emphasis on practical implementation of theories of grammar, dialects and language performance. May be repeated for credit when the topic varies.

ENG 6347 Problems in Literary Criticism [3-0]

as scheduled

Extensive study of major works, figures and topics on literary theory. May be repeated for credit when the topic varies.

ENG 6350 Introduction to Descriptive Linguistics for Teachers [3-0]

as scheduled

An introduction to the methods of linguistics science with emphasis on problem solving techniques and the application to specific problems. This course includes a research project exploring the application of linguistics to specific situations.

ENG 6351 Problems in Linguistics [3-0]

as scheduled

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 the Schedule of Classes.) Prerequisite: ENG 3319 or ENG 6350 or consent of the instructor.

ENG 6352 Practicum in English as a Second Language [3-0]

as scheduled

Supervised experience in teaching/working with learners of ESL in (a) ENG 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 [3-0]

as scheduled

Evaluation of second language learners of English following the principles and guidelines for diagnostic, placement, proficiency and classroom testing in ESL. Areas covered include principles and procedures for selecting, preparing, administering and interpreting results of tests of ESL learning.

Prerequisites: ENG 6328 and ENG 6329, or consent of instructor.

**ENG 6357 Screenwriting Workshop [3-0]
fall, spring, summer**

A workshop course devoted to the craft of screenwriting. Students will read, write and critique screenplays. The first time they take the course they will write (and rewrite) a 60 page screenplay. The second and third times they take the course they will write (and rewrite) a full length screenplay (120 pages).

**ENG 6358 Playwriting Workshop [3-0]
fall, spring, summer**

A workshop course devoted to the craft of playwriting. Students will read, write and critique dramatic fiction. The first time they take the course they will write (and rewrite) a one act play. The second time they will write (and rewrite) a full length play.

ENG 6360 Studies in English Literature [3-0]

usually offered three times per year

A study in English literature. May be repeated for credit when the topic varies. (Special topics to be announced in the Schedule of Classes.)

ENG 6362 Studies in Single Author [3-0]

spring

A study of the literary works and historical epoch of a single author, with emphasis on historical, biographical, cultural and aesthetic contexts. May be repeated for credit when the topic varies.

ENG 6365 Topics in Literary History [3-0]

fall

A study of the historical and cultural development of literary conventions, movements and/or schools of literary writing. May be repeated for credit when the topic varies.

ENG 6368 Form and Theory of Playwriting [3-0]

fall, spring, summer

A graduate level form and theory course designed to strengthen and enhance the student's writing while reading widely in the many forms of dramatic literature.

ENG 6369 Form and Theory of Screenwriting [3-0]

fall, spring, summer

A graduate level form and theory course designed to strengthen and enhance the student's writing while reading widely in the many forms of film literature.

ENG 6370 Studies in American Literature [3-0]
usually offered three times per year
A study in American literature. May be repeated for credit when the topic varies. (Special topics to be announced in the Schedule of Classes.)

ENG 6380 Studies in Comparative Literature [3-0]
spring
A study of particular topics, motifs, or genres in the literary or theoretical productions of two or more languages or cultures. May be repeated for credit when the topic varies.

ENG 6383 Topics in Post-Colonial Studies [3-0]
spring
Study of particular topics, motifs, theoretical approaches and historical movements in post-colonial literature and culture. May be repeated for credit when the topic varies.

ENG 6385 Topics in Cultural Studies [3-0]
spring
Study of the discipline of cultural studies with emphasis on its theoretical basis, significant historical movements, relevant political developments and various cultural artifacts. May be repeated for credit when the topic varies.

ENG 6386 Form and Theory ó Short Fiction [3-0]
spring
Studies in the elements of short fiction, including narrative design, character development, voice, tone, dialogue, point of view, imagery and plot.

ENG 6387 Form and Theory ó Nonfiction [3-0]
spring
Studies in the structure of literary nonfiction, including narrative elements such as characterization, dialogue, point of view and plot, as well as lyric elements such as sound patterning and poetic compression. Suitable for creative writers as well as students of literary criticism.

ENG 6388 Form and Theory ó Poetry [3-0]
spring
Advanced study of the forms, techniques and directions of contemporary poetry through intensive reading and writing practice.

ENG 6389 Form and Theory ó The Novel [3-0]
spring
Studies in the elements and structure of the novel, including narrative design, character development, voice, tone, dialogue, point of view, imagery and plot.

ENG 6390 Studies in Special Topics [3-0]
as scheduled
Extensive study in topics not limited to American or English literature. May be repeated for credit when the topic varies.

ENG 7300 Thesis
as scheduled

ENG 7301 Thesis
as scheduled

Educational Psychology

EPSY 6100 Seminar in Counseling and Guidance
This course will provide the student the opportunity to develop 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 one to six hours credit.
Prerequisite: Permission of instructor.

EPSY 6101 Seminar in Counseling and Guidance
This course will provide the student the opportunity to develop 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 one to six hours credit.
Prerequisite: Permission of instructor.

EPSY 6102 Seminar in Counseling and Guidance
This course will provide the student the opportunity to develop 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 one to six hours credit.
Prerequisite: Permission of instructor.

EPSY 6103 Seminar in Counseling and Guidance
This course will provide the student the opportunity to develop 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 one to six hours credit.
Prerequisite: Permission of instructor.

EPSY 6104 Seminar in Counseling and Guidance
This course will provide the student the opportunity to develop 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 one to six hours credit.
Prerequisite: Permission of instructor.

EPSY 6105 Seminar in Counseling and Guidance
This course will provide the student the opportunity to develop 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 one to six hours credit.
Prerequisite: Permission of instructor.

EPSY 6300 Advanced Individual Differences [3-0]
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.

EPSY 6301 Psychopathology for Children and Adolescents [3-0]

This course focuses on the psychopathology of children and adolescents.

Prerequisite: EPSY 6310 and PSY 6330

EPSY 6302 Psychology of Mental Retardation [3-0]

The content of this course will include causes, symptoms and implications of mental retardation to the family, community, vocational adjustment and education, incorporating the child's cultural and linguistic background.

EPSY 6303 Learning Disabilities [3-0]

The content of this course will include the etiology and symptoms of learning disabilities. Implications for the family, education, community and vocational adjustment, within the framework of the child's cultural and linguistic background will be addressed.

EPSY 6304 Culturally and Linguistically Diverse Exceptional Learner I: Problems, Trends and Issues [3-0]

This course will provide an overview of issues related to bilingual education, special education, and bilingual special education. Topics will include legal requirements, assessment, and representation of the Culturally and Linguistically Diverse Exceptional (CLDE) learner in special education.

EPSY 6305 Severe and Profound Disabilities: Medical and Physical Aspects of Individuals with Severe and Profound Disabilities [3-0]

This course will address medical and physical aspects affecting the education of individuals, including the culturally and linguistically different student. Historical perspectives and types and causes of medical and physical impairments will be included.

EPSY 6306 Special Education Law

fall, spring

This course presents the information for educators to understand the history of special education laws and the requirements of these laws. The emphasis of this course is on the legal requirements of providing a free appropriate public education to students with disabilities.

EPSY 6307 Legal Foundations of Special Education

This course presents the information for educators to understand the history and development of special education laws and the requirements of the laws. The emphasis of this course is on the legal requirements of providing a free appropriate public education to students with disabilities.

EPSY 6310 Ethical and Legal Issues in the Role of the School Psychologist [3-0]

History and foundations, ethical, and legal issues of the professional school psychologist are presented. Service models of interventions and professional responsibilities in the role of the school psychologist are included.

EPSY 6311 Applied Behavioral and Cognitive Therapies [3-0]

This course will address basic behavioral and cognitive learning theory and proceed to specific applications derived from these theories, e.g., cognitive behavioral therapy, task analysis and various other therapies based on classical and operant conditioning. The special relevance of these therapies for exceptional individuals who are manifesting affective, social, cognitive or motor problems will be discussed as well as cultural factors that impinge on the therapeutic and consultation process.

EPSY 6312 Consultation [3-0]

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 that 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 that deliver services to individuals and clients. Practica required.

EPSY 6313 Severe and Profound Disabilities: Consultation and Collaboration [3-0]

fall, spring, summer

This course will address the roles of the special education teacher as a consultant on the interdisciplinary team. Emphasis will be given to methods and techniques for consulting with families, including culturally and linguistically different populations. Issues of parent training service environment, regular classroom inclusion and advocacy will be included.

EPSY 6314 Severe and Profound Disabilities: Strategies, Curricula and Materials [3-0]

This course will survey assessment and educational strategies, curricula, and materials for individuals, including the culturally and linguistically different, with severe and profound disabilities. Emphasis will be on development of communication, cognitive and social skills and instructional technology.

EPSY 6315 Emotional Disturbance: Strategies, Curricula and Materials [3-0]

Program planning within the framework of the child's cultural background for effective instruction and classroom management of the behaviorally disordered will be addressed. The course will include academic, instruction, social skills, crisis intervention and cognitive and behavioral management strategies. Field experience is required.

EPSY 6316 Reading Instruction within the Context of Response to Intervention [3-0]

A major purpose for this course is to provide students with an in depth examination of the response to intervention model as defined by IDEA 2004. Students will examine the differences between RTI and traditional models of identifying students with disabilities. Critical components of an RTI model will be introduced with emphasis given to the appropriateness and quality of reading instruction. Core components of reading instruction as identified by the National Reading Panel and reflected in the Texas Essential Knowledge and Skills will be studied within the context of an RTI model.

EPSY 6317 Literacy for Secondary Students with Mild Disabilities [3-0]

This course will include teaching strategies for reading as well as other resources for understanding in the content areas. The student will use diagnostic tools and techniques to determine reading needs of the secondary student with mild disabilities. The course will emphasize the culturally and linguistically diverse student, literacy skills, learning to learn strategies and modification of curricula and materials.

EPSY 6318 Instructional Technology and Adaptive Assistive Devices for the Exceptional Individual [3-0]

The content of this course will include current instructional technology including computer-assisted instruction, interactive television and adaptive devices used for the cognitively, emotionally, physically and sensory impaired individuals.

EPSY 6320 Consultation and Collaboration with Parents, Professionals and Agencies [3-0]

This course will include theory, techniques and research concerns in 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.

EPSY 6322 Advanced Educational Psychology and Principles of Learning [3-0]

This course integrates theories of educational psychology with practical classroom applications. The focus of this course is to prepare school personnel to meet the needs of learners through realistically evaluating students' needs, recognizing problems, constraints and limitations in students, in classrooms and in themselves. Course content includes developmental issues, learning cognition and motivational theories, classroom management, instruction, multicultural classrooms and individual differences.

EPSY 6330 Identifying the Gifted and Talented [3-0]

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.

EPSY 6331 Curriculum, Methods and Materials for the Gifted and Talented [3-0]

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.

EPSY 6332 Creativity and the Gifted and Talented [3-0]

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.

EPSY 6333 Counseling the Gifted and Talented [3-0]

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.

EPSY 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; and scheduled seminars and conferences for discussing and critiquing practicum experiences.

EPSY 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.

EPSY 6337 Administration of Gifted and Talented Programs [3-0]

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.

EPSY 6338 Atypical Gifted Children

The content of this course will include discussion of the characteristics/behaviors/needs of atypical gifted student, the analysis of procedures for identifying and developing programs for the atypical gifted, and the understanding of the social and emotional needs of this special population of students.

**EPSY 6340 Critical and Creative Thinking
in Gifted Students [3-0]**

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.

**EPSY 6341 Gifted Students in the Visual
and Performing Arts [3-0]**

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.

EPSY 6342 Seminar in Gifted Education [3-0]

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.

**EPSY 6344 Gifted Child in the
Regular Classroom [3-0]**

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.

EPSY 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.

EPSY 6350 Introduction to Statistics [3-0]

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, two-way and three-way factorial ANOVA. There will be an emphasis on hypothesis testing; Type I and II errors; and understanding of statistical significance and practical or functional significance.

EPSY 6351 Intermediate Statistics [3-0]

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: EDUL 6367 or consent of instructor.

EPSY 6352 Multivariate Analysis [3-0]

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.

Prerequisites: EDUL 6367 and EPSY 6351 or equivalent or consent of instructor.

EPSY 6353 Seminar in Statistical Analysis [3-0]

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.

EPSY 6354 Program Evaluation [3-0]

The course in program evaluation includes formative and summative evaluation through decision, program modification, objectives, outcome and performance-based evaluation models that affect policy and program change. This course will require assessing and interpreting a project in program evaluation.

EPSY 6355 Introduction to Research [3-0]

This course will include case and multisite studies, interviewing and developing observational schedules, participant/observer, field notes, photography, life history and ethnographic methods, coding categories and data analysis.

**EPSY 6356 Research Methods in
Single-Subject Design**

This course will provide an overview of single subject design research methods and their application within special education. A variety of single-subject research designs will be examined, and the strengths and weaknesses of each design will be identified. Issues related to analysis of data, social validity and ethical use of single-subject research methodology will be discussed.

EPSY 6358 Introduction to Research [3-0]

This course will provide an overview of research methods used in educational settings. Both quantitative and qualitative methods will be covered. Ethical and legal issues associated with conducting research will be addressed.

Students will demonstrate their knowledge and skills by completing a project.

EPSY 6361 Organization and Management of Guidance and Counseling Programs [3-0]

This course offers counselors the opportunity to acquire the knowledge, skills and attitudes necessary for effectively planning, implementing and evaluating a comprehensive developmental guidance and counseling program that is learner-centered and includes the four components: guidance curriculum, responsive services, individual planning and system support.

EPSY 6362 Personal/Social Development of the Counselor [3-0]

This course facilitates the personal/social development of the counselor through self-understanding (intrapersonal) and understanding of self and others (interpersonal). Knowledge, skills and attitudes necessary for effective human relationships and for creating a climate of mutual respect in systems will be emphasized.
Prerequisite: EPSY 6361.

EPSY 6363 Counseling Theories [3-0]

The purpose of the course is to engage in an in-depth study of selected theories of individual and group counseling. Focus will be on understanding the importance of theory in counseling, building a theoretical knowledge base for counseling, and critical examination of theories most appropriate for individual and group counseling.
Prerequisites: EPSY 6361 and EPSY 6362.

EPSY 6364 Counseling Methods and Techniques [3-0]

This course provides professionals the opportunity to acquire knowledge in basic assessment and intervention methods/techniques. The focus is on counseling individual life management problems, issues and concerns. Assessment and intervention techniques will address problem management, problem solving and decision making in the personal, social, educational and career/vocational areas. Demonstrated competence in the application of these methods and techniques requires field-based experiences in individual counseling with clients. Ethical and legal issues related to counseling are introduced.
Prerequisites: EPSY 6361, EPSY 6362, EPSY 6363 and EPSY 6390.

EPSY 6365 Group Counseling Techniques [3-0]

The purpose of this course is to assist professionals to develop competency in group leadership including knowledge of group processes and methods for leading groups as well as leadership/facilitative skills and techniques with application to developmental and remedial counseling groups, consulting groups, life-skills and human relations training groups, developmental guidance groups and decision making/problem solving task groups.

Prerequisites: EPSY 6361, EPSY 6362, EPSY 6363, EPSY 6364 and clear admission to candidacy.

EPSY 6366 Lifestyle and Career Development [3-0]

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.

EPSY 6367 Assessment of Counseling and Development [3-0]

This course examines the conceptual and practical bases for individual and group assessment, formal and informal assessment procedures, interpretation of assessment data, and preparation of reports for consulting with students, parents, teachers and other professional personnel.
Prerequisite: EPSY 6370 or EPSY 6350.

EPSY 6368 Counseling Practicum I [3-0]

A competency-based practicum. Students will engage in counseling and guidance planning through practical experiences in the laboratory and in the 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 the course is dependent on admission to counselor education candidacy. The course must be taken within the last nine hours of the program. Limit 12 students.
Prerequisites: EPSY 6360, EPSY 6361, EPSY 6362, EPSY 6363, EPSY 6364 and EPSY 6365.

EPSY 6369 Counseling Practicum II [3-0]

This course is a field based practicum designed to give the student the opportunity to obtain counseling experience. Emphasis is on individual supervision and group discussion of professional and ethical issues as they occur in a variety of professional settings. Seventy-five (75) clock hours of experience are required.
Prerequisites: EPSY 6361, EPSY 6362, EPSY 6363, EPSY 6364, EPSY 6365 and EPSY 6368.

EPSY 6370 Educational and Psychological Measurement [3-0]

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 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.

EPSY 6371 Models of Unbiased Assessment [3-0]

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. Prerequisites: EPSY 6370 and ED 6367 or consent of instructor.

EPSY 6373 Seminar in Quantitative Methods [3-0]

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.

EPSY 6380 Introduction to Cognitive and Achievement Assessment [3-0]

The content of this course will include the basic introduction of administering, scoring and interpreting cognitive and achievement assessment instruments. Practica required. Prerequisite: EPSY 6370 or consent of instructor.

EPSY 6381 Advanced Cognitive and Achievement Assessment [3-0]

The content of this course will include advanced instruction in the administering, scoring, interpreting and report writing of cognitive, achievement, and other developmental measures. Practica required. Prerequisite: EPSY 6380.

EPSY 6382 Bilingual and Multicultural Assessment [3-0]

In this course students will be presented with the psychometric theories, issues and strategies to consider in assessing children and youth from various cultural, ethnic and linguistic backgrounds. Students will have an opportunity to use a variety of assessment techniques in English and Spanish. Practica required.

Prerequisites: For educational diagnostician students EPSY 6380; school psychology students EPSY 6380 and 6381.

EPSY 6383 Personality Assessment of Childhood [3-0]

The content of this course will include administration, scoring and interpretation of self-report inventories, projective drawings, behavioral observations, clinical interviews and introduction to projective techniques for intervention. Comprehensive report writing is included. Practica required.

Prerequisites: EPSY 6370, EPY 6380, EPSY 6381, EPSY 6301 and consent of instructor.

EPSY 6384 Topographic Brain Mapping and Cognitive Assessment [3-0]

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 EPSY 6351.

EPSY 6385 Autism Spectrum: Assessment and Program Planning [3-0]

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.

EPSY 6388 Severe and Profound Disabilities: Assessment Techniques and Program Planning [3-0]

This course will survey developmental strategies, curricula and materials for individuals, including the culturally and linguistically different with severe and profound disabilities. Emphasis will be on motor and self-help skills, environmental modification and adaptive equipment.

EPSY 6389 Culturally and Linguistically Diverse Exceptional Learner II: Characteristics [3-0]

This course will cover the culturally and linguistically diverse exceptional (CLDE) learner with low incidence and high incidence disabilities. Emphasis will be given to academic, linguistic and cognitive characteristics.

EPSY 6390 Human Growth and Development [3-0]

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 prenatal through old age.

EPSY 6391 Counseling the Culturally Diverse [3-0]

This course provides professionals the opportunity to acquire the knowledge, skills and attitudes necessary for effectively counseling culturally diverse populations. Focus in on the implications for counseling of social and cultural influences on the learner. Emphasis is given to intervention strategies for counseling the culturally diverse. Prerequisites: EPSY 6361, EPSY 6362 and EPSY 6390.

EPSY 6392 Counseling Practicum III [3-0]

This course is field-based and designed to provide continued opportunity for practice in counseling to meet licensure requirements. Individualized supervision focuses on developing advanced counseling skills while working with a variety of populations. One hundred fifty clock hours of direct and indirect contact is required (maximum of 80 direct and maximum of 70 indirect).

Prerequisites: EPSY 6368 and EPSY 6369.

EPSY 6393 Marriage and Family Counseling [3-0]

A foundation course in family counseling theory, technique and process that is intended for the advanced student.

Includes an understanding of the nature and needs of the family at various developmental stages and a historical perspective of its changing role in society.

EPSY 7302 Practicum in Educational Diagnostician I

This course is the first of two field-based courses designed to give students the opportunity to engage in the full psycho educational evaluation process through practical university and field-based experiences. Course must be taken within the last year of the program.
Prerequisite: EPSY 6381.

EPSY 7303 Practicum in Educational Diagnostician II

This course is the second of two field-based courses designed to give students the opportunity to engage in the full psycho educational evaluation process through practical university and field-based experiences. Course must be taken within the last year of the program.
Prerequisite: EPSY 7302.

EPSY 7308 Child and Adolescent Therapy Practicum
spring

This course provides students with experience providing psychological intervention services to young children and adolescents. Students will receive instruction and supervision in a clinical setting.
Prerequisite: EPSY 6310, 6301, 7352 and consent of the instructor.

EPSY 7310 Advanced School Psychology Research Project

fall, spring, summer
This is a student non-thesis option for fulfillment of the requirements of the School Psychology Program. The student will complete a research project under the direction of a graduate faculty member.
Prerequisite: EPSY 6350, 6358, 6370.

EPSY 7350 Internship I
fall, spring

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.

EPSY 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.

EPSY 7352 Psychotherapy for Children and Adolescents [3-0]

summer
This course focuses on Psychotherapeutic interventions for children and adolescents.
Prerequisites: PSY 6310 and PSY 6330

EPSY 7353 Psychodynamic Play Therapy

This course includes the psychodynamic methods of play therapy and related family systems interventions. Practices required.
Prerequisites: EPSY 6310, EPSY 6301, EPSY 7352, and consent of the instructor. This course may be repeated once for credit.

EPSY 7602 Applied Research Project

A problem-oriented, individual research project under the direction and supervision of a graduate faculty member that fulfills the requirements for the non-thesis option in the Master of Gifted Education, Special Education and School Psychology Programs.

Finance

FINA 6303 Introduction to Finance [3-0]

fall, spring, summer
This course introduces fundamental concepts of financial tools and analysis for making effective managerial decisions. Topics include the role of the financial manager in the organization, decisions affecting the internal management of the firm, financial statement analysis, and operational planning and budgeting.
Prerequisite: Admission to the MBA Program.

FINA 6340 Financial Administration [3-0]

fall, spring, summer
This course covers the management of the flow of funds in the firm. Topics include the optimal utilization of funds, and the behavior of financial institutions and markets.
Prerequisite: FINA 6303 or FINA 3383 or equivalent

FINA 6341 Financial Management Seminar [3-0]

as scheduled
This course covers the responsibilities of the financial manager as these relate to working capital management, capital budgeting and the determinates of the firm's cost of capital.
Prerequisite: Twelve hours of graduate business courses.

FINA 6342 Financial Topics Seminar [3-0]

as scheduled
This course is a survey of selected topics in finance. This course may be repeated for credit.
Prerequisite: Twelve hours of graduate business courses.

FINA 8341 Seminar in Finance Topics [3-0]
as scheduled

Selected topics in finance 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.

FINA 8350 Math for Finance [3-0]

as scheduled

This course introduces the mathematical concepts necessary for pursuing microeconomic theory at the Ph.D. level. Theory and application of linear algebra and constrained optimization.

FINA 8360 Theory of Finance [3-0]

as scheduled

This course entails a rigorous development of the fundamental theories within the field of finance. Topics include utility theory, decision-making under uncertainty, information and capital market efficiency, agency theory and dividend policy.

FINA 8365 Theory of Investments [3-0]

as scheduled

This course covers issues in investment analysis. The first part of the class is devoted to asset pricing theories beginning with Markowitz Portfolio Analysis and moving on to the Capital Asset Pricing Model, the Arbitrage Pricing Theory and the Fama-French Three-Factor Model. The course then delves into current issues related to investment analysis focusing on market efficiency and over-reaction under-reaction phenomena. The last part of the course explores derivative pricing theories.

FINA 8370 International Finance Management [3-0]

as scheduled

This course covers international monetary environments and institutions; determinants of foreign exchange rates and risk management; foreign investment analysis.

FINA 8375 Corporate Finance [3-0]

as scheduled

Financial theory applied to capital structure; investment decisions; corporate valuation; and corporate financial policies.

FINA 8380 Financial Markets and Institutions [3-0]

as scheduled

This course will provide students with an understanding of the mechanisms of various financial markets. It aims to develop a critical awareness of the theoretical and practical problems associated with regulating financial markets. The course will investigate how the market structures potentially cause and mitigate financial risk to market participants and end users. Also financial scandals and crises will be reviewed.

French

FREN 5321 French and Francophone Literature [3-0]

as scheduled

This course will study topics and masterpieces in French and/or Francophone (French-speaking countries) literature. The course may be taken three times as the topic varies. Prerequisites: Graduate standing and a minimum of 12 advanced hours in French.

FREN 6321 French Critical Theory [3-0]

fall, spring, summer

This course Introduces students to the "French Theory", school of literary criticism and analytic devices of texts. This course may be taken one time. Prerequisites: Graduate standing and a minimum of 12 hours of advanced courses in French.

FREN 6322 Literature Courses for Advanced Placement Preparation [3-0]

as scheduled

This course will follow the AP program requirement. It consists of graduate level literature courses. It is offered to school teachers who prepare their students for the AP exam. This course may be repeated up to two times. Prerequisites: Graduate standing and a minimum of 12 hours of advanced courses in French.

Geology

GEOL 5301 Geology and Geography

as scheduled

Geology and Geography is an integrated course focusing on physical geology and physical geography. It explores the diverse processes that continuously shape our planet. Develops an understanding of earth materials, how the earth works, the causes of natural disasters, the importance of geologic time, the fundamentals of geography. Topics include minerals, rocks, volcanoes, radioactive dating, earthquakes, plate tectonics, rivers and floods, groundwater resources, deserts, glaciers, the nature of maps, map projections, global positioning system, geographic information systems and fundamental aspects of remote sensing. Prerequisites: Consent of instructor.

GEOL 6302 Meteorology and Oceanography

as scheduled

This is a course in the behavior of the atmosphere and ocean, and the linkages between them. The first part of the course will discuss the physics behind the behavior of the atmosphere and how the resulting differences in temperature and pressure give rise to the global wind and weather patterns observed. The second part will cover how wind drives ocean current circulation and waves, the origin

of astronomical tides and how the physical and geological conditions in the ocean influence life. Special attention will be paid to the role of the ocean and atmosphere in global change.

GEOL 6410 Geoscience for Teachers

as scheduled

This course is specifically designed to provide a broad intensive overview of the GMO (geology, meteorology and oceanography) subject areas for practicing teachers. It consists of a series of class and laboratory-based modules that will enable teachers to effectively implement GMO sections into their existing curriculum. This course follows an inquiry-based approach based on understanding and using the scientific method, data collection and analysis as appropriate for each of the three modules. Meteorology introduces the teachers to atmosphere, weather and climate systems; oceanography covers global oceans, coastal systems and the effects of human impact; while the geology module provides overviews of the history of geology, basic rocks and minerals, fossils, geomorphology, plate tectonics and geologic hazards such as earthquakes and volcanoes.

Global Security Studies and Leadership

GSSL 5300 Global Security Studies and Leadership

[3-0]

fall, spring

This course examines the origins of security and intelligence studies as an academic discipline and in relationship to a democratic society. The impact of security and intelligence on policy, controversies concerning security and intelligence, and the need for reform will also be covered. Graduate students will be required to attend at least four GSSL speaking events and submit analyses of each presentation using method and theory specific to the class.

GSSL 5305 Open Source Research

[3-0]

fall, spring, summer

This course provides students with the knowledge and skills needed to conduct research using publicly available information appearing in print or electronic form including the Internet, radio, television, newspapers, journals, commercial databases, and videos, graphics, and specialized publications, citizens media, and social media. Students learn advanced Internet research strategies, methods, and approaches for using foreign source research. Students develop fluency in available resources for open source research, including networks, commercial and government databases, academic resources, translation services, and analytical software and research tools.

GSSL 5310 Interdisciplinary Research in Business and Science/Engineering

[3-0]

fall, spring

This course covers data mining, database, open source research techniques applicable in business, science, and engineering. Students will consider dilemmas that arise in formulating business and/or science-based security policy, such as transparency, ethics, and conflicts of interest. Graduate students will be required to attend at least four GSSL speaking events and submit analyses of each presentation using method and theory specific to the class. Prerequisite: GSSL 5300

GSSL 5320 Interdisciplinary Research in Social Sciences and Health Sciences

[3-0]

fall, spring

This course provides basic knowledge and skills needed to undertake research-based problem solving in social and health sciences. It covers basic social and behavioral research concepts with a focus on electronic research using the Internet, GIS, and other electronic media. Students will also consider research ethics, transparency, and conflicts of interest. Graduate students will be required to attend at least four GSSL speaking events and submit analyses of each presentation using method and theory specific to the class. Prerequisite: GSSL 5300

GSSL 5330 Practicum in Global Security Studies and Leadership

[3-0]

fall, spring

This course integrates the broad and specialty knowledge covered in the interdisciplinary courses and the preceding core courses by working in teams to an applied case problem involving a current security issue. The course culminates in an event attended by invited guests from the faculty administration and working professionals, at which each group will present case outcomes. Graduate students will be required to attend at least four GSSL speaking events and submit analyses of each presentation using method and theory specific to the class.

Prerequisite: GSSL 5310 or GSSL 5320

GSSL 5397 Internship in Global Security Studies and Leadership

[3-0]

fall, spring, summer

The practical national security experience through an arranged internship in a government agency for one semester. The student will work with a participating employer under the supervision of a graduate faculty member. Periodic seminars and supervisor-intern consultations will be held with a required final administrative report

Prerequisite: Consent of instructor and faculty advisor.

GSSL 5398 Independent Study in Global Security Studies and Leadership

[3-0]

fall, spring, summer

Individualized study and research in a substantive area are not normally covered within standard courses. The student will study under the direct supervision of a faculty member. Research projects or advanced readings will vary according

to student interest and faculty availability.
Prerequisite: Consent of instructor.

GSSL 5399 Special Topics in Global Security Studies and Leadership [3-0]

fall, spring, summer

This course covers special topics in graduate level security studies that are not taught elsewhere in the department. May be repeated for credit when topic varies.

Prerequisite: Consent of instructor and faculty advisor.

History

HIST 5343 Directed Readings in U.S. History [3-0]

as scheduled

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 as topic changes.

HIST 5345 Directed Readings in Latin American History [3-0]

as scheduled

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 as topic changes.

HIST 5363 Directed Readings in Borderlands History [3-0]

as scheduled

A directed study of selected topics in Borderlands history. Topics are varied according to availability of faculty and student interest. Course can be repeated as topic changes.

HIST 5373 Directed Readings in Comparative History [3-0]

as scheduled

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 as topic changes.

HIST 5383 Directed Readings in European History [3-0]

as scheduled

A directed study of selected topics in European history. Topics are varied according to availability of faculty and student interest. Course can be repeated as topic changes.

HIST 6300 Historiography and Historical Method [3-0]

as scheduled

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 program.)

HIST 6301 Seminar and Problems Study in Eras in American History to 1860 [3-0]

as scheduled

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 6302 Research Practicum in History [3-0]

fall, spring

This course provides students with practical research experience under the supervision of a graduate faculty member. Faculty will work with students to develop bibliographies, gather and organize data, review primary sources, and check citations.

HIST 6303 Seminar and Problems Study in Eras in American History Since 1860 [3-0]

as scheduled

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 6306 Studies in Texas and Southwestern History [3-0]

as scheduled

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 [3-0]

as scheduled

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 [3-0]

as scheduled

An investigation and critique of the problems and contributions made by Mexico and 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 [3-0]

as scheduled

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 [3-0]

as scheduled

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.

International Business

INTB 6304 International Business Foundations [3-0]

as scheduled

Course covers the foundation of the marketing and management disciplines in an international context. The course will use a graduate-level international business text as the core text, with special emphasis on material covering management and marketing issues. Supplemental readings will be required and will be from international marketing and international management literature.

Prerequisite: Admission to MBA degree program.

INTB 6350 Topics in International Business [3-0]

fall, spring, summer

This course will train students in various areas pertaining to international business that are not addressed in regularly scheduled MBA classes, such as international business ethics, international services, globalization in business etc. The course may be repeated for credit when the topic varies.

Prerequisite: Graduate Student Standing

INTB 8300 The Academic Experience [3-0]

as scheduled

Course intended to increase understanding of the academic career, including dissertation preparation, research strategies tenure and promotion, and administrative positions.

INTB 8340 Seminar in International Financial Management [3-0]

as scheduled

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 8350 Seminar in International Economics [3-0]

as scheduled

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 8360 Seminar in Regional Business [3-0]

as scheduled

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. The seminar may be repeated for credit when a different region is covered.

INTB 8369 Seminar in International Business Issues [3-0]

as scheduled

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 trademark 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 8370 Seminar in International Marketing Strategy [3-0]

as scheduled

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 8399 International Business Internship

as scheduled

This is a credit course required of all doctoral students. It must be taken during the classroom 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 an international university that requires cross-cultural teaching or research activities. Internships may be paid or unpaid. The college will assist students in securing internships, but the student is responsible for ensuring that the internship is completed before the end of coursework.

Information Systems & Quantitative Methods

ISQM 8310 Applied Multivariate Data Analysis I [3-0]

as scheduled

Multivariate statistical topics: heuristic review of univariate and bivariate statistical analysis, data examination to include missing data, outliers and assumptions of multivariate analysis, multiple regression analysis, discriminate analysis, logistic regression, multivariate analysis of variance and factor analysis. Computer applications using appropriate statistical software packages will be presented, discussed and analyzed. Critical analysis of published research using these techniques will be performed.

Prerequisite: QUMT 6303 or the equivalent.

ISQM 8311 Applied Multivariate Data Analysis II [3-0]

as scheduled

Multivariate statistical topics: Canonical correlation analysis, cluster analysis, scaling to include reliability and multidimensional scaling, conjoint analysis, structural equation modeling and emerging techniques in multivariate analysis. Computer applications using appropriate statistical software packages will be presented, discussed and analyzed. Critical analysis of published research using these techniques will be performed.

Prerequisite: ISQM 8310.

ISQM 8312 Seminar in Behavioral Science Research Methods [3-0]

as scheduled

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 8310.

ISQM 8313 Seminar in Econometrics I [3-0]

as scheduled

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 8310.

ISQM 8314 Seminar in Cross-Cultural Research Methodology [3-0]

as scheduled

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 8312.

ISQM 8315 Seminar in Econometrics II [3-0]

as scheduled

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: ISQM 8312.

ISQM 8319 Seminar in Business Research and Applications [3-0]

as scheduled

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: Nine hours of the international core courses, plus ISQM 8314 or ISQM 8315.

ISQM 8330 Information Technology Concepts and Research Methods [3-0]

as scheduled

This seminar introduces doctoral students to fundamental concepts and methods in information technology research. Students will get exposure to behavioral and technical research that covers a wide range of topics such as the system concepts, the productivity paradox on information technology investment, the technology acceptance model and information systems design methodologies.

Kinesiology

KIN 5313 Workshop in Kinesiology [3-0]

as scheduled

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 six hours, when the topic is different.

Prerequisite: Twelve hours of graduate Kinesiology and permission of the department chair.

KIN 5351 Kinesiology Curriculum for the Handicapped Student [3-0]

as scheduled

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.
Prerequisite: Permission of the department chair.

KIN 5357 Health Seminar [3-0]

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 [3-0]

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 [3-0]

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 [3-0]

spring, odd years

A critical consideration of the importance and limitations of measurements in physical education. Emphasis is placed on those measurements that are most needed today. The statistical treatment and interpretation of research data.

KIN 6304 Scientific Foundations of Kinesiology [3-0]

fall, even years

Background of kinesiology from biological, anatomical and physiological aspects.

KIN 6305 Curriculum Construction in Kinesiology [3-0]

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 [3-0]

spring, even years

Principles, terminology and standards for planning construction, use and maintenance of facilities.

KIN 6307 Psychology of Motor Learning [3-0]

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 6310 Organization and Administration of Sport Programs [3-0]

as scheduled

The organization and administration of major and minor sport programs including budgeting, staffing, equipment and public relations.

KIN 6311 Legal Issues in Sport [3-0]

as scheduled

The application of legal issues in the sport industry with primary concentration on tort liability for sport administrators and teachers/coaches, gender issues, and contract law.

KIN 6312 Governing Agencies for Sport [3-0]

as scheduled

An in-depth study of governance agencies concerned with interscholastic, intercollegiate, amateur, international and professional organizations.

KIN 6313 Ethics in Sport [3-0]

as scheduled

A study of ethical issues in sport related to the player, coach, parent, officials and administration associated with sport/athletic organizations.

KIN 6319 Internship in Sport [3-0]

as scheduled

The student is to perform an internship under the supervision of a mentor with an organization and a university supervisor. A minimum of 120 contact hours is required.

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.

Prerequisite: Permission of the department chair.

KIN 6321 Kinesiology Internship [3-0]

fall, spring

This is an on-site internship in a public school setting focusing on the psychomotor, cognitive, and effective development of children. The student will select a site (elementary, middle, or secondary public school) and secure employment. Repeat for credit once.

Prerequisite: 12 graduate hours (C or better) in the Graduate Teacher Education and Certification (G-TEC).

KIN 6330 Issues in Adapted Physical Activity [3-0]

as scheduled

Analysis and evaluation of contemporary issues, trends, and research findings pertinent to adapted physical activity for students with disabilities.

KIN 6331 Including Students with Disabilities in Regular Physical Education

as scheduled

Analysis concepts related to inclusion and utilizes the ecological philosophy to discuss the methods and strategies in implementing an inclusive physical education program.

KIN 6332 Special Techniques of Motor Assessment for Individuals with Disabilities [3-0]

as scheduled

Provides students with information about instruments to assess students with disabilities in adapted physical education settings.

KIN 6333 Adapted Sports and Activities for Individuals with Disabilities [3-0]

as scheduled

Explores the concerns and benefits of exercise participation in special populations.

KIN 6340 Advanced Biomechanics [3-0]

spring

Introduction to research and application in biomechanics which includes the mechanical components of human movement and the analysis of movement problem. Emphasis is on quantitative techniques of sport and exercise activities analysis. Other technologies and bibliographic research methods are covered.

Prerequisites: BIOL 2403, BIOL 2404, KIN 3345, and KIN 3365 or equivalent courses. Admission to department graduate program for majors and to the University graduate program for non-majors.

KIN 6350 Sport and Exercise Psychology [3-0]

spring

This course examines sport and exercise behavior with a life-span perspective. Factors relating to exercise and sport participation and adherence within each developmental stage will be studied. Relevant theoretical models and empirical research will be discussed to understand sport and exercise behavior correlates and determinants.

Prerequisites: Entrance into kinesiology graduate program.

KIN 7300 Thesis

Scheduled by chair.

KIN 7301 Thesis

Scheduled by chair.

Course descriptions are available at
<http://www.telecampus.utsystem.edu>

Masters of Accountancy

MACC 6310 Auditing

A study of selected auditing standards with an emphasis on new topics in auditing. Included are such topics as statistical sampling, auditing effects of EDP, internal auditing functions, operational auditing and work paper techniques. Prerequisite: ACC 3327 or equivalent.

MACC 6320 Tax Topics

Current topics in the operation of the federal tax system are examined. Topics may include federal taxation of international transactions, reorganizations, consolidated tax returns, estates, gifts, trusts, and an introduction to tax planning. Prerequisite: ACC 3323 or equivalent.

MACC 6330 Accounting Theory

An examination of accounting theories arising during the 20th century and their effect on the evolution of GAAP. New issues arising in accounting practice that create theoretical issues will be discussed. Prerequisite: ACC 3322 or equivalent.

MACC 6333 Business Law for Accountants

An in-depth study of issues of business law relevant to the accounting profession including negotiable instruments, banking, secured transactions, creditor's rights and bankruptcy, forms of business organizations, corporate financing, corporate liability and investor protection. Ethical considerations and international considerations are included throughout the course. Prerequisite: BLAW 3337 or equivalent.

MACC 6340 Managerial Accounting

A study of advanced cost and managerial topics with an overview of contemporary issues in management accounting. Prerequisite: ACC 3320 or equivalent.

MACC 6350 Information Technology for Accounting & Control

An extensive examination of technology and audit tools such as statistical sampling, audit software, and data mining techniques as pertaining to auditing and an examination of a company's accounting and control systems. Prerequisite: ACC 3326 or equivalent.

MACC 6360 Tax Research Methodology

A study of authoritative tax law sources, tax research methodology, and research documentation and reporting is combined with actual research using typical tax problems. Prerequisite: ACC 3323 or equivalent.

MACC 6370 Internal Auditing and Assurance Services

This course is designed to introduce students to principles, techniques, and standards of internal auditing, which extends beyond the traditional attestation of financial statements. The course emphasizes assessment of business risk, internal control systems, the role of internal auditing

in risk management, and management auditing: compliance, operational, performance and value for money.

Prerequisite: ACC 3327 or equivalent.

MACC 6380 Professional Ethics

The Ethics of Certified Public Accountants, Certified Management Accountants, Certified Internal Auditors, Certified Fraud Examiners as well as those of other professional associations are examined. Consideration is also given to how corporate ethical codes of conduct function in corporate governance and as a matter of law. Decision-making within the framework of professional standards is discussed.

Prerequisite: ACC 3327 and ACC 3322.

MFIN 6316 Financial Management

A study of the courses providing a firm with operating funds and the effective utilization of monetary resources is undertaken with an emphasis on financial decision-making within the organization.

Prerequisite: FINA 3383 or equivalent.

Management

MANA 6330 Organizational Behavior [3-0]

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.

Prerequisite: INTB 6304 or MANA 3361.

MANA 6331 Human Resource Management [3-0]

as scheduled

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.

MANA 6332 Management Seminar [3-0]

This course is designed to provide a broad overview of leadership and organizational change theories, practices and research. Special attention will be given to critical thinking skills and the students' ability to communicate and lead effectively in the discussion chat room format.

MANA 6334 International Management [3-0]

as scheduled

This course covers effects of the international environment on the management of business. The effects of social, cultural, political, legal and economic environments on strategic planning and decision-making are covered in this course.

MANA 6360 Production and Operations Management [3-0]

The study of the role of the production function in the business system and its relationship to marketing and

finance. The focus is on the decision-making necessary for productivity improvement in the transformation process of manufacturing and non-manufacturing service organizations. Strategies of production system design, capacity management, quality management; production planning, inventory planning and control, facility location and supply chain management are explored. Systems studies include Just-in-Time, Total Quality Management and Flexible Manufacturing Systems.

Prerequisite: INTB 6304 or MANA 3361.

MANA 6390 Strategic Management [3-0]

as scheduled

This capstone course integrates knowledge in functional areas and covers strategy formulation, implementation and evaluation. Different types of organizations in all kinds of environments and industries are studied. Technology, culture and ethics are important environmental variables considered. Prerequisite: Eighteen hours of MBA core courses. ACC 6320, MANA 6330, FINA 6340, ECON 6350, MANA 6360 and MARK 6370.

MANA 7300 Thesis

as scheduled

Research and writing of the thesis. This course may be repeated for credit.

MANA 8331 Seminar in Management Topics [3-0]

as scheduled

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 submission to academic conferences or journals. Course may be repeated for credit with different topics.

Manufacturing Engineering

MANE 6190 Engineering Project [0-1]

as scheduled

Special construction projects, research activities or supervised engineering studies. May be repeated for credit.

Prerequisite: Consent of instructor.

MANE 6290 Engineering Project [0-2]

as scheduled

Special construction projects, research activities or supervised engineering studies. May be repeated for credit.

Prerequisite: Consent of instructor.

MANE 6301 Introduction to Manufacturing Engineering I [3-0]

as scheduled

This course provides material that is prerequisite to graduate

level courses in Engineering Management and Manufacturing Engineering. It covers material that is introductory to industrial engineering statistics. Because this course contains prerequisite material, it can not be included on a degree plan for credit to a MSE in Manufacturing Engineering or MS in Engineering Management.

Prerequisite: Graduate student standing

MANE 6302 Introduction to Manufacturing Engineering II [3-0]

as scheduled

This course provides material that is prerequisite to graduate level courses in Engineering Management and Manufacturing Engineering. It covers material that is introductory to industrial engineering statistics. Because this course contains prerequisite material, it can not be included on a degree plan for credit to a MSE in Manufacturing Engineering or MS in Engineering Management.

Prerequisite: Graduate student standing

MANE 6303 Concepts in Engineering Analysis [3-0]

as scheduled

Limits, derivatives and applications, integrals and applications, methods of integration, vectors, partial derivatives, ordinary differential equations and applications.

Prerequisite: Consent of instructor.

MANE 6304 Industrial Cost Analysis [3-0]

as scheduled

This course provides a background in quantitative techniques in Engineering Management with emphasis on industrial cost analysis models and techniques. Financial models and methods are discussed with emphasis on capital budgeting and topics related to advanced engineering economics.

Valuation and reporting methods are reviewed. Basic costing practices are discussed along with cost modeling and control methods.

Prerequisite: MANE 3337 or MANE 6302

MANE 6311 Advanced Quality Control [3-0]

fall

Deming continuous improvements concepts, Q.C. 7-tools, basic problem solving procedures, control chart practice and applications, design of experiments and Taguchi methods. ISO 9000 and TQM will be introduced.

Prerequisite: MANE 3332.

MANE 6313 Design of Experiments [3-0]

fall

Randomization and blocking, significance tests and confidence intervals, factorial designs, applications of factorial designs, model building with least squares, response surface methods.

Prerequisite: MANE 3332.

MANE 6315 Reliability Engineering [3-0]

spring

System level reliability, redundancy, maintainability, availability analysis and modeling, life testing, acceleration, parametric, and non-parametric models.

Prerequisite: MANE 3332.

MANE 6319 Quality Management Systems [3-0]

as scheduled

Introduces philosophies, tools and methodologies of TQM, quality systems (ISO 9000, ISO 14000, 6-sigma), bench marking, quality function deployment, Taguchi method, Failure Mode and Effect Analysis (FMEA) and management tools. Prerequisite: Consent of instructor.

MANE 6321 Robotics and Automation [3-0]

as scheduled

Application of industrial robots and their role in industrial systems. Relationships among product design process control, robot kinematics and flexible automation are covered.

Prerequisite: MANE 3302 or equivalent.

MANE 6323 Advanced Computer-Aided Design [3-0]

fall

Theory and applications of computer-aided design in engineering. Design of engineering parts using parametric solid modeling software. Automated drafting and dimensioning, geometric tolerancing.

Prerequisite: MANE 3300 or equivalent.

MANE 6328 Dynamic Systems Modeling and Forecasting [3-0]

as scheduled

System identification using time series, Green's function and stability analysis, forecasting, multiple series and applications for on-line manufacturing process control.

Prerequisite: MANE 3332.

MANE 6331 Advanced Manufacturing Planning and Control [3-0]

spring

Forecasting, aggregate planning, inventory control, pull and push production systems, operations and project scheduling and recent advances in operations planning and control.

Prerequisite: MANE 3364 or equivalent.

MANE 6340 Operations Research and Analysis [3-0]

as scheduled

Concepts in mathematical modeling, stochastic processes, queuing theory, linear programming, integer programming, dynamic programming, non-linear programming, and inventory models.

Prerequisite: Consent of instructor.

MANE 6341 Advanced Operations Research and Analysis [3-0]

spring

Concepts in mathematical modeling, stochastic processes, queuing theory, dynamic programming and non-linear programming.

Prerequisite: MANE 6340.

MANE 6342 Engineering Decision Support Systems [3-0]

fall

Engineering decision-making, sequential decision procedures, design of engineering systems, knowledge acquisition and representation, hybrid systems and engineering applications.

Prerequisite: Consent of instructor.

MANE 6343 Queueing Models for Manufacturing Systems [3-0]

as scheduled

This is a course on the application of stochastic models and Queueing theory in design and control of manufacturing systems. We will start from review of elementary probability theory; we will then cover conditional expectation; the Poisson process; renewal theory; Markov chains; and queueing theory. Emphasis will be given to Queueing models and their application in manufacturing systems, transportation and stocking systems, and other types of service delivery systems. Student will be able to apply Queueing models in the design of these systems, and other types of service delivery systems. Student will be able to apply queueing models in the design of these systems in terms of layout, capacities and control.

Prerequisite: MANE 2332

MANE 6345 Engineering Management [3-0]

Fundamental principles of planning, estimating, budgeting, scheduling, implementation, evaluation and controlling engineering and research projects. Common engineering management concerns such as labor scheduling, human resources management and related governmental compliance also explored. Prerequisite: Consent of instructor.

MANE 6346 Polymer Engineering [3-0]

spring

Study of engineering properties of polymer materials and selection of polymers for use in engineering applications. Manufacturing properties of polymer materials and their effects on manufacturing processes.

Prerequisite: MANE 3364 or equivalent.

MANE 6347 Facilities Layout [3-0]

spring

An analytical approach to the planning and design of manufacturing facilities and material handling systems.

Prerequisite: Consent of instructor.

MANE 6348 Systems Engineering [3-0]

as scheduled

Systems Engineering covers translation of customer needs into product requirements, management of the interface, and interaction of systems and subsystems. It also includes coordination of design reviews, analysis of alternatives, consideration of component testing and verification, within cost and schedule constraints. Additional issues include the

interface with the human user, system reliability, logistic support, and system safety. This course discusses tools that help the Systems Engineer to complete complex projects with success.

Prerequisite: Consent of the instructor.

MANE 6349 Advanced Work Science [3-0]

spring
Design methods for work and work systems; scientific and engineering basis of work and its analysis.

Prerequisite: Consent of instructor.

MANE 6350 Flexible Integrated Manufacturing [3-0]

as scheduled
Application of industrial programmable logic controllers, machine vision system, selection of tools for robot end effector, sensor technology, machine-human systems such as expert system and flexible automation system design.

Prerequisite: MANE 3302 or MANE 6401.

MANE 6352 Simulation of Manufacturing Systems [3-0]

fall

Simulation and modeling of discrete-event systems, input data analysis, model development, model verification, validation, output analysis and applications to manufacturing.

Prerequisite: MANE 3332.

MANE 6354 Advanced Engineering Economy [3-0]

fall

Advanced techniques of engineering economic analysis; evaluation of alternative capital investments considering income taxes, depreciation and inflation; discounted cash flow analysis of competing projects, break-even analysis and determination of rate of return on investment, risk and uncertainty in engineering analysis.

Prerequisite: MANE 3337.

MANE 6357 Ergonomics [3-0]

fall

Functional anatomy and physiology of musculo-skeletal system and their applications in work design. Work physiology, manual materials handling, hand tools, and repetitive motions.

Prerequisite: Consent of instructor.

MANE 6364 Advanced Manufacturing Processes [3-0]

as scheduled

The objective of this course is to obtain an understanding of some of the manufacturing processes used in industry today and to become familiar with some of the recent advances that have been made. This course focuses on specific manufacturing processes including heat treatment, metal forming, metal cutting, non-traditional processes, rapid prototyping and electronics manufacturing. The physical principles underlying the manufacturing processes are discussed and analyses of the process are conducted.

Prerequisite: MANE 3364 or consent of the instructor.

MANE 6365 Tool Design and Analysis [3-0]
as scheduled

Fundamentals of different areas of tools used in manufacturing. Tool making, tool materials, cutting tools, locating and clamping, jigs and fixtures. Design of fixtures for numerical control machines and modular fixturing.
Prerequisite: MANE 6323.

MANE 6368 Logistics Engineering [3-0]
as scheduled

Analysis of integration of support functions in the development, operations and maintenance of complex engine systems.
Prerequisite: Consent of instructor.

MANE 6369 Mold Design and Analysis [3-0]
as scheduled

Design of injection molding molds, mold components and design of parts for effective injection molding. Analysis of mold filling, fluid flow, mold temperature, residual stresses and other factors that affect the quality of mold.
Prerequisite: MANE 6323.

MANE 6372 Advanced Engineering Analysis [3-0]
as scheduled

Use of mathematical techniques to model and analyze problems encountered in engineering. Topics include linear algebra, ordinary differential equations, numerical methods and optimization techniques.
Prerequisite: MANE 6303 or consent of instructor.

MANE 6375 Human Factors [3-0]
as scheduled

Methods of measurement of human performance, psychological and physiological background of human information processing, principles and techniques of display and information system design, human error and reliability.
Prerequisite: Consent of instructor.

MANE 6380 Engineering Project Management [3-0]
as scheduled

Planning, scheduling and control of engineering projects, network models, CPM, PERT, resource allocation and time-cost tradeoff.
Prerequisite: Consent of instructor.

MANE 6383 Analysis of Polymer Systems [3-0]
as scheduled

This course is intended for manufacturing engineers requiring an introduction to the experimental chemistry of plastics with experimental and measurement techniques and the interpretation and representation of the results. The operation principles of various analytical equipment and applications are discussed.
Prerequisite: MECE 2440 and MANE 3364

MANE 6384 Polymer Structures, Properties, and

Applications [3-0]

as scheduled

This is an intermediate to advanced course in the relationship between polymer structure, properties, and applications that are of importance to manufacturing engineers working in the various manufacturing environment from automobile to aerospace industry. The difference in properties of various plastics and their structure is discussed.
Prerequisite: MECE 2440 and MANE 3364

MANE 6385 Plastics Product Design and Engineering [3-0]
as scheduled

This is an intermediate course in the plastics product design for injection molding process that is widely used to make from consumer product to aerospace application. The design principles and use of plastics to achieve competitive design of plastic parts is discussed.
Prerequisite: MECE 2440 and MANE 3364

MANE 6390 Engineering Project [0-3]
as scheduled

Special construction projects, research activities or supervised engineering studies. May be repeated for credit.
Prerequisite: Consent of instructor.

MANE 6399 Topics in Manufacturing Engineering [3-0]
as scheduled

Topics selected from current issues of concern in manufacturing industries. May be repeated for credit when topics change.
Prerequisite: Consent of instructor.

MANE 6401 Concepts in Manufacturing [3-1]
as scheduled

Manufacturing processes including metal cutting, nontraditional machining, force analysis, casting, deformation and joining processes, plastics, composites, manufacturing of ceramics and electronics devices, numerical control programming and application of programmable logic controller.
Prerequisite: Consent of instructor.

MANE 7300 Thesis

MANE 7301 Thesis

Marketing

MARK 6370 Marketing Policy and Management [3-0]
as scheduled

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: INTB 6304 or MARK 3371.

MARK 6371 Marketing Seminar [3-0]
as scheduled

A study of historical and current thought in marketing theory and practice. This course has variable content and course may be repeated for credit.

MARK 6373 Global Consumer Behavior [3-0]
as scheduled

The consumption process is key to understanding motivation, perception and decision making of consumers around the world. This course examines psychological, cultural, social and contextual influences on the consumption process and equips students with tools useful for increasing customer satisfaction.

MARK 6374 E-Commerce: Doing Business in the Digital World [3-0]
as scheduled

This course provides students with an introduction to the concepts of e-business as an integrated component of a firm's marketing strategy. It includes discussion of a range of topics as well as concepts of e-business sites, design and promotion to complete comprehensive marketing strategies for today's firm.

Prerequisite: MARK 6370.

MARK 8310 International Marketing Strategy [3-0]
as scheduled

The seminar will familiarize students with several recurring international business/marketing research issues with major emphasis on the development of strategic thought in marketing for students to appreciate how research streams have developed over the years. Central topics include the scope of international marketing strategy, the internationalization of specific marketing strategies (starting with the 4P's) and the interface between international marketing and other business functions.

MARK 8311 Global Consumer Behavior [3-0]
as scheduled

This seminar brings social science concepts, principles and theories to the study of factors that influence the acquisition, consumption and disposition of products, services and ideas with contributions from social and psychological sciences which inform the discussion of consumer behavior, which is global in nature.

MARK 8312 Marketing Theory [3-0]
as scheduled

This seminar is about rethinking marketing and the theories and debates that have dominated its discourses. Meaning of theory, criteria for assessing the strengths and weaknesses of theories in marketing, their positive and negative contributions to society and humanity and the potentials and challenges to the futures of marketing will be explored.

MARK 8313 Qualitative Research Methods [3-0]
as scheduled

The seminar is designed to help familiarize students with the historical and theoretical foundations of qualitative research methods, to develop the ability to evaluate research employing qualitative methods and to acquire skills in conducting qualitative research in marketing and management settings. Issues related to the reliability and validity of qualitative research findings and qualitative analyses will be addressed.

MARK 8314 Markets and Globalization [3-0]
as scheduled

Through the study of recent theories of globalization, this seminar will explore the role of markets and consumers in this phenomenon, the effects of globalization on the structures of markets and the formation of new markets around the world and the effects of marketing on globalization streams for an historical understanding of the phenomenon as well as its contemporary nature.

MARK 8315 Global Services Marketing [3-0]
as scheduled

This seminar is designed to develop an in-depth understanding and knowledge of services marketing and relevant theories, to improve skills in reading the academic literature in services for thorough understanding, interpretation, critical evaluation and relevancy to the discipline and to improve abilities to develop and implement services-related research.

MARK 8320 Philosophy of Science Seminar [3-0]
as scheduled

This seminar will introduce academic research fundamentals to doctoral students and prepare them for the follow-up tasks of reviewing published research and writing research papers by exploring the various philosophies of science used in research. In addition, this seminar will help doctoral students prepare for their dissertation tasks and future publications.

MARK 8371 Seminar in Marketing Topics [3-0]
as scheduled

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.

MARK 8372 Marketing Issues Seminar [3-0]
as scheduled

Examination of studied issues involved with current literature and current research interest of faculty and students. Seminar may be repeated with different topics.

Mathematics

MATH 6308 Teaching of Algebraic Concepts [3-0]

as scheduled

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 [3-0]

as scheduled

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 [3-0]

as scheduled

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 equivalent, model of geometric understanding. Prerequisite: MATH 3304 or consent of instructor.

MATH 6328 Special Problems in Teaching Mathematics [3-0]

as scheduled

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 6330 Linear Algebra [3-0]

as scheduled

Topics include the proof-based theory of matrices, determinants, vector spaces, linear spaces, linear transformations and their matrix representations, linear systems, linear operators, eigenvalues and eigenvectors, invariant subspaces of operators, spectral decompositions, functions of operators and applications to science, industry and business.

Prerequisite: MATH 2345 Elementary Linear Algebra.

MATH 6331 Algebra I [3-0]

as scheduled

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 MATH 6401.

MATH 6332 Algebra II [3-0]

as scheduled

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 6331.

MATH 6337 Advanced Number Theory [3-0]

Topics include the Mobius Inversion Formula, primitive roots, quadratic reciprocity, continued fractions, nonlinear Diophantine equations, sums of squares and primality testing.

Prerequisite: MATH 4351 or MATH 6401 with a grade of C or better.

MATH 6352 Analysis I [3-0]

as scheduled

The purpose of this course is to provide the necessary background for all branches of modern mathematics involving analysis and to train the student in the use of axiomatic methods. Topics include metric spaces, sequences, limits, continuity, function spaces, series, differentiation and the Riemann integral.

Prerequisite: MATH 4357 or MATH 6402.

MATH 6353 Analysis II [3-0]

as scheduled

The purpose of this course is to present advanced topics in analysis. Topics may be chosen from (but not restricted to) normed linear spaces, Hilbert spaces, elementary spectral theory, complex analysis, measure and integration theory.

Prerequisite: MATH 6352.

MATH 6359 Applied Analysis [3-0]

as scheduled

This course provides an introduction to methods and applications of mathematical analysis. Topics include: function spaces, linear spaces, inner product spaces, Banach and Hilbert spaces; linear operators on Hilbert spaces, eigenvalues and eigenvectors of operators and orthogonal systems; Green's functions as inverse operators; relations between integral and ordinary differential equations and methods of solving integral equations. Some special functions important for applications are shown.

Prerequisites: MATH 2345, MATH 3349 and MATH 4318 or equivalent. Math 6352 is recommended.

MATH 6360 Ordinary Differential Equations [3-0]

as scheduled

This course examines existence and uniqueness theorems, 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 methods.

Prerequisite: MATH 3349 or consent of instructor.

MATH 6361 Partial Differential Equations [3-0]

as scheduled

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 [3-0]
as scheduled

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 and orthogonal systems. Prerequisite: MATH 6353 or consent of instructor.

MATH 6364 Statistical Methods

This is a course in the concepts, methods and usage of statistical data analysis. Topics include test of hypotheses and confidence intervals; linear and multiple regression analysis; concepts of experimental design, randomized blocks and factorial analysis; a brief introduction to non-parametric methods; and the use of statistical software.

Prerequisite: Consent of instructor.

MATH 6365 Probability and Statistics [3-0]
as scheduled

Topics in this course include 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 2401 or equivalent, or consent of instructor.

MATH 6370 Topology [3-0]
as scheduled

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, compactness, countability and separation axioms. Prerequisite: MATH 4360 or consent of instructor.

MATH 6375 Numerical Analysis [3-0]

This course provides a fundamental introduction to numerical techniques used in mathematics, computer science, physical sciences and engineering. The course covers basic theory on classical fundamental topics in numerical analysis such as: computer arithmetic, approximation theory, numerical differentiation and integrations, solution of linear and nonlinear algebraic systems, numerical solution of ordinary differential equations and error analysis of the above-mentioned topics. Connections are made to contemporary research in mathematics and its applications to the real world.

Prerequisites: MATH 2345, 2401 with a grade of C or better

and computer programming or consent of instructor.

MATH 6376 Numerical Methods for Partial Differential Equations[3-0]

as scheduled

This course provides a fundamental introduction to numerical techniques used in mathematics, computer science, physical sciences and engineering. The course covers basic theory and applications in the numerical solutions of elliptic, parabolic and hyperbolic partial differential equations. Prerequisites: MATH 2345, 2401 and 3368 with C or better or graduate-level Numerical Analysis with a B or better, some familiarity with ordinary and partial differential equations and computer programming or consent of instructor.

MATH 6385 Cryptology and Codes

Topics in this applied mathematics course include: elementary ciphers, error-control codes, public key ciphers, random number generators, e-codes and Data Encryption Standard. Supporting topics from number theory, linear algebra, group theory and ring theory will also be studied. Prerequisite: MATH 4351 or MATH 6401.

MATH 6387 Mathematical Modeling [3-0]
as scheduled

This course presents the theory and application of mathematical modeling. Topics will be selected from 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 [3-0]
as scheduled

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 6391 Master's Project

as scheduled

Individual work or research on advanced mathematical problems conducted under the direct supervision of a faculty member. The course, including a written report, could be taken twice.

MATH 6399 Special Topics in Mathematics

This course covers special topics in graduate level mathematics that are not taught elsewhere in the department. May be repeated for credit when topic is different. Prerequisite: Consent of instructor.

MATH 6401 Survey of Abstract Algebraic Structures [3-0]

This course provides an extensive survey of abstract algebraic structures from the areas of modern algebra, linear algebra

and number theory. Topics include logic, set theory, groups, rings, fields, relations, matrices, vector spaces, mathematical induction, congruences and number-theoretic functions. Emphasis is placed on the development and presentation of rigorous proofs of elementary results in these areas. Prerequisites: Graduate standing and consent of instructor. Students seeking a MS in Mathematics with prior credit for MATH 6331 or MATH 6332 with a grade of B or higher may not receive credit for this course as an approved elective.

MATH 6402 Survey of Analysis [3-0]

Topics are chosen from point set topology in the plane (open sets, compactness, connected sets, continuity), analysis (sequences, series, continuity and differentiability of functions in two-dimensional Euclidean space) and modern geometry (metric postulates for the Euclidean plane, postulates for the non-Euclidean plane). Emphasis is placed on the development and presentation of rigorous proofs of elementary results in these areas.

Prerequisites: Graduate standing and consent of instructor. Students seeking an MS in Mathematics with prior credit for MATH 6352 or MATH 6353 with a grade of B or higher may not receive credit for this course as an approved elective.

MATH 6455 Applied Mathematics I

fall, spring, summer

The course offers engineering students an in-depth look into the following topics: linear algebra including matrices, vectors, determinants, linear systems and matrix eigenvalue problems; vector differential calculus and vector Integral calculus including Integral theorems; complex numbers and functions including complex integration; power series and Taylor series; numeric linear algebra; and probability and statistics.

Prerequisite: Calculus III with a C or better.

MATH 6456 Applied Mathematics II

fall, spring, summer

The course offers engineering students an In-depth look into the following topics: first-order ODEs, second-order linear ODEs, higher order ODEs and systems of ODEs; series solutions of ODEs and special functions; Laplace transforms; Fourier series, integrals, and transforms; partial differential equations (PDEs); and numerics for ODEs and PDEs.

Prerequisite: MATH 6455

MATH 7300 Master Thesis I

First part of two course sequence.

Prerequisites: Graduate standing and consent of thesis advisor.

MATH 7301 Master Thesis II

Second part of two course sequence.

Prerequisites: Graduate standing and consent of thesis advisor.

UT TeleCampus MBA Online Program

MBAO 6311/AIM 6305 Accounting Analysis (UT Dallas):

The course is designed for managers who will use, not prepare, accounting information. It consists of three modules: Financial Accounting, Cost Management and Management Control.

MBAO 6312/MECO 6303 Economic Analysis (UT Dallas):

The emphasis of this course will be on fundamental aspects of economic analysis relating to individual firms and individual markets. The student will learn the impact of demand, how firms choose prices, the role of costs, the nature of competition and monopoly, the role of property rights, simple network economics and basic antitrust. Although not heavily used in the course, some reference will be made to calculus.

MBAO 6313/ MANA 6330 Management (UT Pan American):

An analysis of formal organizational behavior 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.

MBAO 6314/MS 6973 Quantitative Analysis in Business (UT San Antonio):

Introduction to managerial decision analysis using quantitative tools. Topics include a general framework for decision analysis, decision tables and trees, simulation, linear programming and related techniques, classical optimization, forecasting and probabilistic and statistical techniques. Uses applicable decision support software. Emphasis is on applications.

MBAO 6315/MRKT 6310 Marketing Management (UT Permian Basin):

An overview of the theory and practice of marketing. Study of the impact of organization structures and processes on the performance of organizational members. The practice of analytic and decision-making skills will be emphasized.

MBAO 6316/FINA 5311 Financial Management (UT Arlington):

The study of providing an organization with operating funds and effectively utilizing monetary resources. Primary emphasis on financial decision-making within organizations and techniques of financial analysis and forecasting.

MBAO 6331/GENB 5321 Research Methods (UT Tyler): The application of research techniques to business decision-making. Study of the scientific method: definition of survey, development of methodology, evaluation of alternatives, findings, summary, conclusions and recommendations.

MBAO 6332/CIS 5394 Information Systems for Managers (UT El Paso): This course will look at technology at a macro level. Each module examines the impact of today's information

systems on organizations, education, government, culture, society and the future.

MBAO 6333/BLAW Legal Environment in Business (UT Brownsville): The course will introduce the student to fundamental legal issues confronting managers in the contemporary American and global legal environment.

MBAO 6334/MANA 6360 Production and Operations Management (UT Brownsville): The study of the role of the production function in the business system and its relationship to marketing and finance. The focus is on the decision-making necessary for productivity improvement in the transformation process of manufacturing and non-manufacturing service organizations. Strategies of production system design, capacity management, quality management, production planning, inventory planning and control, facility location and supply-chain management are explored. Systems studied include Just-in-Time, Total Quality Management and Flexible Manufacturing Systems.
Prerequisite: MBAO 6314.

MBAO 6335/FINA 6328 ó Contemporary Topics in Financial Management (UT Permian Basin): The study of topics recently published in financial management literature. The topics will be selected from international, corporate risk management topics and vary from term to term.
Prerequisite: MBAO 6316.

MBAO 6336/ACC 6973 ó Accounting for Decision-Making (UT San Antonio): Accounting provides the primary quantitative data for management decision-making. This course is designed to enhance managers' and future managers' understanding of accounting measurement techniques and to provide them with the tools necessary to use this data. Topics discussed include budgeting, activity-based accounting, discounted cash flow techniques, productivity measurement and performance evaluation are discussed.
Prerequisite: MBAO 6311.

MBAO 6371/MANA 5350 ó Human Resource Management (UT Tyler): Advanced study of selected topics in human resource management with special emphasis on issues of current importance in the field. Topic areas in such human resource functions as staffing, development, appraisal and compensation will be covered.
Prerequisite: Students must earn 18 semester hours in the MBA Online program before taking these courses.

MBAO 6372/MANA 6332 ó Organizational Leadership and Change (UT Pan American): This course is designed to provide a broad overview of leadership and organizational change theories, practices and research. Special attention will be given to critical-thinking skills and the students' ability to communicate and lead effectively in the discussion chat room format.
Prerequisite: Students must earn 18 semester credit hours in the MBA Online program before taking these courses.

MBAO 6373/MANA 6334 ó International Management:

This course addresses the management of business in the international environment and the effects of social, cultural, political, legal, technological and economic environments on strategic planning and decision-making. Prerequisite: Students must earn 18 semester credit hours in the MBA Online program before taking these courses.

Additional Courses for MBAO Finance Emphasis

MBAO 6374/FINA 6325 ó Options and Futures (UT Permian Basin): Introduction to options, futures and other derivative securities. Topics include option valuation models, principles of forward and futures pricing, structure of markets for derivative securities and strategies for hedging and speculation.
Prerequisite: MBAO 6326.

MBAO 6375/FINA 6327 ó Portfolio Theory and Management (UT Permian Basin): A comprehensive investigation of modern portfolio theory. Unifying theme: optimization of the trade-off between risk and return. Examination of asset pricing models and security analysis issues within this framework. Course culminates in a discussion of portfolio management and performance evaluation. Prerequisite: MBAO 6316.

MBAO 6376/FINA 6330 ó International Finance (UT Permian Basin): A comprehensive study of international financial markets that covers currency exchange mechanisms in theory and practice, including international monetary systems; offshore financial markets; and currency risk management, including interest rate and currency futures, options and swaps.
Prerequisite: MBAO 6316.

Mechanical Engineering

MECE 6190 Engineering Seminar [1-0]

This one hour seminar course is geared toward helping graduate students develop and improve their oral presentation skills and provide them with technical expertise in their field of study. The class will feature engineering presentations prepared by faculty and graduate students from various engineering disciplines and backgrounds. Students enrolled in this class will gain great oral presentation experience by presenting their work in front of an audience and by learning from other featured speakers. The experience gained from this seminar course will prove invaluable for students in their future careers.
Prerequisite: Graduate standing in engineering.

MECE 6310 Intermediate Engineering Analysis [3-0]

Topics include vector algebra, coordinate systems, vector differential calculus, vector integral calculus, tensor analysis and applications, calculus of variations and variational analysis.
Prerequisite: Graduate standing in engineering.

MECE 6317 Corrosion Engineering [3-0]

fall, spring, summer

The corrosion phenomena are complex due to the coexistence of electrochemical, metallurgical, biological and environmental parameters which can act at the surfaces. The Corrosion Engineering course will provide an understanding of the mechanisms of corrosion, characterization of the process, protection by coatings and lifetime prediction. The fundamentals of thermodynamics and kinetic concepts will be used to describe destructive chemical interactions of materials with their environment. Particular emphasis will be placed on the identification and solution of practical corrosion problems in real engineering situations.

Prerequisite: Graduate standing in engineering.

MECE 6318 Thermodynamics of Materials [3-0]

First, second and third laws of thermodynamics and their applications to materials. Thermodynamics of solutions, phase equilibria, Ellingham diagrams, binary and ternary phase diagrams. Phase transformations, thermodynamics and kinetic principles. Thermodynamics of modern materials. Prerequisites: Graduate standing in engineering

MECE 6319 Thin Films and Surface Engineering [3-0]

Techniques and processes of thin film deposition and surface treatment; Vacuum science and technology; Fundamental processes occurring during thin film deposition (adsorption, surface diffusion, nucleation, and microstructure development); major thin film deposition processes: evaporation, sputtering, chemical and the coating systems; Testing, characterization and applications of novel thin films (precision mechanical engineering, electronic devices, aerospace industries).

Prerequisites: Graduate standing in engineering

MECE 6320 Fracture Mechanics [3-0]

Development of the tools of linear and nonlinear fracture mechanics with coverage of theoretical considerations. The primary focus of the course is applications of tools to solution of practical problems in fracture prediction and failure analysis. Significant attention is paid to the phenomenology of fracture in metals, polymers, ceramics and composites.

Prerequisites: Graduate standing in engineering

MECE 6321 Intermediate Composite Material Design [3-0]

An introduction to the theory of mechanics of solids for elastic and viscoelastic composite materials. Emphasis on analysis and design of structural laminate composite including failure mechanism, e.g., fatigue, delamination and dynamics of composites including effective moduli and material damping.

Prerequisites: Graduate standing in engineering

MECE 6322 Ceramic Materials Engineering [3-0]

A survey of the fundamental properties of ceramic and glass materials which are utilized in electronic, electro-optic, thermal and mechanical systems. Includes an introduction to the manufacturing processes specific to ceramics with an emphasis on their interaction with the design process. Probabilistic design schemes for mechanical components are covered and students perform a detailed component or process design. Several laboratory demonstrations and assignments are included.

Prerequisites: Graduate standing in engineering.

MECE 6323 Polymer Processing [3-0]

Course designed to provide fundamental understanding of polymer processing techniques. The course presents information that relates the thermo-physical, mechanical and rheological properties of polymeric materials with particular processing techniques. Manufacturing polymer processes such as mixing, extrusion, injection molding, calendaring, fiber spinning and processes related to nanoreinforced polymer fabrication are studied.

Prerequisites: Graduate standing in engineering

MECE 6324 Viscoelasticity Theory [3-0]

Introduction to the mathematical theory of linear viscoelasticity with a focus on solution of real problems. Coverage of transform techniques, numerical models, design of viscoelastic components and experimental determination of viscoelastic constitutive relations.

Prerequisites: Graduate standing in engineering

MECE 6325 Composite Structures Engineering [3-0]

The course is devoted to the theory and/or analysis of composite materials (i.e. composite laminates) and structures in particular. The principles and method for the analysis and design of structural components, from micromechanics through macromechanics to structural analysis, are presented along with the discussion of how these theories may be used in practical design problems.

Prerequisite: Graduate standing in engineering.

MECE 6326 Polymer Engineering [3-0]

Introductory course designed to provide a polymer materials science background to engineering students that will enable them to design polymer components.

Prerequisites: Graduate standing in engineering

MECE 6327 Intermediate Nanotechnology [3-0]

Course designed to introduce fundamental nanotechnology and nanoscience aspects as well as to study a variety of technologies and potential applications that fall under the nanotech umbrella. The nanotechnology revolution provides an opportunity for the students to foster creative thinking given the vast potential in the area.

Prerequisites: Graduate standing in engineering

MECE 6328 Spectroscopic Techniques [3-0]
spring

Course designed to introduce students to spectroscopic techniques used in the identification of organic compounds. Techniques such as mass spectrometry, infrared, wave dispersive spectrometry, x-ray photoelectron spectroscopy and elemental dispersive spectroscopy will be studied. Students will have an opportunity to get practical experience in operating some of the studied techniques.
Prerequisites: Graduate standing

MECE 6329 Introduction to Laser Material Processing [3-0]
fall

This course will introduce the concept of stimulated emission of radiation and its application in practical laser systems. It will demonstrate means for focusing lasers and the control of the energy produced. Additionally, the course will present applications in areas such as welding, marking, surface treatments, forming and prototyping. Students will learn the use of lasers and their applications in laser materials processing, the principles of laser-materials interaction, safety and new applications of the laser technology to enhance current practices.
Prerequisites: Graduate standing in engineering.

MECE 6331 Intermediate Dynamics of Mechanical Systems [3-0]

Intermediate dynamics, including Newton-Euler, Lagrange, and Hamilton's principles; gyroscopic effects in mechanical systems; analysis of stability of systems; numerical simulation.
Prerequisite: Graduate standing in engineering.

MECE 6332 Intermediate Mechanical Vibrations [3-0]

An examination of linear, multi-degree of freedom and continuous vibratory systems, both conservative and non-conservative. Free and forced vibration problems using generalized coordinates are also examined.
Prerequisite: Graduate standing in engineering.

MECE 6333 Nonlinear Dynamics and Chaos [3-0]
fall

This course covers the essentials of nonlinear dynamics and chaos in mechanical engineering. Topics include: Principles of dynamics, principle of virtual work, Hamilton principle, Lagrange equations, continuous systems applications. Nonlinear models and nonlinear phenomena. One-degree-of-freedom systems, qualitative analysis, equilibrium, stability, limit cycles, bifurcation, chaos, strange attractors and fractals; quantitative analysis, approximate asymptotic techniques; conservative systems, nonconservative systems, forced systems, subharmonic and superharmonic resonances, parametrically excited systems. Finite-degree-of-freedom systems, free oscillations of gyroscopic systems, forced oscillations of quadratic or cubic nonlinear systems, parametrically excited systems. Nonlinear continuous

systems, beams, strings, plates. Experimental nonlinear dynamics and chaotic vibrations. Utilization of MATLAB in mechanical engineering applications related to nonlinear dynamics and chaos.

Prerequisites: Graduate standing in engineering or consent of faculty advisor.

MECE 6339 Tracking Theory and Applications [3-0]
spring

This course provides a means of calculating estimates of quantities based on observations of physical systems. The objective of the course is to give the student an understanding of tracking theory and its applications. The course will include a derivation of the equations used in estimation, and a computer-programming project in which the equations will be applied. The computer-programming project will involve a simulated satellite orbit determination project. Previous course work or knowledge in orbit theory and control theory is not required.
Prerequisites: Graduate standing in engineering.

MECE 6341 Modeling of Physical Systems [3-0]
fall

This course reviews principles that govern the behavior of dynamic systems and introduces lumped-parameter methods for building mathematical models and simulations of engineering systems. An energetic approach based on bond graph techniques, invented in 1959 by Henry M. Payntner, is introduced and used to model, simulate and analyze mechanical, electrical, magnetic electromechanical, hydraulic and thermal systems. Advanced topics include nonlinear mechanics, Lagrange's Equations and distributed-parameter systems.
Prerequisite: Graduate standing in engineering

MECE 6342 Modern Control Systems [3-0]
spring

This course is an introduction to state variable methods for design and analysis of control systems. Concepts including controllability, observability, calculus of variations, linear quadratic regulator, optimal control, Lyapunov stability criteria and Pontryagin's Minimum Principle are covered for discrete- and continuous-time systems.
Prerequisites: MECE 6341 or equivalent and graduate standing in engineering

MECE 6343 Digital Control Systems [3-0]
fall

This course presents the theory of digital control systems required to design, simulate and implement a control strategy using computers and discrete data manipulation. The development of microprocessors, microcontrollers and digital signal processors allow taking sampled data measurements of the system output and compute a feedback control signal to make decisions and generate a desired system performance. Digital control systems are highly flexible, can implement complex control strategies and are easily reprogrammable. Analysis and design tools will be studied for the design of digital controllers. MATLAB/Simulink will be used to design and simulate the digital controllers.

Prerequisites: MECE 6341 or equivalent and graduate standing in engineering

MECE 6344 Nonlinear Control Systems [3-0]
spring

This course is meant to be an introduction to advanced nonlinear control methods including variable structure systems, feedback linearization and sliding mode control. It covers methods of stability analysis and controller design of nonlinear controls. The course will review such topics as phase-plane analysis and Lyapunov Stability Criteria and advanced topics including adaptive control methods. Prerequisites: MECE 6341 or equivalent and graduate standing in engineering

MECE 6360 Advanced Mechanics of Materials [3-0]
fall

The topics covered in this course include: theory of elasticity, principles of stress and strain, inelastic material behavior, applications of energy methods, bending and torsion of general cross-sections, curved beams, elastic and inelastic stability of columns and flat plates. Prerequisite: Graduate standing in engineering.

MECE 6362 Finite Element Analysis [3-0]

An introduction to the theory of finite element methods, with application to stress analysis, natural frequency extraction and heat transfer. Strategies for meshing and applying boundary conditions are also examined. Existing codes are used for determining finite element solutions. Prerequisite: Graduate standing in engineering.

MECE 6372 Viscous Flow I [3-0]
fall

Course is aimed towards familiarizing the student with the properties of a fluid, viscous flow phenomena and the fundamental equations of compressible viscous flow, such as the conservation of mass and momentum equations and the energy equation. Solutions to some of the most common Newtonian viscous flow equations, such as the Couette and Poiseuille flows and some unsteady duct flows will also be explored. Laminar boundary layers will be studied in detail. Prerequisites: Graduate standing in engineering

MECE 6373 Viscous Flow II [3-0]
spring

This course is a continuation of MECE 6372 Viscous Flow I. Coverage begins with a detailed study of laminar boundary layers, a select few boundary-layer solutions and two finite-difference approaches will be presented. Stability theory and the latest engineering predictions of laminar to turbulent transition will be examined. Incompressible turbulent mean flow and turbulence modeling will be explored. Prerequisite: MECE 6372 or equivalent or instructor's permission.

MECE 6375 Engineering Acoustics [3-0]
fall

Course is designed to develop an understanding of the

fundamentals of acoustics, such as traveling waves in one- and two-dimensions, the derivation and nature of the fundamental fluid acoustic equations, the phenomena associated with reflection, transmission, radiation, reception, absorption and attenuation of sound, and the phenomena associated with cavities and waveguides, including sound propagation in pipes, resonators and filters. Prerequisites: Graduate standing in engineering

MECE 6380 Combustion Engineering [3-0]
fall

The topics covered in this course include: role of combustion in energy, environment and fire problems, thermodynamics of combustion (thermochemistry), fuels (gas, liquid, solid), chemical kinetics, combustion of gaseous and vaporized fuels (flames), combustion of liquid fuels, combustion of solid fuels, pollutant emissions, and modern measurements. Prerequisites: Graduate standing in engineering

MECE 6384 HVAC System Design [3-0]

Heating, ventilating, air conditioning and refrigeration is a specific application of the principles of thermodynamics, heat transfer and fluid mechanics to the design and analysis of systems that maintain the environmental conditions of controlled space. An emphasis is placed on the practical application of principles to design and analysis of HVAC systems in building and the use of HVAC software. Prerequisite: Graduate standing in engineering.

MECE 6398 Master's Report

Preparation of a report to fulfill the requirement for the master's degree under the report option. The equivalent of three lecture hours a week for one semester. Offered on the letter-grade basis only. Prerequisites: Graduate standing in mechanical engineering and consent of the graduate advisor.

MECE 7300 Master's Thesis

Preparation of a thesis to fulfill the requirement for the master's degree under the thesis option. The equivalent of three lecture hours a week for one semester. Offered on a letter-grade basis only. Prerequisites: Graduate standing in mechanical engineering and consent of the graduate advisor.

Management Information Systems

MIS 6330 Management Information Systems [3-0]

fall
The study of computer information systems used in business. The focus is on types of applications used at different levels of management; operation, tactical and strategic. Emphasis is

placed on the use of microcomputer applications in making management decisions.

Prerequisite: CIS 3390 or consent of instructor and CIS Department Chair.

MIS 6335 Seminar in Information Systems [3-0]
as scheduled

An in-depth analysis of contemporary information systems topics with emphasis on the economic and technological impact of computer information systems on the business environment. Can be retaken for credit.

Prerequisite: MIS 6330.

MIS 6336 Global Information Technologies [3-0]
spring

The purpose of this course is to investigate the role of information technology in multinational settings. This course will examine the international business environment and how information systems and technology can be effectively utilized in multinational organizations.

Prerequisite: MIS 6330 or equivalent

MIS 6391 Information Security and Assurance Management [3-0]
spring

This course is targeted towards graduate students and practitioners as it focuses on the significance of Information Security in present-day business organizations. The objective of this course is to provide students with a comprehensive understanding of the problems related to Information Security, and solutions to these problems. Students will receive theoretical and practical instructions in both managerial and technical aspects of securing information in organizations. The course will be helpful to students who are interested in attaining Certified Information Systems Security Professional certification and/or careers in Information Security.

Prerequisite: MIS 6330 or equivalent

Middle School Mathematics

MMAT 6397 Special Topics in Middle School Mathematics [3-0]

as scheduled

This course covers special topics in middle school mathematics teaching. May be repeated when the topic is different.

Prerequisite: Consent of instructor.

Music

MUS 6105 Graduate University Choir

Vocal music ensemble. Students learn and develop vocal technique and music reading skills while preparing advanced literature of diverse musical styles.

MUS 6106 Graduate University Band

Instrumental music ensemble. Students learn and develop instrumental technique and reading skills while preparing advanced literature of diverse musical styles.

MUS 6107 Graduate Symphony Orchestra

Symphonic music ensemble. Students learn and develop symphonic instrumental techniques and reading skills while preparing advanced literature of diverse musical styles.

MUS 6120 Graduate Chamber Music

Small vocal and/or instrumental ensemble. Students will learn and develop chamber music techniques and skills while preparing advanced music literature of diverse musical styles.

MUS 6130 Graduate Applied Recital

Preparation and presentation of a full-length recital in the student's major area of performance. Literature and quality of performance must be indicative of graduate level study. Student must pass a qualifying recital hearing at least ten days prior to performance. Memorization requirement of 60 minutes applies. A requirement for graduation for students selecting the performance option. Prerequisite: At least 20 degree hours, including six hours of applied music.

MUS 6230 Graduate Applied Music

Private lessons in any area of performance for which graduate instruction is available for one hour lesson per week. Quantity and difficulty of literature is indicative of graduate study, requiring considerable practice. A maximum of eight hours may be applied towards a degree. Prerequisite: Acceptance by the instructor.

MUS 6240 Graduate Pedagogy of Applied Vocal/Instrumental Instruction

Supervised teaching of applied music in an applied lesson setting.

MUS 6331 Pedagogy of Music

Intense examination of issues and problems related to teaching, learning and performance. Subject matter varies with each topic. May be repeated when topics vary to satisfy degree requirements. There are three topics in elementary music, three topics in instrumental music, three topics in vocal/choral music, two topics in conducting, two topics in accompanying and two topics in the cultural and regional music literature and instruments of Mexico.

MUS 6332 Seminar in Graduate Music Theory

Advanced study of musical forms, structures and instrumentation. May be repeated when topics vary to satisfy

degree requirements. Topics include I. Analysis, II. Orchestration and Arranging, III. Twentieth Century Music, and IV. Advanced Aural Theory.
Prerequisite: Graduate standing in music.

MUS 6333 Music History and Literature

Advanced study of the history and literature of music from antiquity to the present. May be repeated when topics vary to satisfy degree requirements. Topics include I. The History and Literature of Keyboard Music, II. Orchestral Music, III. Choral Music, and IV. Instrumental Music (non-orchestral).

MUS 6334 Research Methods in Music

Music bibliography and criticism. Survey of standard research tools in music. Development of research tools and techniques and methods of research design. Recommended to be taken near the beginning of graduate study. Required of all graduate students in music.
Prerequisite: Graduate standing in music.

MUS 6335 Graduate History of Mexican Folk Music

Advanced study of the development of the cultural and regional and popular music of Mexico from early cultures to the present. The course will relate the development of musical forms to historical events in Mexico and will trace the interrelationship between attitudes of society and the music which resulted.

MUS 6336 Border Music of South Texas

A study of the cultural, regional and popular music of the South Texas region as it reflects the culture, traditions and social development of the Mexican-American community.

MUS 6337 Foundations of Ethnomusicology

A study of the history of ethnomusicology since the early 20th century; to provide an overview of the historical and bibliographic resources; to provide an understanding of the interdisciplinary relationship between ethnomusicology and other areas of musical processes and humanistic inquiry.

MUS 6338 Ethnographic and Analytical Methods

This course will investigate approaches and methods of ethnomusicological documentation and analysis of field research in ethnomusicology, including investigation of research and collection methods, performance practice methods and the analysis and synthesis of this data. Ethnomusicological fieldwork is an important component of this course and skill in musical transcription is a requirement.

MUS 6339 Ethnomusicological Seminars in Music and Culture

Historic and-ethnographic studies focusing in depth on a specific topic surrounding Western and Non-Western musical traditions, historical and stylistic periods and musical repertoires. Possible Topics: "The Politics of Music," "Music and Globalization," "Opera and Society." May be repeated as topics vary to satisfy six hours.

MUS 6395 Independent Studies

Individual readings and/or research on a selected topic under

the supervision of a faculty member.
Prerequisite: Permission of instructor.

MUS 7300 Thesis

Preparation of original research and approval of the thesis topic under the supervision of the student's major professor and advisory committee.

MUS 7301 Thesis

Continuation of MUS 7300. Prerequisite: MUS 7300.

Nursing

NURS 6208 Nursing Informatics [1-3]
as scheduled

This course provides the student the opportunity to use computer applications in nursing and healthcare.
Prerequisites: Graduate student status

NURS 6209 Professional Nursing Issues [2-0]
spring

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.
Prerequisite: Graduate student status.

NURS 6247 Role Development for the Nurse Practitioner [1-3]
as scheduled

This course focuses on the five roles of the advanced practice nurse. Incorporated are concepts of peer review, legal parameters of quality practice, ethical practice, caring, business management and accountability. Theoretical concepts related to role theory, feminist theory and androgyny are included.
Prerequisite: Graduate student status, NURS 6305 and 6310.

NURS 6301 Theoretical Foundations in Nursing [3-0]
summer

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.
Prerequisite: Graduate student status.

NURS 6302 Research in Nursing [3-0]
spring

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.

Prerequisite: Graduate student status, NURS 6303 (or concurrent enrollment).

NURS 6303 Statistics in Nursing [2-3]
fall

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.

Prerequisite: Graduate student status, credit for or concurrent enrollment in NURS 6208.

NURS 6304 Advanced Pathophysiology in Nursing [3-0]
fall

This course explores changes in normal cellular and tissue functions and related physiologic processes of the major body systems caused by disease and aging. Prerequisite: Graduate student status.

NURS 6305 Advanced Health Assessment [2-3]
fall

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.

Prerequisites: Graduate student status

NURS 6306 Pharmacology for Advanced Nursing Practice [3-0]
spring

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 management of selected health problems is emphasized.

Prerequisites: Graduate student status.

NURS 6307 Health Care Policy, Organization and Financing [3-0]
summer

This course focuses on health care policy, organization and financing. The advanced practice nurse's role in the provision of quality cost-effective care, participation in design and implementation of health care in a variety of health care systems, and leadership in managing human, fiscal and physical health care resources is emphasized.

Prerequisite: Graduate student status.

NURS 6310 Advanced Practice: Health Promotion [2-3]
fall

This course focuses on the assessment and management of essentially healthy children and adults, including pregnant

women, in a variety of health care settings. Conceptualization of health, health promotion and disease prevention related to age and cultural values is explored. The Mexican-American cultural dynamics receive special emphasis. Age appropriate primary and secondary prevention and risk reduction strategies and their research base are examined.

Prerequisite: Graduate student status.

NURS 6311 Advanced Practice: Rural Health Nursing [2-3]
spring

This course focuses on the role of the advanced practice nurse in coordination and delivery of primary health care in rural settings. Health care related problems specific to rural communities and the Mexican-American culture are explored through epidemiological methods. Health promotion interventions which are community centered, research based and culturally competent are identified. The effect of state and federal regulations on rural primary health care access and quality is analyzed.

Prerequisite: Graduate student status.

NURS 6322 Advanced Adult Health II [1-6]
fall

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.

Prerequisites: NURS 6301, NURS 6304, NURS 6305, NURS 6306, NURS 6310 and Graduate student status.

NURS 6323 Advanced Adult Health III [1-6]
spring

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.

Prerequisites: NURS 6322 and NURS 6306 and Graduate student status.

NURS 6341 Advanced Practice I [2-3]
summer

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 advanced practice roles from an historical perspective as well as their impact upon advanced nursing practice. The potential impact of advanced practice nursing in the Rio Grande Valley will be emphasized.

Prerequisite: Graduate student status.

NURS 6342 Advanced Practice II [1-6]

fall

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 advanced practice roles are identified.

Students work with preceptors to implement and evaluate advanced practice in a clinical area.

Prerequisite: NURS 6341 and Graduate student status.

NURS 6343 Educator I [2-3]

summer

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.

NURS 6344 Educator II [1-6]

fall

This course emphasizes the implementation and evaluation of nursing curriculum and instruction. Students will contract with nursing educators for learning experiences that will provide mentoring in the educator role.

Prerequisite: NURS 6343.

NURS 6612 Advanced Practice: Family Nurse Practitioner I [2-12]

fall

This course focuses on assessment, diagnosis and management of common episodic and chronic conditions of children and adults. Included is the study of their epidemiology, pathophysiology, symptom complexes and research-based treatments as well as appropriate patient education resources and protocol development. Attention is given to the integration and application of advanced health assessment skills, developmental and family theories, and health promotion strategies in the diagnostic and management processes of the advanced nurse practitioner role.

Prerequisites: NURS 6311 and NURS 6247.

NURS 6613 Advanced Practice: Family Nurse Practitioner II [1-15]

spring

This course provides the opportunity for the graduate student to integrate previously acquired knowledge into practice and to develop clinical expertise as a nurse practitioner. Assessment and management of additional selected health problems frequently seen in primary health care will be explored. Students will increase their responsibility for management of health and illness conditions as competence is validated by preceptors and faculty.

Prerequisite: NURS 6612.

NURS 7300 Thesis I (Proposal)

as scheduled

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.

Prerequisites: Credit for or concurrent enrollment in advanced practice clinical courses. NURS 6302 and Graduate student status.

NURS 7301 Thesis II

as scheduled

This course continues the individual student contact with faculty to complete and defend the thesis.

Prerequisite: NURS 7300.

NURS 7302 Practice Intervention Project

as scheduled

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, along with implementation and evaluation. The student will give a written and oral presentation of the project to a selected audience.

Prerequisites: Credit for or concurrent enrollment in NURS 6302.

Occupational Therapy

OCCT 6301 Human Occupation I [3-0]

A study of the relationship between human occupation and health through the life span. This course will emphasize occupation in the context of social participation as it relates to the health and culture of individuals.

Prerequisite: Acceptance into the MSOT Program.

OCCT 6302 Foundations of Occupational Therapy [3-0]

An introduction to occupational therapy. It surveys the history, philosophy, theoretical concepts and clinical methods and techniques that support the practice of occupational therapy. This course emphasizes the origins, beliefs and values of occupational therapy across the continuum of time, sociopolitical factors and health systems.

Prerequisite: Acceptance into the MSOT Program.

OCCT 6303 Research Methods in Occupational Therapy [3-0]

An introduction to basic concepts and terminology in scientific inquiry and their application in interpreting published research as it impacts on evidence-based practice. Students will locate examples of evidence that support the relationship between human occupation and health, including various methodologies using both quantitative and qualitative designs.

Prerequisite: Acceptance into the MSOT Program.

OCCT 6304 Systems Impacting Occupational Performance [3-0]

The study of systems theories as they relate to occupation, health and culture. Using principles of systems theory, students will examine the roles and functions of occupational therapy, in the context of local and regional environments, some of which will be health related. The impact on home, work, and community systems will be explored. Components of the environment (psychological, social, physical, natural) will also be studied.

Prerequisite: Acceptance into the MSOT Program.

OCCT 6305 Human Occupation II [3-0]

Examination and analysis of the contribution of the structure, function and development of biological and physical systems as support for occupational performance and their effects on human occupation and function. Emphasis is given to anatomical, physiological and neurological systems.

Prerequisites: OCCT 6301 and OCCT 6302.

OCCT 6306 Human Occupation III [0-3]

Examination and analysis of the contribution of the structure, function and development of neurological systems as support for occupational performance and their effect on human occupation and function.

OCCT 6307 Research and Policy in Health Care [3-0]

Research methods employed in health-related studies, e.g. epidemiology, are introduced. Emphasis is given to systematic comparisons among various health policy models and fiscal systems, using both national and international resources. The grant-writing process for health-related research is explored.

Prerequisite: OCCT 6303.

OCCT 6308 Practicum A [0-3]

A field-based experience in which students analyze the role of occupational therapy in community settings under the supervision of faculty. Includes a seminar in ethics and standards of practice, as well as regularly scheduled meetings for individual and group supervision.

Prerequisites: OCCT 6301, OCCT 6302 and OCCT 6304.

OCCT 6309 Health, Illness and Disability [3-0]

An examination of health, illness and disability in relation to occupation, activities and social participation. Provides an overview of selected diseases and conditions, which affect occupational performance. Explores concepts of disability and health and includes current international classifications of health and disability and study of the Americans with Disabilities Act.

Prerequisites: OCCT 6301 and OCCT 6304.

OCCT 6310 Theories of Occupational Therapy [3-0]

Analysis of occupational therapy theories with regard to concepts of body structure/function, activities, social participation and environmental context. Prerequisites: OCCT 6301 and OCCT 6302.

OCCT 6311 Practicum B [0-3]

A field-based experience in which students will relate knowledge gained in OCCT 6401, OCCT 6307 and OCCT 6308 by examining the sensory, cognitive and psychological components of occupation in normal populations. Students will be able to observe, describe and analyze human performance across the lifespan within the context of everyday life. Includes regularly scheduled meetings for individual and group supervision.

Prerequisites: OCCT 6401, OCCT 6307 and OCCT 6308.

OCCT 6312 Systems Analysis [3-0]

Using customary public health assessments, students will analyze elements of home, work and community environments with regard to occupation and health.

Prerequisites: OCCT 6304 and OCCT 6308.

OCCT 6313 Special Topics in Occupational Therapy [3-0]

Students will develop a research question suitable for a scholarly project in collaboration with faculty scholars. In-depth reading on the topic will be required. Prerequisites: OCCT 6303 and OCCT 6305.

OCCT 7301 Occupational Therapy Skills [3-0]

Provides students with laboratory experiences designed to integrate information from the theory and systems intervention courses. Explores intervention strategies and methods surrounding continuity of care across ages and environments. Includes motor learning, low and high technology interventions, documentation and skills training focusing on self-care, work and leisure as occupations.

Prerequisites: OCCT 6304, OCCT 6401 and OCCT 6308.

OCCT 7302 Management of Occupational Therapy Services [3-0]

The application of principles of management and systems in the provision of occupational therapy services to individuals and organizations.

Prerequisites: OCCT 6306, OCCT 6309.

OCCT 7303 Advanced Applied Research [3-0]

Completion of scholarly project.

Prerequisites: OCCT 6303, OCCT 6305 and OCCT 6311.

OCCT 7304 Occupational Therapy Skills II [3-0]

Provides students with clinical experiences designed to integrate information from the theory and systems intervention courses. Explores intervention strategies and methods surrounding continuity of care across ages and environments, including motor learning, low and high

technology, documentation and skills training. Includes a field-based experience (Practicum C).

OCCT 7401 Systems Intervention I [3-3]

Using a client-centered approach within a systems model, students develop intervention plans that include rationale for selection of appropriate theories, assessments and interventions.

Prerequisites: OCCT 6304 and OCCT 6401.

OCCT 7402 Systems Intervention II [3-3]

Using a community-based approach within a social system, students will design intervention plans that include rationale for selection of appropriate theories, assessment and interventions as well as methods for delivery of services.

Prerequisite: OCCT 7401.

OCCT 7601 Field Studies in Occupational Therapy I [0-6]

The equivalent of 12 weeks full-time advanced field experience. Prerequisite: Successful completion of all academic coursework.

OCCT 7602 Field Studies in Occupational Therapy II [0-6]

The equivalent of 12 weeks full-time advanced field experience. Prerequisite: Successful completion of all academic coursework.

Physician Assistant Studies

PHAS 5111 Radiology Seminar [0-0-3]

summer I

This course provides the physician assistant student with an overview of radiographic technologies such as X-rays, computed tomography scans, ultrasounds, magnetic resonance images and other specialized radiographic studies. Basic interpretation and use of radiographic studies in clinical practice are emphasized in this course.

Prerequisite: PHAS 5301, 5318, 5319

PHAS 5112 Health Policy and Health Management [1-0]

summer I

This course will survey the U.S. health care delivery system and review the economic and policy issues that face our system. Particular focus will be on those issues that directly affect the practicing physician assistant. The student will undertake an in-depth review of managed care, reimbursement and other economic/financial issues and policies.

Prerequisite: PHAS 5211

PHAS 5113 Clinical Laboratory Interpretation

[0-3]

summer I

This course is a continuation of CLSC 5227, Clinical Laboratory Methods. Emphasis is given to interpretation and application of laboratory data. Clinical correlations of laboratory data with the history and physical addressed.

Using laboratory data to formulate the assessment and plan is discussed.

Prerequisite: CLSC 5227, PHAS 5328, 5225, 5407

PHAS 5114 Research and Statistical Methods In Health Care [1-0]

spring

Philosophy and principles of research process with emphasis on scientific methods of inquiry. Topics include epidemiology and its relevance to clinical practice, types of research designs, sampling, measurements, data collection and analysis. Students will have the opportunity evaluate current literature from the medical journals in the light of research design and data collection.

Prerequisite: Admission into the Physician Assistant Studies Program.

PHAS 5115 Introduction to Clinical Practice

[0-0-3]

summer I I

The purpose of this course is to offer the physician assistant student a means of making the connection from textbook to practice. Students will utilize knowledge and skills learned in all prior coursework in order to formulate the diagnostic workup and treatment plan. Discussions will include the transition to the clinical year.

Co-requisite: PHAS 5113

PHAS 5116 Electrocardiography Seminar [0-0-3]

summer I I

This seminar covers implementation and interpretation of electrocardiograms (ECG). The ECG interpretation section provides students with a systematic method of interpreting a 12-lead ECG with respect to rate, rhythm and blocks, electrical axis determination, hypertrophy, ischemia, injury, infarction, and miscellaneous drug, electrolyte, disease, and pacemaker effects.

Prerequisite: PHAS 6301, 5318, 5319

PHAS 5117 Evidence-Based Medicine and Medical Research Design [0-0-3]

summer I

This course introduces students to the concepts of evidence-based medicine and medical research design, while stressing the examination of evidence from clinical research as a basis for clinical decision-making. Physician assistant students learn how to construct well-built clinical questions based on patient problems and to perform medical literature searching strategies that yield optimal results. Methods for critically appraising the medical literature are emphasized throughout the course, as well as strategies for keeping up with new medical findings beyond physician assistant school.

Basic techniques of medical writing are also discussed in relationship to the physician assistant student's development of a Master's project upon graduation.

Prerequisite: PHAS 5114

PHAS 5211 Studies in the Physician Assistant Profession

[0-0-3]

summer I

Examines the history and concept of the physician assistant profession. Discusses issues that are relevant to professional practice and legal practice. Discussion of future trends in the profession.

Prerequisite: Admission into the Physician Assistant Studies Program.

PHAS 5221 Legal and Ethical Issues in Health Care

[2-0]

summer II

Explores medical jurisprudence and licensing. Students will be introduced to the dynamics of the legal system, moral problems in health care, and the impact of both on professional and institutional interactions with patients. Students will be given opportunity to demonstrate 1) an understanding of ethical principles and legal factors which impinge upon health care, 2) the ability to apply ethical and legal concepts to the analysis of the roles and responsibilities of the health professional.

Prerequisite: PHAS 5211

Co-requisite: PHAS 5112

PHAS 5225 Medical Interviewing

[1-3]

fall

A lecture, laboratory and workshop course designed to provide the means to practice basic techniques of interviewing all age groups, including pediatric and geriatric patients. Details the basic medical history. Cultivates skillful communications with patients and families. Special attention is given to diverse populations. Employs simulated patients and situations.

Prerequisite: Admission into the Physician Assistant Studies Program.

Co-requisite: PHAS 5407

PHAS 5226 Medical Psychiatry

[2-0]

summer II

Explores psychiatry illness and expands on the medical interview with a complicated patient or problem. Directs the ability to assess growth and development for all age groups. Coordinates the relationship of the history and physical examination to the human psyche. Course provides an overview of psychiatric concepts and an introductory approach to the evaluation of patients with emotional problems, in preparation for clinical rotations. Discussions include topics in human sexuality, substance abuse, and mental/physical abuse.

Prerequisite: PHAS 5225, 5407

PHAS 5229 Patient Education

[1-3]

spring

A laboratory and workshop course that enables the student

the opportunity to prepare and rehearse patient education techniques. Promotes teaching patients and families about disease and treatment in lay terms. Stresses addressing various age groups and medical conditions common to each group. Advocates empathy and acceptance. Employs simulated patients and situations.

Prerequisite: PHAS 5225, 5407

PHAS 5237 Preventive Medicine and Community Health

[2-0]

spring

Examines the bio-demographics of disease in the United States. Emphasis is on prevention from the perspective of the primary health care provider. Encourages community involvement. Discussions focused on prevention of disease. Special attention is given to the local medical practices and beliefs of the Rio Grande Valley and Texas-Mexico border region. Guest lectures include topics in rural health, community outreach, HIV/AIDS awareness and prevention, cancer awareness, sexual health, and folk and alternative medicine.

Prerequisite: Admission into the Physician Assistant Studies Program.

PHAS 5262 Clinical Clerkship

[1-3]

spring

This course covers the indications, contraindications, step-by-step procedures, and potential complications of multiple hands-on skills that are commonly performed by Physician Assistants in clinical practice. Examples include: phlebotomy, injections, IV therapy, urethral and nasogastric catheterization, pulmonary function testing, suturing, casting and splinting, various ENT procedures, electrical cardioversion, and use of various types of monitoring devices and restraints. Students will have an opportunity to scrub, gown, and glove in an operating room environment. In addition, students will be required to successfully complete an Advanced Cardiac Life Support (A.C.L.S.) training course. Course also covers documenting in the medical record.

Prerequisite: Admission into the Physician Assistant Studies Program.

PHAS 5301 Medical Human Anatomy

[2-3]

fall

This course provides entry-level physician assistant students with a comprehensive and advanced review of gross anatomy using a regional approach to the human body. Lecture and laboratory components of this course will emphasize the clinical relevance of each area considered. All students will be required to handle and use prosected human cadavers and computer assisted learning (CAL) modules.

Prerequisite: Admission into the Physician Assistant Studies Program.

PHAS 5306 Medical Physiology and Pathophysiology I

[3-0]

fall

This course provides a systematic approach to the physiologic basis for disease. The general pathology of cell injury, inflammation, infection and neoplasia are presented along with the disease processes of organ systems including

the gastrointestinal, cardiovascular, respiratory, endocrine, dermatological, and hematological systems. General concepts of disease are covered including degeneration and necrosis, inflammation and repair, fluid and coagulation disturbances, and general aspects of neoplasia. Disease entities in each organ system are studied with regard to causation, evaluation, and morphology of pathological changes.

Prerequisite: Admission into the Physician Assistant Studies Program.

Co-requisite: PHAS 5301

PHAS 5307 Medical Physiology and Pathophysiology II [3-0]

spring

This course provides a systematic approach to the physiologic basis for disease. The general pathology is presented along with the disease processes of systems including the gastrointestinal, neurologic, renal, urinary, reproductive, musculoskeletal, and immunological systems. Disease entities in each organ system are studied with regard to causation, evaluation, and morphology of pathological changes. This course is a complement of PHAS 5306, Medical Physiology and Pathophysiology I

Prerequisite: PHAS 5306

PHAS 5310 The Art of Medicine Through the Humanities[3-0]
as scheduled

This topical course explores the connection between the humanities and the practice of medicine. Students will utilize participation, observation and description to enhance their diagnostic and communication skills. The foundation of the course will be student-centered discussions and presentations. Course topics may include fine art, music, dance, film and/or literature. The student will learn a variety of approaches to exploring and describing the humanities with the goal of applying these same skills to the practice of medicine. Location of the course will be both on and off campus. Students need no previous training in the arts to participate. This is an elective course.

PHAS 5318 Introduction to Clinical Medicine I

[3-0]

fall

Emphasis has been placed on the integration of the essential anatomy, physiology, pathology, microbiology, pharmacology, and medical terminology relevant to medical problems encountered in the primary care setting. The differential diagnosis of symptoms and physical findings along with interpretation of laboratory and radiographic tests appropriate to each system is discussed. Topics in ICM I include problems of the respiratory tract, cardiology, endocrinology, hematology, dermatology, geriatrics, and surgery. Students will master the ability to generate a differential diagnosis specific to the patients' presenting complaints. Students will develop "best approach" in initiating a workshop including interpretation of diagnostic and laboratory data. A case-study format is used.

Prerequisite: Admission into the Physician Assistant Studies Program.

PHAS 5319 Introduction to Clinical Medicine II

[3-0]

spring

Emphasis has been placed on the integration of the essential anatomy, physiology, pathology, microbiology, pharmacology, and medical terminology relevant to medical problems encountered in the primary care setting. The differential diagnosis of symptoms and physical findings along with interpretation of laboratory and radiographic tests appropriate to each system is discussed. Topics in ICM II include problems of nephrology, gastroenterology, infectious disease, rheumatology, geriatrics, neurology, and obstetrics and gynecology. Students will master the ability to generate a differential diagnosis specific to the patients' presenting complaints. Students will develop "best approach" in initiating a workshop including interpretation of diagnostic and laboratory data. A case-study format is used.

Prerequisite: PHAS 5318

PHAS 5328 Pharmacology I

[3-0]

fall

This course represents a broad survey of the general principles of pharmacology. Included are the principles of pharmacokinetics and pharmacodynamics, the mechanisms of action, toxicities and interactions of specific drugs and drug groups, and an introduction to medical therapeutics. The physiologic basis and clinical characteristics of disease states relative to pharmacologic therapy will also be discussed. The objective of the course is to lay cognitive foundation in pharmacology and therapeutics that can be refined and applied in clinic practice. Promotes the ability to recognize untoward side effects of medications. Enables the student to calculate dosages, write prescriptions, discuss pharmacokinetics, and determine the appropriate medication for a particular disease. Emphasis is placed on pharmacotherapeutics of disease.

Prerequisite: Admission into the Physician Assistant Studies Program.

PHAS 5329 Pharmacology II

[3-0]

spring

The physiologic basis and clinical characteristics of disease states relative to pharmacologic therapy will be discussed. The objective of the course is to lay cognitive foundation in pharmacology and therapeutics that can be refined and applied in clinic practice to the common disease encounter in primary care. Treatment modalities including dosing and drug interactions will be discussed.

Prerequisite: PHAS 5328

PHAS 5407 Patient Evaluation

[3-3]

fall

Instructs the student in the proper use of instruments and techniques used in performing a physical examination of the patient. Connects data gathered from the history to the physical examination. Guides the student in organizing

history and physical examination details to present to the physician. Utilizes clinical settings and simulated patients and situations in the laboratory.

Prerequisite: Admission into the Physician Assistant Studies Program.

Co-requisite: PHAS 5225

PHAS 6431 Pediatric Rotation I

fall, spring, summer

This is a four-week general pediatric rotation that gives the student the opportunity to 1) elicit and record a complete pediatric history; 2) perform a complete examination; 3) formulate a management plan for common pediatric problems; 4) perform selected screening, diagnostic and treatment procedures as directed by the precepting physician; 5) advise and educate patients and their parents or guardians regarding optimal health of the child; and 6) monitor pediatric milestones.

Prerequisite: Successful completion of the didactic PHAS professional curriculum.

PHAS 6432 Pediatric Rotation II [0-0-4]

fall, spring, summer

This is a four-week general pediatric rotation that focuses on applying the knowledge gained in the Pediatric I rotation and focuses in increasing the core competencies of medical knowledge, patient care, and practice based-learning in the area of pediatrics.

Prerequisite: Successful completion of the didactic PHAS professional curriculum.

PHAS 6433 Obstetrics and Gynecology Rotation

[0-0-4]

fall, spring, summer

This is a four-week obstetrics and gynecology rotation that gives the student the opportunity to: 1) elicit, organize, record and present a complete data base on an obstetric or gynecologic patient; 2) assist the physician effectively in procedures unique to the discipline; 3) advise the obstetric patient in pre and post-natal care; 4) instruct patients on matters of common gynecological problems.

Prerequisite: Successful completion of the didactic PHAS professional curriculum.

PHAS 6435 Surgery Rotation I [0-0-4]

fall, spring, summer

This four-week supervised clinical course provides the student with hands-on experience in the operating room setting. Both pre-operative and post-operative assessment and care will be emphasized. The student will be assigned to a general surgeon in private practice, where, under supervision, he/she engages in a wide variety of activities in each phase of surgical intervention: pre-operative, operative, and post-operative recovery. The student is given opportunities to explore the basic considerations involved in the fluid, electrolyte, and nutritional management of the surgical patient, infections, wound healing, and wound care. Students participate in daily rounds, conferences, and serve on call.

Prerequisite: Successful completion of the didactic PHAS

professional curriculum.

PHAS 6436 Surgery Rotation II [0-0-4]

fall, spring, summer

This is a four-week surgery rotation in orthopedics surgery. The rotation will focus on out-patient and in-patient care of common orthopedic problems. The student will gain competence in evaluating pre and post-op patient care.

Prerequisite: Successful completion of the didactic PHAS professional curriculum.

PHAS 6440 Medicine Rotation I [0-0-4]

fall, spring, summer

This is a four-week general medicine rotation that gives the student the opportunity to: 1) elicit, organize and record necessary data; 2) present data in a comprehensive or problem oriented fashion; 3) order or recommend appropriate laboratory, radiologic or other diagnostic studies; 4) formulate a management plan for a particular patient problem; 5) follow patient progress by record review and periodic examination; 6) assist the physician in appropriate procedures; 7) advise and educate the patient about health maintenance issues; and 8) understand and establish emergency medical care when necessary. Students will be exposed to a variety of patients and medical conditions, such as infectious diseases, respiratory diseases, cardiovascular diseases, and psychiatric conditions.

Prerequisite: Successful completion of the didactic PHAS professional curriculum.

PHAS 6441 Medicine Rotation II [0-0-4]

fall, spring, summer

This is a four-week primary care medicine rotation that focuses on applying the knowledge gained in the Medicine I rotation and focuses in increasing the core competencies of medical knowledge, patient care, and practice based-learning in the area of primary care.

Prerequisite: Successful completion of the didactic PHAS professional curriculum.

PHAS 6442 Emergency Medicine [0-0-4]

fall, spring, summer

This is a four-week rotation that allows the student to develop skills in managing patients in the emergency room setting. These skills include those necessary for appropriate triage, stabilization, and initial management of patients with traumatic injuries and illnesses, the management of the less life threatening problems that present to the emergency room, working with the pre-hospital emergency medical service team, and making appropriate secondary referrals. Where possible, students participate in grand rounds, noon conferences and other clinically relevant didactic presentations. A set of cognitive objectives guides student reading in preparation for a written examination at the end of the rotation.

Prerequisite: Successful completion of the didactic PHAS professional curriculum.

PHAS 6443 Clinical Elective [0-0-4]
 fall, spring, summer
 This four-week elective rotation gives the student the opportunity to: 1) understand and manage complex problems in the particular discipline chosen; 2) understand how additional knowledge and skills can be beneficial in the primary care setting; 3) understand how to be a better server in a primary care setting. This course may include extended clinical care hours, emergency or hospital and community service as deemed appropriate by the precepting physician. Prerequisite: Successful completion of the didactic PHAS professional curriculum.

PHAS 7204 Capstone Research Experience [2-0-0]
 fall, spring, summer
 This course is designed to enable graduate-level physician assistant students to apply knowledge, concepts, and skills learned in previous education (PHAS 5117 - Evidence-Based Medicine and Medical Research Design). Physician Assistant students research and prepare a written paper on a topic of relevance to clinical medicine using the principles of evidence-based medicine. Students utilize data gathered during PHAS 7401, 7402, and 7403 to plan, formulate, write and report their findings. Prerequisite: Completion of both Didactic and Clinical Year courses including PHAS 5117

PHAS 7205 Capstone Board Review [2-0-0]
 fall, spring, summer
 This course offers the physician assistant student a seminar designed for the synthesis of didactic and clinical education and training as it applies to preparation for the Physician Assistant National Certification Examination (PANCE). Test-taking skills and strategy are discussed. Students are evaluated using a simulated PANCE examination. Students must successfully complete the simulated PANCE examination in order to be certified to take the national PANCE examination. Prerequisite: Completion of both Didactic and Clinical Year courses or permission from PASP

PHAS 7401 Capstone Clinical Track I [0-0-4]
 fall, spring, summer
 This is an advanced clinical course designed to augment and update the existing clinical skills and knowledge of the primary care Physician Assistant. Learning objectives will focus on increasing the core competencies for the PA profession with focus on the medical knowledge competency in the area of medical concentration track the student has chosen. Prerequisite: Completion of both Didactic and Clinical Year courses

PHAS 7402 Capstone Clinical Track II [0-0-4]
 fall, spring, summer
 This is an advanced clinical course designed to augment and update the existing clinical skills and knowledge of

the primary care Physician Assistant. Upon completing this course, students will be able to understand and clinically apply the core competencies of interpersonal and communication skills as well as patient care in the area of medical concentration track the student has chosen. Evaluation of advanced case studies and discussions highlight this area of concentration. Prerequisite: Completion of both Didactic and Clinical Year courses

PHAS 7403 Capstone Clinical Track III [0-0-4]
 fall, spring, summer
 This is an advanced clinical course designed to augment and update the existing clinical skills and knowledge of the primary care Physician Assistant. Upon completing this course, students will be able to understand and clinically apply practice base and system base practice competencies in the area of medical concentration track the student has chosen. Evaluation of "best practice" case studies and discussions highlight this area of concentration. Prerequisite: Completion of both Didactic and Clinical Year courses

PHAS 7415 Bridge Clinical Track I
 fall, spring, summer
 This is an advanced clinical course designed to augment and update the existing clinical skills and knowledge of the primary care Physician Assistant. Learning objectives will focus on increasing the core competencies for the PA profession with focus on the medical knowledge competency in the area of medical concentration track the student has chosen.

PHAS 7416 Bridge Clinical Track II
 fall, spring, summer
 This is an advanced clinical course designed to augment and update the existing clinical skills and knowledge of the primary care Physician Assistant. Upon completing this course, students will be able to understand and clinically apply the core competencies of interpersonal and communication skills as well as patient care in the area of medical concentration track the student has chosen. Evaluation of advanced case studies and discussions highlight this area of concentration.

PHAS 7417 Bridge Clinical Track III
 fall, spring, summer
 This is an advanced clinical course designed to augment and update the existing clinical skills and knowledge of the primary care Physician Assistant. Upon completing this course, students will be able to understand and clinically apply practice base and system base practice competencies in the area of medical concentration track the student has chosen. Evaluation of "best practice" case studies and discussions highlight this area of concentration.

PHAS 7418 Bridge Research Experience
 fall, spring, summer
 This course acquaints the student with the philosophy and principles of the research process with emphasis on scientific

methods of inquiry. Students will have the opportunity to evaluate current literature from the medical journals in light of research design and data collection. This course introduces student to the concepts of evidence-based medicine and medical research design, while stressing the examination of evidence from clinical research as a basis for clinical decision-making. Physician Assistant students learn how to construct well-built clinical questions based on patient problems and to perform medical literature searching strategies that yield optimal results. As a capstone, students research and prepare a written paper on a topic of relevance to clinical medicine using the principles of evidence-based medicine. Students utilize data gathered during their clinical Track I, II, and III senior capstone (PHAS 7415, 7417, and 7418) to plan, formulate, write and report their findings.

Prerequisite: Acceptance to Bridge program

Note: Only Bridge program students are eligible for this course.

Philosophy

PHIL 5350 Social and Political Philosophy [3-0]

fall, spring, summer

This course is an exploration of social and political philosophy. The focus will be geared towards giving graduate students the philosophical background in key areas of social and political philosophy that they will need to be successful in producing research. Topics will vary and may include particular kinds of political systems (liberalism, marxism, anarchism) or different kinds of social analysis (poststructuralism, critical theory, political economy)

PHIL 5363 Contemporary Continental Philosophy

[3-0]

fall, spring, summer

This course is designed to explore recent French and German philosophy in an interdisciplinary context. The work of poststructuralism, deconstruction, and postmarxism may be considered in their impact on a wide variety of fields including (but not limited to) philosophy, history, literature, psychology, the social sciences, and science in general. Particular authors may include Foucault, Derrida, Bourdieu, Badiou, Agamben and others. Themes may include knowledge, discourse, truth, power, difference, class, race, sex, and sexuality.

PHIL 6391 Ethics of Biological Research [3-0]

This course is designed to offer students pursuing an advanced degree in research the critical thinking tools, the basis in ethical theory and the familiarity with important case studies and issues that will aid in making ethically-informed decisions in their future profession. The topics studied may include, but are not limited to, plagiarism and fraud, ownership of data, animal testing, placebo use, cloning, research errors and moral motivation.

PHIL 6395 Special Topics in Philosophy [3-0]

A study of selected issues or figures in philosophy; content will vary. May be repeated for up to 9 hours credit as content changes and if the name of the course is distinct.

Physics

PHYS 5404 Physics by Inquiry I [3-3]

fall

Physics by Inquiry is a set of laboratory-based modules that are specifically designed to prepare prospective and practicing teachers (K-12) to teach science as a process of learning by discovery. The modules are also suitable for liberal arts students and for under-prepared students who aspire to science-related careers. Physics by Inquiry I emphasizes the process of science rather than the presentation and explanation of facts. This course will deal with mechanics, thermodynamics and wave motion.

Prerequisites: PHYS 1402 or consent of instructor.

PHYS 5405 Physics by Inquiry II [3-3]

spring

Physics by Inquiry II is a set of laboratory-based modules that are specifically designed to prepare prospective and practicing teachers (K-12) to teach science as a process of learning by discovery. The modules are also suitable for liberal arts students and for under-prepared students who aspire to science-related careers. Physics by Inquiry II emphasizes the process of science rather than the presentation and explanation of facts. This course will deal with electricity, magnetism and modern physics.

Prerequisites: PHYS 5404 or consent of instructor.

PHYS 6301 Topics in Physics for Teachers

spring

A course that incorporates many different topics in physics. Guest lectures, student participation and basic concept presentation will be utilized to teach each topic.

Prerequisites: Consent of instructor or PHYS 5404.

PHYS 6302 Environmental Physics for Teachers

spring

An enhanced understanding of environmental concepts and principles regarding pollution, air, water and waste management. The course will also address local issues and resources to help teachers provide students with opportunity for real world critical thinking and problem-solving. The course will include in-depth industry site visits and guided field trips to environmentally sensitive areas. Both renewable and non-renewable energy resources with the concept of energy conservation, waste management and disposal methods will be emphasized. Prerequisites: Consent of instructor or PHYS 5404.

PHYS 6303 Quantum Information

as scheduled

The Heisenberg uncertainty principles and implications. Observation and measurement. Introduction to quantum mechanics, four quantum numbers and hands-on experiment will be provided. The Schrodinger Equation and its application to bound and free particles, the hydrogen atom. Prerequisite: PHYS 3402 or PHYS 6400 or consent of instructor.

PHYS 6400 Astronomy by Sight

fall

Astronomy by Sight is a set of laboratory-based modules that are specifically designed to prepare prospective and practicing teachers (K-12) to teach science as a process of learning by discovery. The modules are also suitable for liberal arts students and for under-prepared students who aspire to science-related careers. Astronomy by Sight emphasizes the process of science rather than the presentation and explanation of facts. This course will deal with the sun, moon and stars, which will help predict and explain daily/monthly changes in the appearance of the sky. It will also deal with the earth, solar system and possibility of extraterrestrial life.

Prerequisites: PHYS 5405 or consent of instructor.

Psychology

PSY 6174 Special Topics in Psychology: Journal and BCBA Review

This course is designed to monitor progress of students in the BCBA concentration of the M.A. Experimental Psychology program and to provide a format to review recent literature in Applied Behavior Analysis. May be repeated as topics change.

PSY 6274 Special Topics in Psychology

Selected topics in psychology under the supervision of one or more faculty. May be repeated as topics change.

PSY 6301 Advanced Psychological Statistics [3-0]

fall, spring

This course will provide an advanced introduction to statistical methods commonly used in psychological science.

PSY 6305 Advanced Studies in Psychopathology [3-0]

fall, spring

A study of the classification, etiology and treatment of abnormal behaviors. Supporting outside readings will be emphasized.

PSY 6311 Advanced Studies in Personality Theory [3-0]

fall, spring

The theories and approaches reviewed are the foundations of

conceptualizing personality development and change; they are foundations of therapeutic interventions and methods of assessing personality structure and process.

PSY 6315 Applied Behavior Analysis [3-0]

fall

Principles and techniques of modifying behaviors across therapeutic, institutional, and natural settings. Following a review of behavioral principles and functional analysis, practical, educational, and clinical aspects of behavior interventions will be emphasized.

Prerequisite: PSY 6325.

PSY 6320 Current Perspectives in Physiological Psychology [3-0]

fall, spring

In-depth study of the relationship between biological events and behavior. Emphasis is placed on the physiological substrates of learning, memory, emotion and motivation.

PSY 6325 Conditioning and Learning [3-0]

fall

A study of the principles of laws of respondent and operant conditioning in determining behavior. Emphasis will be placed on the experimental analysis of behavior with attention to other learning theories that have been extensively studied in the laboratory and productively applied to problems of human behavior. Laboratory experience is required.

PSY 6326 Theoretical Issues in Learning [3-0]

fall, spring

A survey of theoretical perspectives in learning. Historical as well as contemporary issues will be emphasized.

PSY 6330 Developmental Psychology [3-0]

fall, spring

The study of growth and development processes throughout the life cycle. Physical, social and psychological factors involved in life changes are addressed. An overview, as well as selected current special topics within lifespan human development are addressed.

PSY 6332 Research Design [3-0]

fall

Overview of single and multiple factor correlational and experimental designs and their analysis. The course covers various central design issues including control, internal and external validity, group comparisons and small-n designs.

PSY 6336 Advanced Psychological Measurement [3-0]

spring

Reviews current theoretical and technical aspects of test construction focusing on standardized tests used in industry and health care settings. Instruction and practice in standardized test administration and scoring, with emphasis on the Wechsler and achievement tests.

Prerequisite: Admission to a graduate program in psychology.

PSY 6340 Multicultural Mental Health [3-0]
fall (when offered)

The course emphasizes the major areas of current research on cross-cultural psychology; these include the study of personality across cultures, Western and non-Western definitions of abnormal behavior and international research on attitudes and values.

PSY 6348 Biofeedback and Self-Regulation [3-0]
as scheduled

An examination of the current research, theory and applications of autonomic self-regulation and its implications for behavior medicine.

PSY 6350 Behavioral Assessment [3-0]
fall

Theory and methods of the behavioral measurement and assessment of individuals and systems with an emphasis on direct observation of overt behavior, environmental assessment, functional analysis, task analysis, needs assessment, experimental analysis of behavior, program monitoring, and evaluation.

PSY 6351 Psychological Assessment [3-0]
fall

This course reviews principles of test construction and provides instruction and practice in standardized test administration and scoring, with emphasis on intellectual assessment.

Prerequisite: Admission to a graduate program in psychology.

PSY 6352 Personality Assessment [3-0]
fall, spring

Development of personality testing. Study and administration of personality assessment techniques.
Prerequisites: PSY 6311, PSY 6305

PSY 6354 Individual Psychotherapy [3-0]
fall, spring

Reviews current and historical approaches to psychotherapy. Instruction and practice in techniques of individual psychotherapy, case presentation and report writing.
Prerequisites: PSY 6305 and admission to a graduate program in Psychology.

PSY 6355 Psychology and Mythology [3-0]
as scheduled

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. Previous Course Number: PSY 5355; a student may receive credit in only one course. Equivalent Course: May be counted as ANTH 6355; a student may receive credit in only one course. Prerequisites:

six hours of psychology and consent of instructor.

PSY 6356 Group Psychotherapy [3-0]
as scheduled

Instruction and practice in techniques of group psychotherapy.
Prerequisites: PSY 6305 and PSY 6311.

PSY 6362 Psychopharmacology [3-0]
as scheduled

The course is an introductory course in psychopharmacology for mental health providers working with mentally ill clients. The focus of the course is to expose participants to basic principles of pharmacology, common medications used in the treatment of mental illness and the most common side effects of these agents. Critical thinking skills for determining the need for referral for medication management, identification of side effects of medications and ethical issues in the use of medication will be discussed.
Prerequisite: PSY 6305 Advanced Topics in Psychopathology or comparable course.

PSY 6363 Contemporary Professional Issues and Ethics in Psychology [3-0]
fall

Mastering principles in the practice of professional psychology according to the ethical standards established by the American Psychological Association and American Counseling Association with attention to related legal issues as well as the specific guidelines for responsible conduct and disciplinary standards as articulated by the Behavioral Analyst Certification Board.

PSY 6364 Clinical Practicum
fall, spring

Application of psychological tests and psychotherapeutic procedures. Repeated twice for credit.
Prerequisites: Completion of core curriculum and designated electives for Clinical Psychology.

PSY 6365 Applied Behavior Analysis Practicum I [3-0]
fall

Placement and supervised experience of applied behavior analysis and intervention in an educational, family, institutional, or clinical practice site. May be repeated five times for credit.

PSY 6367 Applied Behavior Analysis Practicum II [3-0]
fall

Placement or continuation of supervised experience of applied behavior analysis and intervention in an educational, family, institutional, or clinical practice site.

PSY 6368 Internship

fall, spring

Application of psychological tests and psychotherapeutic procedures in a clinical setting. Provided as a capstone training experience for the Masters of Arts in Clinical Psychology.

Prerequisites: Consent of instructor.

PSY 6374 Special Topics in Psychology [3-0]

as scheduled

Selected topics in psychology. May be repeated for credit when topic varies.

PSY 6376 Directed Studies

as scheduled

Individual readings and/or research on a selected topic under the supervision of a faculty member with whom specific arrangements have been made. May be repeated for a maximum of six hours credit.

Prerequisite: Permission of instructor.

PSY 7172 Thesis II

fall, spring

Conduct original research initiated in PSY 7370 for students who have not yet completed the thesis requirement.

Prerequisite: Consent of instructor.

PSY 7370 Thesis I

Design and complete a proposal for original research, approved by the thesis advisor and thesis committee. A grade of "credit" is assigned only after formal approval of the thesis. If a grade of "non-credit" is awarded, re-enrollment in the course is required.

Prerequisite: Permission of instructor.

PSY 7372 Thesis II

Conduct and complete original research proposed in Thesis I, approved by the thesis advisor and thesis committee. A grade of "credit" is assigned only after formal approval of the thesis. If a grade of "no credit" is awarded, re-enrollment in the course is required.

Prerequisite: Permission of instructor.

Public Administration

PUBA 6301 The Public Administration Profession

as scheduled

A survey of the theories and practices that 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.

PUBA 6302 Graduate Seminar in Public Administration**[3-0]**

as scheduled

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

PUBA 6303 Ethics for Public Service

A study of the fundamental principles and duties related to ethical and professional expectations of public service managers and employees. Constitutional and legal values, accountability bureaucratic discretion and professionalism will be considered.

PUBA 6304 Intergovernmental Relations [3-0]

as scheduled

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.

PUBA 6305 Problems in State and Local Government [3-0]

as scheduled

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.

PUBA 6307 The Politics of Scarcity

An examination of the major public policy issues and theories involved in crisis areas of poverty, declining natural resources, arable land, water and inadequate food supplies; amidst government financial shortfalls, increasing population and threaten environment.

NASPAA Area B: Public Policy Analysis

PUBA 6309 Introduction to Planning

Introduction to planning theory and practice, basic planning methods and the planning profession. Analysis of urban community and regional planning organizations and the social, economic and political structure and functions that address economic and population growth problems.

PUBA 6311 The Formulation of Public Policy [3-0]

as scheduled

An analysis of the impact of public policy on the political environment. Several policies will be studied and analyzed regarding their formulation and implementation.

PUBA 6312 Policy Implementation and Program Evaluation [3-0]

as scheduled

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

PUBA 6320 Public Finance Administration [3-0]
as scheduled

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.

PUBA 6321 Public Personnel Administration [3-0]
as scheduled

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 and interpersonal and ethical relationships will be studied.

PUBA 6322 Introduction to Community Development

Theory and practice of urban, community and regional development and analysis of the social, economic and political organizations involved in community, economic and population growth problems.

PUBA 6323 Management of Governmental Information Systems

A study of the theoretical assumptions, conceptual foundations and design and implementation of computer-based governmental information systems.

PUBA 6327 Management of Non-Profit Organizations

Study of the management of non-profit organizations. Community-based, not-for-profit, and non-governmental (private) organizations have grown and developed impressively in recent years providing a multitude of social and economic programs. These organizations and programs will be studied.

NASPAA Area D: Analytical Tools

PUBA 6330 Scope and Methods in Public Administration [3-0]
as scheduled

Analytical methods, research techniques and models of inquiry in the study of public administration.

NASPAA Area E:

Individual-Group-Organizational Behavior

PUBA 6341 Political Leadership: Decision-Making and Management in Public Organizations [3-0]
as scheduled

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.

PUBA 6342 Bureaucracy and Organizational Theory [3-0]
as scheduled

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

PUBA 6325 The Internship
as scheduled

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.

PUBA 6361 Directed Research

Requires approval of supervising faculty member. Intensive research of a contemporary topic in public administration. A proposal, including appropriate time lines, will be submitted to and approved by the supervising faculty member. May be repeated once for credit if topic changes.

PUBA 6362 Independent Study

Requires the approval of the supervising faculty member. Allows student to work independently on a specialized area. The student will submit a written plan, with outcomes and time lines which must be approved by the supervising faculty. May be repeated once for credit if topic changes.

PUBA 6363 Special Topics

Intensive study of a specialized area of public administration or a selected topic in contemporary public management. May be repeated once for credit if topic changes.

**PUBA 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.

**PUBA 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 that 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.

Quantitative Methods

QUMT 6303 Statistical Foundations [3-0]

as scheduled

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.

QUMT 6310 Business Research Foundations [3-0]

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: QUMT 6303 or QUMT 3343.

Reading

READ 6308 Foundations of Reading I [3-0]

as scheduled

This course examines major theories of reading, the influence of culture on literacy, and emerging areas of literacy research.

READ 6309 Foundations of Reading II [3-0]

as scheduled

This course builds on READ 6308, Foundations of Reading I. Students examine read alouds, shared reading, guided reading and process writing. Students apply this knowledge to practice in K-12 classrooms.

READ 6310 Children's and Adolescent Literature [3-0]

as scheduled

This course is designed to provide a broad knowledge of quality children's and adolescent literature. Participants will explore theoretical perspectives related to children's and adolescent literature such as transactional theory and critical literacy. Participants will also engage with methods for using literature in the reading classroom.

READ 6313 Linguistics for Reading Teachers

fall

This course examines how aspects of linguistics relate to teaching students reading, spelling, phonics and grammar. Areas of linguistics covered include phonology, morphology

and syntax. The course also considers how linguistic theory has informed ESI theory and methodology.

READ 6320 Integrating Writing in the Reading Classroom [3-0]

spring

This course examines the integration of reading and writing processes. Participants will explore the interconnections between reading and writing, how to use writing to support reading comprehension, strategies for teaching writing in K-12 reading classrooms and writing across the curriculum.

READ 6323 Teaching the Struggling Reader [3-0]

as scheduled

This course is concerned with underlying reasons some students struggle with reading and what teachers can do to support these students. Participants will explore why readers may have difficulty and what curricular structures and teaching strategies can help them.

Prerequisite: ED 6308.

READ 6325 Practicum in Reading

as scheduled

Participants will examine the multiple facets of the Reading Specialist, from identifying and working with readers who need extra help to being a literacy leader in their schools and communities. They will particularly focus on the process of mentoring and providing appropriate professional development.

Prerequisite: ED 6329.

READ 6329 Reading Assessment 3-0

as scheduled

Participants will explore various forms of formal and informal assessments suitable to the reading classroom. They will learn to develop or select, administer, and interpret appropriate assessments. Participants will also learn how to make instructional decisions based on the results of these assessments.

Prerequisite: ED 6323.

READ 6351 Teaching Content Area Reading [3-0]

fall

Participants will examine the literacy needs of adolescents and literacy demands in the content areas. This course also introduces research based strategies to support content area reading at all grade levels, especially when working with English Language Learners and struggling readers.

Rehabilitation Counseling

REHS 6300 Introduction to Rehabilitation Foundations [3-0]

An introduction to the broad field of human rehabilitation. Study includes historical, legislative and organizational bases;

rehabilitation process; personnel standards and types of rehabilitation facilities.

REHS 6310 Case Management in Rehabilitation [3-0]

Procedures and processes in individualized case planning, recording, management and reporting systems used by rehabilitation professionals in providing and coordinating available services to persons with disabilities. Emphasis is upon the rehabilitation process, the professional/client relationship and interviewing techniques. Focus is upon case management in public, private and medical rehabilitation settings.

REHS 6315 Research in Rehabilitation [3-0]

An exploration of qualitative and quantitative research methods and experimental designs with specific application to research in rehabilitation. Students will also demonstrate skills in the application and interpretation of statistical procedures utilizing a statistical software package.

REHS 6320 Psychosocial Aspects of Disability [3-0]

The course examines the psychological and social aspects of individual and family adjustment to disability and chronic illness. Included are findings in research on the adjustment process and on the relationship of psychological and social variables to the acquisition and maintenance of health.

REHS 6325 Group Counseling in Rehabilitation [3-0]

Group counseling with people with disabilities will address the approaches in group counseling with the different disability groups. The role of the counselor in group counseling will be emphasized. The course will include instruction and practice in the application of group procedures and processes as they apply to people with disabilities.

Prerequisite: REHS 6360.

REHS 6330 Assessment and Vocational Evaluation [3-0]

Introduction to vocational assessment with focus on measurement concepts, procedures and practices used in conducting a systematic appraisal of individuals with handicapping conditions resulting from age, disease and trauma.

REHS 6345 Medical Aspects of Disability [3-0]

Advanced studies in medical conditions most frequently encountered by rehabilitation professionals. A detailed study of the medical resources employed by professionals assisting people with disabilities will occur. Students will learn about the diagnosis, prognosis and vocational implications of various disabilities.

REHS 6350 Job Placement Theories and Methods [3-0]

Provides an overview of job placement based on a systems perspective. Students will have an opportunity to explore various job placement philosophies, programs and techniques as well as to gain hands-on experience in job analysis, labor

market analysis and career exploration.

REHS 6360 Counseling Theories in Rehabilitation Counseling [3-0]

Study of major counseling theories and techniques with focus on principles and competencies in rehabilitation counseling, including special applications and modifications that may be required in counseling persons with mental, physical or emotional disabilities.

REHS 6370 Techniques in Rehabilitation Counseling [3-0]

Study of current techniques utilized in rehabilitation counseling and rehabilitation client services. Structured learning experiences for development of competencies in utilization of the techniques with rehabilitation clients. Prerequisite: REHS 6360.

REHS 6375 Psychiatric Rehabilitation [3-0]

The purpose of this course is to introduce the basic concepts of abnormal psychology and to facilitate understanding of the principles of psychiatric rehabilitation as it relates to working with individuals with mental disorders and other disabilities. The course is also designed to teach students specific concepts, skills and competencies required to differentiate between normal human growth and development and abnormal human behavior and symptoms using the DSM-IV-TR.

REHS 6380 Special Topics in Rehabilitation [3-0]

Selected topics in rehabilitation. May be repeated for a maximum of nine credit hours when the topic varies.

REHS 6390 Practicum [3-0]

A minimum of 100 clock hours of supervised experiences in a clinically-based rehabilitation counseling setting under the supervision of qualified rehabilitation faculty. Includes a one-hour-per-week seminar in ethics and standards of practice in rehabilitation, as well as regularly scheduled weekly meetings for individual and group supervision.

Prerequisites: REHS 6300, REHS 6360, REHS 6370, or program permission.

REHS 7100 Independent Study

Individualized study and investigation of a rehabilitation topic under the direct supervision of a faculty member. A minimum of 25 clock hours per credit hour is required. May be repeated a total of two times.

Prerequisite: Consent of instructor.

REHS 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 presented and defended through a formal review process that includes a committee comprised of the academic advisor and two

graduate faculty.

REHS 7302, 7303 Research Grant Project

A problem-oriented and applied research grant project. The applied research grant project requires the student to 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. The applied research grant project will be presented and defended through a formal review process that includes a committee comprised of the academic advisor and two graduate faculty.

REHS 7310 Research Topics in Rehabilitation [3-0]

spring

Current research topics, trends, and research techniques will be examined including both quantitative and qualitative methodologies. This course will serve as the capstone research course focusing previously learned statistical analyses and methodologies into a rehabilitation counseling focus.

Prerequisites: EPSY 6350, 6351, 6352 or consent of the instructor.

REHS 7353 Seminar in Forensic and Private Rehabilitation [3-0]

summer I

Students will be introduced to the field of forensic rehabilitation in the private sector. An understanding of forensic vocational assessment and life care planning in litigation is presented as well as vocational expert testimony with the Social Security Administration. Students learn and demonstrate the basic skills in performing forensic vocational assessments and life care plans using case studies. A field based observation experience is included.

REHS 7354 Seminar in Assistive Technology [3-0]

summer I

This didactic course introduces students to a variety of assistive devices and technologies available for persons with physical, cognitive and sensory disabilities. In-class learning involves the functional limitations of various disabilities and how assistive technology enables persons at work, home or play. The psychosocial considerations for persons who need to rely on technology will also be addressed. Students will also explore assistive technology web sites online for a variety of disabilities. Students will learn how to use various devices.

REHS 7355 Seminar in Addictions [3-0]

summer I

This course focuses on the models of addiction, assessment, treatment planning, aspects of behavior change, program planning and evaluation, and counseling issues. Harm reduction and dual diagnosis are explored. Students additionally explore advanced concepts and state-of-the-art treatment modalities in the area of addictions. Issues to be discussed include ethics, pharmacology, advanced medical

treatment, medication issues and family cultural issues.

REHS 7357 Seminar in Assessment [3-0]

summer I

This course focuses on the principles, methods, and theoretical foundations of psychological and vocational assessment, with emphasis on psychological tests and measurements. Topics to be examined include intelligence, achievement, personality, behavior, and emotional functioning among persons with disabilities. Career guidance and placement factors will also be investigated. In addition, testing issues relating to standardization, validity, and test reliability in a multicultural society will be explored.

REHS 7600 Internship in Rehabilitation [6-0]

A 600-hour applied experience in the student's area of specialization in a rehabilitation agency or facility external to the University. Includes a one hour-per-week seminar and group supervision meeting.

Prerequisites: Completion of all required coursework and practicum or program approval.

REHS 8101 Independent Study [1-0]

summer I

This course involves prior approval with a professor who is able to work one-to-one with a student on a concentrated area of study or desired specialization. May be repeated for up to nine hours.

REHS 8300 Seminar in Dissertation Writing [3-0]

summer II

This course introduces students to the dissertation writing process and procedures. Stages of dissertation development, university approvals for using human participants, generating ideas for the dissertation and weighing the feasibility of various ideas are discussed.

REHS 8311 Seminar in Rehabilitation Research and Publication [3-0]

spring

Examines contemporary studies in rehabilitation research with an emphasis on critically analyzing studies of individual interest. An introduction to journal editorial board manuscript review will be discussed with case samples for critically reviewing. Students will also demonstrate researching and writing ability by either co-authoring or solely existing research with faculty or developing a conceptual paper for publication.

REHS 8312 Advanced Counseling Practices I [3-0]

fall

This in-class course offers an in-depth, advanced understanding of the major theories and techniques used for counseling persons experiencing developmental crises and severe psychopathology. The course is designed to provide students with an opportunity to integrate theory and research, using a brief, solution-focused approach to counseling detailing the most prominent of mental health disorders. Crisis intervention techniques will also be

examined.

REHS 8313 Rehabilitation Administration and Grant Management [3-0]

spring

This course explores the critical role of management skills in human services. Students will gain an understanding of management styles, delegating effectively, conflict resolution strategies, organizational psychology principles, performance evaluations, personnel decisions, mentoring and fiscal responsibility decision-making. Students will also shadow a human services program director as well as be required to develop a proposal for a not-for-profit organization.

REHS 8314 Supervised Teaching Experience [3-0]

fall

Under the supervision of advising faculty, students will teach an undergraduate class by preparing and delivering various lectures for a specified course. Students will demonstrate teaching skills using a variety of multimedia modalities as well as other didactic teaching methods.

REHS 8315 Intern Supervision Experience [3-0]

summer II

Under the supervision of advising faculty, students will supervise undergraduates or graduates performing their internship. Students will learn necessary accreditation standards criteria for supervising student interns and learn procedures and strategies in the process.

REHS 8317 Advanced Counseling Practicum II [3-0]

spring

Students will spend a minimum of 12 hours a week in a public or private mental health agency field placement pre-approved by the Program Coordinator. Each student will carry a caseload of 4-6 clients whose presenting concerns range from developmental issues to severe psychopathology. Students will be responsible for conducting client intakes; developing treatment plans; providing individual, group, and couples therapy; and completing paperwork and other case management functions. Students will be required to attend didactic supervision.

REHS 8318 Distance Education Teaching Experience I [3-0]

spring

This course involves an introduction to, and the development of, a web-based course in rehabilitation counseling. Students will learn either WebCT or Blackboard with Bobby approval development technology to develop a course utilizing University computer professional staff.

REHS 8356 Distance Education Teaching Experience II [3-0]

summer I

This course involves co-teaching a distance education course via web-based technology. Experience involves updating curriculum and syllabus online, conducting chat rooms,

administering assignments and exams, and evaluation of the course.

REHS 8600 Counseling Internship [6-0]

summer I

A supervised 600 hour counseling internship is available to students as an elective for those non-masters in rehabilitation counseling students who wish to become certified as rehabilitation counselors under Category I of the eligibility standards for the Commission on Rehabilitation Counselor Certification.

REHS 9190 Dissertation [1-0]

fall, spring, summer

Dissertation (1 hour ongoing until completed, if needed)
Prerequisites: all coursework

REHS 9390 Dissertation [3-0]

fall, spring, summer

Dissertation (1 hour ongoing until completed, if needed)
Prerequisites: all coursework

REHS 9690 Dissertation [6-0]

fall, spring, summer

Dissertation (must be repeated twice for 2 semesters)
Students will choose an advisor and dissertation committee in their second semester of the program. The dissertation consists of a minimum 12 hours of comprehensive qualitative or quantitative research on an agreed-upon topic in the field of rehabilitation counseling and working with persons with disabilities.
Prerequisites: all coursework

Interdisciplinary Science

SCIE 6301 Integrated Science Concepts [3-0]

as scheduled

Students in this course will investigate many of the basic concepts in biology, chemistry and physics that undergird the natural sciences. As a result of understanding these concepts, students will be able to apply an integrated, interdisciplinary approach to solve science problems and communicate scientific ideas. May be repeated for credit if the topic is different.

SCIE 6302 Science and Technology in Society [3-0]

as scheduled

This course will assess scientific and technological developments and their consequences and the ethics and public policy decisions that face humankind. May be repeated for credit if the topic is different.

SCIE 6303 Recent Developments in Applied Science [3-0]

as scheduled

This course addresses recent developments in the natural

sciences. Specific topics will vary based on the needs of students. Course may be repeated for credit if the topic is different.

Sociology

SOCI 6300 Graduate Statistics [3-0]

as scheduled

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: Three hours of undergraduate statistics or consent of instructor.

SOCI 6301 Graduate Social Theory [3-0]

as scheduled

Examination of selected classical and contemporary sociological theories. Prerequisite: Three hours of undergraduate sociological theory or consent of instructor.

SOCI 6302 Graduate Quantitative Research Methods [3-0]

as scheduled

This course focuses on the problems and issues of survey research. Topics such as the formulation of research design, instrumentation, descriptive and exploratory research, cross-sectional and longitudinal methods, sampling inductive and deductive logic, unit of analysis and indexes and scales will be explored. Prerequisites: Sociology 6300 and 6301 or equivalent.

SOCI 6303 Graduate Qualitative Research Methods [3-0]

as scheduled

This graduate seminar focuses upon qualitative methods used to collect and analyze social data. The ethics of conducting this kind of research will be examined in-depth. The methods studied will include participant observation, in-depth interviews, historical analysis, focus groups and other recently introduced techniques such as sequential interviewing, deconstruction, discourse and conversation analysis and institutional talk.

Prerequisites: Sociology 6301 or consent of instructor.

SOCI 6304 Graduate Research Analysis [3-0]

as scheduled

This course is designed to help students incorporate material from key courses and seminars from the Sociology Master's Program into a research analysis project. This course provides mentoring and technical assistance to include how to select a research topic, formulate a problem statement and orient it to at least one sub-field of sociology, review related literature, choose a research method, describe the data analytic procedures, discuss results and complete a research analysis paper.

Prerequisites: Sociology 6300, 6301, 6302 and 6303.

SOCI 6310 Social Change [3-0]

as scheduled

This seminar provides graduate students the opportunity to acquire a background in the dynamic and growing subdiscipline of social change. In addition, this topic allows students to pursue a variety of individual interests within the broader context of studying social change. Also, the study of social change allows students to make a direct connection between theory and methods.

SOCI 6315 Graduate Social Topics [3-0]

as scheduled

Graduate seminar is 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 a maximum of nine hours credit as topics vary.

SOCI 6320 Survey of Graduate Sociology [3-0]

as scheduled

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.

SOCI 6325 Advanced Sociology of Sports [3-0]

as scheduled

Diverse sociological approaches will be applied to sporting issues. The course has a historical component by looking at the development of Olympic sports. We will use biographies of athletes to study social change, change in the level of technology and to see how this change impacted various aspects of sports. Some latest research evidence from scientific and scholarly journals will be presented to look at the trends in contemporary social issues in sports. The issues of drugs, sexism and racism in sports will also be explored.

SOCI 6340 Health Research and Policy [3-0]

as scheduled

Health policy is examined from a cross-cultural perspective. Emphasis is given to systematic comparisons among various health policy models in different countries, e.g., fee for service, socialized medicine, etc. Research methods employed in health-related studies, e.g., epidemiology, are introduced. Grant writing skills for health-related research are emphasized.

SOCI 6341 Health or Aging Topics [3-0]

as scheduled

Advanced issues in health and/or aging with special emphasis on epidemiology, methods, demography and theory. Emphasis is also given to ethnicity and health delivery systems. May be repeated for a maximum of nine hours credit as topics vary.

SOCI 6344 Social Demography [3-0]

fall, spring, summer

1. To acquaint students with the major demographic

perspectives on fertility, morality, and migration transitions. 2. To introduce the basic demographic methods such as the measurements of mortality, fertility and migration, and their calculation through readings, lecture, videos, in-class discussions, a mid-term exam and an independent research paper and its presentation. Students are expected to use the demographic perspectives/methods they have learned from this course to explain the demographic transition in the U.S. and the world and to have a better understanding of some of the key demographic issues in the U.S./Mexico border region.

SOCI 6345 Sociology of Poverty [3-0]

as scheduled

This graduate seminar focuses on the major structural causes of poverty and their social policy solutions. Correlates of poverty, including health, housing, educational attainment, transportation and political participation are also closely analyzed. While the focus of this seminar is the U.S.-Mexico borderlands, with special emphasis on the impact of immigration and maquiladoras, patterns and trends in global poverty are also examined.

Prerequisite: Consent of instructor.

SOCI 6350 Advanced Sociology of Education [3-0]

as scheduled

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: Nine hours of sociology or consent of instructor.

SOCI 6354 The Family and Society [3-0]

as scheduled

This course examines the institution of the family from a cross-cultural perspective, concentrating on problems like gender inequality, poverty and discrimination. The focus of the course is to obtain a better understanding of the family in the context of a changing society, especially in the border region.

SOCI 6358 Economic Sociology [3-0]

as scheduled

This course provides an overview of sociological approaches to economic phenomena. Particular emphasis is given to the development and growth of the informal economy sector, not only within the United States, but globally. The timely topics of ethnic and immigrant incorporation into the labor market and ethnic entrepreneurial ventures are investigated from a framework that considers the influence of labor market networks, social resources, cultural capital and human capital.

SOCI 6362 Mexican-American Society [3-0]

as scheduled

An analysis of history, culture, and structural relations of Mexican-Americans in U.S. society.

SOCI 6363 Borderlands and Inter-American Topics [3-0]

as scheduled

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 a maximum of nine hours credit as topics vary.

SOCI 6365 Program Evaluation [3-0]

as scheduled

Designed for current and future professionals in decision-making positions, the course examines research methods used for assessing organizations, e.g. educational, health, governmental, law enforcement, assessments of client needs, evaluating operations and ascertaining to what extent organizations are achieving their goals. Students will be required to design a multi-method evaluation of an organization of their choice, e.g. perhaps the organization where students work, but approved by the instructor.

Prerequisite: a graduate-level research methods course.

SOCI 7300 Thesis I

No credit assigned until thesis has been completed and filed.

SOCI 7301 Thesis II

No credit assigned until thesis has been filed.

SOCI 8306 Sociology of Education [3-0]

as scheduled

A survey of theory and empirical research to the sociological study of education. This seminar provides an analysis of the relationship of education, as an institution, to society and its patterns of order, change and conflict. Specifically, the seminar will examine such processes as bureaucratization, professionalization, minority adjustment, and discrimination, and the problems such processes create in education. The seminar will also look at education in a cross-national context, examining system of education along the Texas-Mexico Border, in Mexico, and in post-industrial societies. A research component helping participants build towards a dissertation project will be required.

Social Work

SOCW 6300 Human Behavior and the Social Environment: Individuals, Families and Small Groups [3-0]

as scheduled

This course focuses on the reciprocal relationships between social environments and human behavior with an emphasis on individuals, families and small groups. Multiple

theoretical and empirical perspectives are used to analyze the biological, psychological, social, cultural and spiritual dimensions of human development across the life span among diverse groups with an emphasis on at-risk and vulnerable populations. Attention is given to factors that contribute to risk and resilience and the role of social and economic justice in promoting human well-being.

SOCW 6301 Human Behavior and the Social Environment: Social Institutions, Communities and Organizations [3-0]

as scheduled

This course focuses on the reciprocal relationships between social environments and human behavior within large social systems. Theoretical and empirical perspectives are used to analyze the impact of the natural and physical environments, social structure, social institutions, communities and formal organizations on the well-being of diverse, at-risk and vulnerable populations. The course emphasizes processes of social change to challenge the inequitable distribution of power and resources.

SOCW 6302 Social Welfare Policy [3-0]

as scheduled

Examination of the dimensions of social welfare policy, including conceptual frameworks for understanding policy formulation and the analysis of social policies. Special emphasis on policy issues that affect service delivery to families.

SOCW 6303 Professional Values and Ethics [3-0]

as scheduled

Examination of the values of professional conduct in the practice of social work and the profession's Code of Ethics. Emphasis on ethical principles that guide practice. Examination of ethical dilemmas and the nature of professional and personal integrity in applying ethical principles.

SOCW 6304 Professional Empowerment [3-0]

as scheduled

Theories and concepts of enhanced social participation and empowerment of individuals, families, groups, institutions and communities in the promotion of structural change. Examination of frameworks to enhance equality, dignity and social justice. Models of individual, family and group determination, resilience and mastery.

SOCW 6311 Social Work as a Profession [3-0]

as scheduled

This course traces the philosophy and historical development of social work and presents a general overview of the social work profession. The basic knowledge, values, ethics, necessary for generalist social work practice, along with the many and varied roles and competencies in which social workers function across different fields of practice, will be presented. Students are introduced to social work's commitment to understand and appreciate human diversity; to understand and combat the dynamics and consequences

of social and economic injustice; to achieve individual and collective social and economic justice for populations-at-risk. Prerequisites: Graduate standing with admission to the MSSW Program.

SOCW 6315 Social Work with Diverse Populations [3-0]

fall, spring, summer

This course prepares students for effective professional intervention in a diverse world, and provides an understanding of how discrimination and oppression operate to limit the life opportunities of members of minority, vulnerable, at risk, and disenfranchised groups. A conceptual framework for understanding diversity, discrimination and oppression is presented and used to understand discrimination based on factors such as race, ethnicity, social class, gender, and sexual orientation. Selected theoretical perspectives are used to critically analyze the manifestations of discrimination and oppression and their impact on affected populations. Social world's responses to discrimination and inequality, including strategies for intervention, are also examined.

SOCW 6321 Generalist Social Work Practice I [3-0]

as scheduled

The course is an introductory course in direct practice methods and skills of social work intervention with individuals. Attention is given to the historic development of social work practice, the nature and application of social work values and ethical principles in practice, the theoretical frameworks of helping methods and the helping process of assessment, planning, intervention, termination and evaluation. Emphasis is on a generalist and ecosystems approach.

Prerequisites: Graduate standing with admission to the MSSW Program and/or permission of the instructor.

SOCW 6322 Generalist Social Work Practice II [3-0]

as scheduled

This course presents a systems-ecological perspective on social work practice with families and small groups. The course emphasizes using both identified strengths and evidence-based approaches to working with clients. Students will have the opportunity to learn skills and apply knowledge and ethics to case material. Prerequisite: SOCW 6321.

SOCW 6323 Generalist Social Work Practice III [3-0]

as scheduled

This course is designed to help students understand communities and the knowledge bases of social work generalist practice for interventions at this level. It provides an opportunity to explore selected macro models of practice and learn about human service organizations, which often serve as an immediate context for community practice. Prerequisites: Graduate standing with admission to the MSSW Program and SOCW 6321 taken concurrently with

SOCW 6670 or SOCW 6371.

SOCW 6330 Advanced Family Practice I [3-0]
as scheduled

This course, which is the first of two family practice courses, focuses on theories and evidence-based practice models for working with populations-at-risk. Family practice models are critiqued with respect to their efficacy for work with Latinos. The course builds on a generalist foundation which includes a theoretical framework for working with families. Prerequisites: SOCW 6322, completion of MSSW foundation curriculum or admission into the 33-hour program (advanced standing).

SOCW 6331 Advanced Family Practice II [3-0]
as scheduled

This course is taken concurrently with the concentration internship (SOCW 6375 or SOCW 6975) and focuses on the application of evidence-based family practice models with populations-at-risk. This entails formulating family assessments, developing treatment plans, establishing therapeutic relationships, applying intervention strategies and evaluating outcomes using relevant family therapy approaches that can also be adapted for work with couples and individual clients.

Prerequisites: SOCW 6330 Advanced Family Practice I.

SOCW 6332 Social Work Practice with Latinos [3-0]
as scheduled

Social work practice implications of the characteristics of the Latino population of the Southwest. The course will analyze distinctive practice in engagement, communication, and service with Latino clients, differential modalities and helping processes for clinical and macro practice with this population.

SOCW 6335 Advanced Clinical Assessment [3-0]
as scheduled

This course examines diverse ways to assess mental health functioning with an emphasis on understanding, analyzing and assessing mental disorders and formulating treatment plans according to the Diagnostic and Statistical Manual of Mental Disorders (latest edition). Attention is given to the significance of gender, race and ethnicity, age, sexual orientation and culture in assessing mental health and mental disorders. Assessment models are analyzed in terms of their consideration of biological, psychological, social, cultural and spiritual aspects of human behavior. Coping strategies, adaptation and resiliency are addressed in the assessment process and a strengths-based perspective is used in formulating treatment plans. Attention is also given to the role of psychopharmacology in treatment. Criticisms and debates regarding the DSM are addressed.

Prerequisites: Completion of foundation curriculum or admission into advanced standing program.

SOCW 6338 Foundations of Social Work [3-0]
as scheduled

The course is designed for students of the Advanced Standing Program to provide them with a review of the MSSW

foundation year curriculum content. The course is designed to help the student prepare for entry into the advanced year of the MSSW program and aid their adjustment to the rigors of graduate level academic study.

Prerequisites: Acceptance into the Advanced Standing Program and/or permission of the instructor.

SOCW 6360 Children's Mental Health [3-0]
as scheduled

This course presents a systems approach to children's mental health that includes theory, research, policy and practice perspectives. There is an emphasis on strength-based assessment and empirically-based interventions to help children with mental health concerns and their families.

Prerequisite: Graduate status.

SOCW 6370 Field Practicum I [6-0]
as scheduled

This course, which is the first of two foundation internships, requires completion of 200 clock hours in an approved field setting which prepares students for generalist social work practice.

Prerequisite: Approval of the Office of Field Education and completion of SOCW 6321, 6300 and 6311.

SOCW 6371 Field Practicum [6-0]
as scheduled

This course, which is a continuation of the first internship experience (SOCW 6370), requires completion of 200 clock hours in an approved field setting which prepares students for generalist social work practice. This course is taken concurrently with SOCW 6323.

Prerequisites: Approval by the Office of Field Education and completion of SOCW 6321, 6300, 6301, 6302, 6381, 6311 and 6322.

SOCW 6375 Advanced Field Practicum
as scheduled

This course, which is a continuation of the first internship experience (SOCW 6675), requires completion of 200 clock hours for a combined total of 500 hours. SOCW 6331

Advanced Family II is taken concurrently with this course.

Prerequisites include: SOCW 6675, 6330, 6335, 6395 and 6380.

SOCW 6376 Concentration Practicum
fall, spring

This practicum course requires completion of 250 clock hours in an approved field setting which prepares interns for family focused practice with Latino individuals and families. Course may be taken concurrently with SOCW 6377.

Prerequisites: Approval by the Office of Field Education and completion of SOCW 6330, 6332, 6335, 6338.

SOCW 6377 Concentration Practicum-
spring

This practicum course requires completion of 250 clock hours in an approved field setting which prepares interns for family focused practice with Latino individuals and families. SOCW 6376 and 6377 may be taken concurrently or SOCW

6376 can be taken first, followed by SOCW 6377. SOCW 6377 must be taken concurrently with SOCW 6331.
Prerequisites: Approval by the Office of Field Education and completion of SOCW 6330, 6332, 6335, 6338; any outstanding courses must be taken concurrently with this course.

SOCW 6380 Practice and Program Evaluation [3-0]
as scheduled

Interpretation of evaluative studies of social work interventions. Emphasis on the development of evaluative research methods relevant to practice and program evaluation and the evaluation of self in professional practice roles.

SOCW 6381 Research Designs and Applications [3-0]
as scheduled

Examination of the various scientific methods for research, with special attention upon survey research methodology, beginning practice assessment and the statistical application of related procedures, including correlations, T-test, Chi Square, analysis of variance and the visual presentation of data.

SOCW 6383 Directed Studies [3-0]
fall, spring, summer

Independent study designed to provide an opportunity for students to pursue directed readings or participate in research or special projects under faculty supervision.

SOCW 6391 Social Work in Barrios and Colonias [3-0]
as scheduled

Examines the nature of social work practice in unincorporated communities and the special challenges of social class and poverty.

SOCW 6392 International Social Work [3-0]
as scheduled

Examines comparative social welfare policies in various countries, with particular emphasis upon the structure and service delivery systems of social welfare ministries in Canada, the United States and Mexico.

SOCW 6393 Child Welfare [3-0]
as scheduled

Examination of current policies of government-sponsored child welfare programs and current issues in the service delivery aspect of practice with cases of child abuse and neglect.

SOCW 6394 Family Violence and Abuse [3-0]
as scheduled

Examination of the theories, concepts and skills for practice with families where battering or abuse has occurred, including models of effective prevention and intervention and treatment.

SOCW 6395 Supervision, Consultation and Administration [3-0]
as scheduled

Conceptual models and practice skills to manage and

administer social service agencies, including management information systems, fiscal management, personnel issues, legal concerns and public relations work, fund-raising and political networking. Examines and applies methodologies in human services administration and planning. Roles of professional planners and administrators are examined.

SOCW 6396 Gerontological Social Work [3-0]
as scheduled

Theory and knowledge for practice with older adults and their families. Content addressing family empowerment, advocacy, networking, accessing of services, family dynamics and caregiving, with special emphasis on the development of practice skills to work with older adults and their families toward fostering maximum independence of the elderly.
Prerequisite: Completion of foundation curriculum or admission into advanced standing program.

SOCW 6397 Spirituality and Social Work [3-0]
fall, spring, summer

This course examines perspectives on human well-being within diverse spiritual and religious traditions; models of spiritual development; the role of spirituality and religion in fostering well-being or contributing to the oppression of diverse, at risk, and vulnerable populations; and values and ethics for spiritually sensitive practice. Tools for spiritual assessment and spiritually-based interventions are explored.

SOCW 6399 Special Topics in Social Work Practice [3-0]
as scheduled

Examination of special topics in social work practice.
Prerequisite: Approval of faculty advisor and department chair.

SOCW 6670 Field Practicum I
as scheduled

This foundation internship course requires completion of 400 clock hours in an approved field setting which prepares students for generalist social work practice. Prerequisites: Approval by the Office of Field Education and completion of SOCW 6321, 6300, 6301, 6302, 6381, 6311 and 6322. Any outstanding foundations courses, along with SOCW 6323, must be taken concurrently with this course (SOCW 6670).

SOCW 6675 Advanced Field Practicum
as scheduled

This is the first of two internship courses. It requires completion of 300 clock hours in an approved field setting which prepares students for family focused practice with Latino individuals and families.
Prerequisites: Approval by the Office of Field Education and completion of SOCW 6330, 6332 and 6338.

SOCW 6975 Advanced Field Practicum II [9-0]
as scheduled

This concentration internship course requires completion of 500 clock hours in an approved field setting which prepares students for family focused practice with Latino individuals

and families. Course is taken currently with SOCW 6331. Prerequisites: Approval by the Office of Field Education; completion of SOCW 6330, 6332, 6335 and 6338; and any outstanding courses must be taken concurrently with this course.

Spanish

SPAN 6300 Bibliography and Research Methods

as scheduled

A study of research methods and major literary and linguistics sources. This course will culminate with the successful completion of a research project.

SPAN 6301 Fundamentals of Spanish Linguistics [3-0]

fall

Introduces students to fundamental issues in the field of Spanish linguistics and increases awareness of the processes involved in linguistic analysis and theory building. Covers topics in Spanish phonology, Spanish morphology, Spanish syntax and pragmatics and Spanish sociolinguistics.

SPAN 6302 Literary Criticism and Cultural Theory [3-0]

fall

Covers the main theoretical approaches to literary and cultural phenomenon in their textual and contextual dimensions. Analyzes contributions from Aristotle to the present giving special attention to the critical approaches of the 20th and 21st centuries.

SPAN 6307 Advanced Spanish Grammar and Composition for the Classroom Teacher [3-0]

as scheduled

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.

SPAN 6313 History of the Spanish Language [3-0]

as scheduled

A detailed study of the evolution of the Spanish language from Latin to contemporary Spanish.

SPAN 6339 Special Studies in Spanish-American Literature [3-0]

as scheduled

Special topics from the field of Spanish-American literature. This course may be taken three times as the topic varies. Prerequisite: Graduate standing.

SPAN 6341 Special Studies in Spanish Literature [3-0]

as scheduled

Special topics from the field of Spanish literature. This course may be taken three times as the topic varies.

Prerequisite: Graduate standing.

SPAN 6344 Problems and Issues Related to Language [3-0]

as scheduled

An examination of Spanish historical linguistics, Hispanic phonology, Spanish-English contrastive analysis and Spanish dialectology. Selected topics on language psychology and acquisition may be discussed. Can be repeated up to three times as topics vary.

Prerequisite: Graduate standing.

SPAN 6345 Latino Literature in the U.S. [3-0]

as scheduled

In this course students will read representative works of Puerto Rican, Cuban and Chicano writers in the United States. Students will explore issues of culture, ethnicity and identity in the works of Latino writers writing in Spanish. Possible topics include: Chicano Literature, Cuban-American Literature, Latina Literature and Chicano Popular Culture. Can be repeated up to three times as the topic changes.

SPAN 6346 Special Studies in Spanish Civilization [3-0]

as scheduled

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 and audio-visual materials will be presented and viewed. Prerequisite: Graduate standing.

SPAN 6347 Special Studies in Grammar and Composition [3-0]

as scheduled

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.

SPAN 6348 Language Access Policy and Planning In Health Services [3-0]

fall, spring

Review of major policies relating to language in health care, comparative analysis of major efforts undertaken to implement language-in-healthcare policy in health services organizations and comparisons of methods of language assistance delivery and their relation to quality health

services.

SPAN 6350 Special Topics in Spanish Linguistics [3-0]

as scheduled

Special topics oriented to the field of Spanish linguistics (Applied Linguistics, Sociolinguistics, Psycholinguistics). Can be repeated up to three times as topics vary.

SPAN 6351 Spanish Peninsular Poetry and Drama for AP Teachers [3-0]

fall spring

This course will analyze the poetic and dramatic works required for Advanced Placement Literature Courses written by Spanish Peninsular authors from the Middle Ages to the present.

SPAN 6352 Latin American Prose for AP Teachers [3-0]

fall, spring

This course will analyze the prose works required for Advanced Placement Literature Courses written by Latin American authors from the colonial period to the present.

SPAN 6353 Latin American Poetry and Drama for AP Teachers [3-0]

fall, spring

This course will analyze the dramatic and poetic works required for Advanced Placement Literature Courses written by Latin American authors from the colonial period to the present.

SPAN 6354 Spanish Peninsular Prose for AP Teachers [3-0]

fall, spring

This course will analyze the prose works required for Advanced Placement Literature Courses written by Spanish Peninsular authors from the Middle Ages to the present.

SPAN 7100 Directed Research in Languages, Literatures and Cultures [1-0]

fall

Individual research or creative project in language, literature or culture under the supervision of a member of the graduate faculty. The required outcome is an original work of substantive quality.

SPAN 7300 Thesis

SPAN 7301 Thesis

Other

UNIV 6301 Online Teaching for the Adult Learner [3-0]

fall, spring, summer

Research, theory and principles of adult learning and

development are explored with a specific emphasis on adult learners in the online environment. Application of theory is presented and analyzed along with research findings and practices in the planning of adult education and training curricula for the online environment.

Glossary of Terms

◆ [3-0] or [3-0-12] (for example)

Regularly scheduled classes at UT Pan American have prescribed contact hours (the actual number of hours each week a student will spend in lecture, laboratory and/or clinical sessions for that class) that are shown in brackets to the right of the course title in each department's course listings. The first number denotes the number of lecture contact hours, the second number denotes the laboratory contact hours, and a third number, if included, is the number of clinical contact hours. These numbers apply to the courses as they are scheduled for the fall or spring semester. Summer weekly contact hours will be adjusted to compensate for the shorter duration of the semester. Examples:

[3-0] The class will have three hours of lecture per week.

[2-3] The class will meet for two hours of lecture and three hours of laboratory per week.

[3-0-12] The class will have three hours of lecture and 12 hours of clinical experience each week.

◆ Accreditation — College or University

A college or university in the United States is considered accredited if it is recognized by one of the following regional accrediting agencies:

- Middle States Association of Colleges and Schools
- New England Association of Schools and Colleges
- North Central Association of Colleges and Schools
- Northwest Association of Schools and Colleges
- Southern Association of Colleges and Schools
- Western Association of Schools and Colleges

◆ Accreditation — High School

A high school in Texas is considered accredited if it is recognized by the Texas Education Agency (TEA). High schools outside of Texas are considered accredited if they are recognized by their state accreditation agency.

◆ Advanced-level Work

Courses numbered 3000-4000 are advanced or upper-division courses. Courses numbered 3000 are designated as junior level, and 4000-numbered courses are designated as senior level. Approval of the department chair or dean of the college is required for enrollment in advanced-level courses by students who have not reached junior standing. Students who have not passed all portions of the TASP exam may not enroll in any advanced-level coursework if, upon completion of the work, the student would have completed 60 or more

hours.

◆ **Attempted Hours**

Attempted hours are the total number of hours for courses that a student has attempted, including failing grades such as “F,” “DF” and “WF.” Repeated courses, failing grades over seven years old, incomplete grades and credit (CR) grades are not included in attempted hours at the undergraduate level.

◆ **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.

◆ **Common Course Number**

If the course is generally equivalent to other lower-division courses taught at universities and community colleges within the state, the Texas Common Course Number is shown in the course description for informational purposes. See page 27 for further information.

◆ **Contact Hours**

Number of regularly scheduled hours per week that a lecture, laboratory or clinical experience is scheduled to meet during a long semester. (See [3-0] above.)

◆ **Coursework in Residence**

Coursework in residence refers to coursework actually completed on the UT Pan American campus. Extension, credit by examination, and transfer credit may not be used to complete the residency requirement for graduation.

◆ **Dean’s List**

After each regular semester, a dean’s list is published listing the names of all undergraduate students enrolled in a minimum of 12 college-level hours who have a grade point average of 3.5 or better for courses taken that semester. A dean’s list is not produced during the summer sessions.

◆ **Designated Electives**

Students have choices within the category of designated electives but must complete the required number of courses or hours from those specified.

◆ **Elective Hours**

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

◆ **Entering Freshman**

A student admitted as an entering freshman has not attended any accredited college or university.

◆ **Full-time Graduate**

A graduate student who is enrolled for at least nine hours of credit during a regular semester, or at least four

hours of credit during a summer session, is considered fulltime.

◆ **Full-time Undergraduate**

An undergraduate student who is enrolled for at least 12 semester hours during a regular semester, or at least six hours of credit during a summer session, is considered fulltime.

◆ **Half-time Graduate**

A half-time graduate student is one who is enrolled for six to eight hours of credit during the regular semester or three hours of graduate credit during a summer session.

◆ **Half-time Undergraduate**

A half-time undergraduate student is one who is enrolled for six to 11 semester hours during the regular semester or three hours of credit during a summer session.

◆ **Three-Quarter Time Undergraduate**

A three-quarter time undergraduate student is one who is enrolled for nine to 11 semester hours during the regular semester.

◆ **Hours**

College credit at UT Pan American is measured in terms of semester credit hours. Ordinarily, a class that meets one 50-minute period per week for a regular semester will carry a credit of one hour. The majority of classes meet three periods or their equivalent each week and carry three hours of credit. Two or three laboratory hours per week are usually required for one hour of laboratory credit.

◆ **Leveling Work**

Coursework designed to eliminate deficiencies in educational background of students admitted or being considered for admission to a graduate program is called leveling work. (Graduate programs are designed on the assumption that students have a common body of knowledge.)

◆ **Maximum Course Load**

The maximum load for a full-time undergraduate student is 18 hours in a regular semester and 15 for each summer session. Students may be permitted to enroll for additional hours with the approval of his or her undergraduate advisor and the dean of the college.

◆ **MTEL**

The MTEL (Michigan Test of English Language) is one of the two major English-language proficiency tests for non-native speakers of English. The other exam is the TOEFL (Test of English as a Foreign Language). Only the TOEFL is administered at UT Pan American.

◆ **Prerequisite**

A course listed with a prerequisite means that specified requirements must be met before one can enroll in the 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. For further information, refer to the section in this catalog on scholastic probation and suspension on page 67 for undergraduate students and to the Graduate Catalog for graduate students. The Student Conduct and Disciplinary Code is discussed on page 87.

◆ Regular Semester

A regular semester is any 15-week fall or spring semester.

◆ Returning Student

A student whose last institution attended was UT Pan American is admitted as a returning student after an absence of at least one regular semester.

◆ Semester (see Regular Semester)

◆ Special Student

A student holding at least 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 colleges and is subject to all rules and regulations of that college.

◆ Special Graduate Student

Special graduate students are those holding a master's degree from an accredited institution who do not wish to enter a graduate program but wish to attend courses.

◆ Summer Session

As part of its regular program, the University offers two summer sessions, each five-and-one-half weeks long.

◆ Three-Quarter Time Undergraduate

A three-quarter time undergraduate student is one who is enrolled for nine-11 semester hours during the regular semester.

◆ Transfer Students

Students admitted as transfer students have last attended an accredited college or university other than, or in addition to, UT Pan American.

◆ Upper Division (see Advanced-level Work)

Faculty Listing

Abebe, Michael Alemayehu, Assistant Professor,

Department of Management, Marketing and International Business; Management, Ph.D., Southern Illinois University Carvondale, 2008.

Abraham, John P., Professor, Department of Engineering and Computer Engineering; Networking; Ed.D., University of Houston, 1986.

Acevedo Jr., Baltazar A., Professor, Department of Educational Leadership; Director, Center for Applied Research in Education; Southwest Texas State University, 1969; MA, Western Michigan University, 1974; Ph.D., The University of Texas at Austin, 1979.

Adair, Penelope A., Associate Professor, Department of History and Philosophy; History; Ph.D., University of California-Santa Barbara, 1993.

Affeldt, Robert J., Assistant Professor, Department of English; Language and Rhetoric; Ph.D., The University of New Mexico, 2001.

Agbese, Aje-Ori, Assistant Professor, Department of Communication; Writing for the Mass Media, Copy Editing, Mass Media Law and Ethics, Intercultural Communication; Ph.D., Bowling Green State, 2004.

Aguirre, Maria Teresa, Clinical Assistant Professor, Department of Clinical Lab Science, MS, Biology, The University of Texas-Brownsville, 2008

Ahluwalia, Punit, Assistant Professor, Department of Computer Information Systems and Quantitative Methods, Ph.D.

Ahmad, Hassan, Professor and Department Chair, Department of Chemistry; Biochemistry; Ph.D., Aligarh Muslim University, 1983.

Ahn, Seokyoung, Assistant Professor, Department of Mechanical Engineering; Mechanics of Solids, Motion Element Design, Modern Control Systems, Introduction to Laser Material Processing, Optimal Control; Ph.D., The University of Texas at Austin, 2005.

Aldridge, James W., Jr., Professor, Department of Psychology and Anthropology; Psychology, Perception, Cognition, Memory; Ph.D., State University of New York at Binghamton, 1976.

Alfaro, Edna Crystal, Assistant Professor, Department of Psychology and Anthropology, Ph.D., The University of Texas-Pan American, 2009.

Alianak, Sonia, Associate Professor, Department of Political Science; Comparative Government, International Relations, American Government; Ph.D., The University of Texas at Austin, 1987.

Almaguer, Isela, Assistant Professor, Department of Curriculum

and Instruction; Curriculum and Instruction, Emphasis on Teacher Education; Ed.D., University of Houston, 2003.

Alvarado, Frances E., Lecturer, Department of Mathematics; Elementary Algebra, Intermediate Algebra, College Algebra, Business Algebra, Trigonometry; MEd, The University of Texas-Pan American, 1994.

Alvarado, Sylvia Michelle, Lecturer, Department of Undergraduate Studies, MS, Texas A&M, College Station, 1997.

Alvarado, Victor, Professor, Department of Educational Psychology; Educational Leadership, Guidance and Counseling; Ed.D., Western Michigan University, 1976.

Alvarez Martinez, Stephanie, Assistant Professor, Department of Modern Languages and Literature; Spanish, Literature.

Ambriz, Frank, Program Chair and Assistant Professor, Physician Assistant Studies Program; Pediatrics, Pulmonology, Internal Medicine; BS, The University of Texas Medical Branch-Galveston, 1979.

Amorim, George Jaques, Lecturer, Department of Music and Dance, Doctoral of Music and Dance, University of North Texas, Master of Music in Double Bass Performance, 2003.

Anabila, Andrew A., Assistant Professor, Department of Accounting and Business Law, Ph.D., Columbia University, 2003.

Andaverdi, Saul, Lecturer, Department of Mathematics, Mathematics, Master in Mathematics, The University of Texas-Pan American, 2007.

Anderson, Erik Ryan, Lecturer, Department of History and Philosophy; Philosophy, MA in Philosophy, A & M University, 2001.

Anderson-Mejias, Pamela, Professor, Department of English; Applied Linguistics, Second Language Acquisition; Ph.D., Indiana University, 1980.

Andoh-Baidoo, Francis, Assistant Professor, Department of Computer Information Systems and Quantitative Methods, Ph.D., Virginia Commonwealth University, 2006.

Anshen, David W., Assistant Professor, Department of English; Ph.D., State University of New York at Stony Brook, 2004.

Appiahene-Gyamfi, Joseph, Associate Professor, Department of Criminal Justice; Criminology, International Criminal Justice, Corrections; Ph.D., Simon Fraser University, 1999.

Ardalani, Elvia G., Assistant Professor, Department of Modern Languages and Literature; Spanish; Ed.D., Texas A&I University-Kingsville, 1990.

Arizmendi, Lydia González, Associate Professor, Department of Social Work; Generalist Social Work Practice and Marco Practice; J.D., University of California-Davis, 1978; MSW, University of Michigan-Ann Arbor, 1973.

Arredondo, Sonja L., Lecturer, Department of Social Work, MAS.

Atamian, Rubik, Associate Professor, Department of Accounting and Business Law; Accounting; Ph.D., The University of Texas at Austin, 1984.

Ayala, Kara J., Assistant Professor, Department of Communication Sciences and Disorders, Ph.D.

Baez, Nalda, Assistant Professor, Department of Modern Languages and Literature; Latin American Literature, MS, Purdue University, 2002.

Baik, Ellen R., Assistant Professor, Department of Political Science, Ph.D.

Baker, Willard R., Assistant Professor, Physician Assistant Studies Program, MAS.

Balci, Tamer, Assistant Professor, Department of History and Philosophy; History, Ph.D. in History, Claremont Graduate University, 2007.

Balogh, Andra's, Associate Professor, Department of Mathematics; Mathematics; Ph.D., Texas Tech University, 1997.

Banatoski, Edward, Lecturer, Department of Electrical Engineering; Ph.D., The University of Texas at Arlington, 2000.

Banik, Bimal K., Professor, Department of Chemistry; Organic Chemistry; Ph.D., Jadavpur University-India.

Barrera, Iran, Assistant Professor, Department of Social Work, Ph.D., The University of Texas at Arlington, 2008

Bautista, Beatriz (Betty), Lecturer, Department of Nursing; MSN, University of South Carolina-Columbia, 1990.

Bede, Barnabas, Assistant Professor, Department of Mathematics, Mathematics, Ph.D., Universitae Babes-Bolyai, 2004.

Behar, Stella, Associate Professor, Department of Modern Languages and Literature; French; Ph.D., University of California at Los Angeles, 1991.

Belau, Linda, Associate Professor, Department of English; Philosophy, Literature, and the Theory of Criticism; Ph.D., State University of New York at Binghamton, 2000.

Ben Ghalia, Mounir, Associate Professor, Department

of Electrical Engineering; Systems Modeling and Robust Control, Robotics, Neural Networks, Knowledge-Based Systems; Ph.D., Tennessee Technological University, 1995.

Benham, Grant, Associate Professor, Department of Psychology and Anthropology; Psychology; Ph.D., The University of Tennessee-Knoxville, 2000.

Bernard, John E., Professor, Department of Mathematics; Mathematics Education; Ph.D., The University of Texas at Austin, 1978.

Bhat, Narayan, Professor, Department of Chemistry; Organic Chemistry; Ph.D., University of Poona-India, 1982.

Bhatta, Dambaru D., Associate Professor, Department of Mathematics; Ph.D., Dalhousie University-Canada, 1995.

Bhatti, Muhammad Idrees, Professor, Department of Physics and Geology; Atomic Physics; Ph.D., University of Notre Dame, 1987.

Birk, Megan Elizabeth, Assistant Professor, Department of History and Philosophy; History, Ph.D., Purdue University, 2008.

Blankenship, Charlene J., Undergraduate Program Coordinator and Assistant Professor, Department of Rehabilitation Services; Ph.D., Southern Illinois University.

Blomquist, Melinda, Lecturer, Department Music and Dance; Dance; MA, Brigham Young University, 1998.

Bokina, John, Professor, Department of Political Science; Political Theory, Western and Eastern Europe; Ph.D., University of Illinois, 1979.

Borrego, Espiridion A., Program Director and Associate Professor, Department of Public Administration.

Bose, Ramendra, Assistant Professor, Department of Mathematics, Applied Mathematics, PhD, State University of New York, 1973

Bose, Subhash C., Beecherl Professor, Manufacturing Engineering Department; Process and Product Design, Computer-Aided Manufacturing, Robotics and Control; Ph.D., The University of Wisconsin-Madison, 1987.

Boudreau, James W., Assistant Professor, Department of Economics and Finance; Economics, Ph.D. (expected 2009), University of Connecticut.

Bowe, George, Lecturer, Department of Criminal Justice.

Bowen, Judith E., Associate Professor and Chair, Department of Occupational Therapy; MA, Memphis State University, 1979.

Bracken, Paul, Associate Professor, Department of

Mathematics; Applied Mathematics; Ph.D., University of Waterloo, Ontario-Canada, 1995.

Bradley, Robert C., Assistant Professor, Department of Art, Ph.D., in Art History, Columbia University, 2005.

Braithwaite, Jean, Assistant Professor, Department of English.

Brazier, Pearl W., Associate Professor, Department of Computer Engineering and Computer Science; Programming Languages, Software Engineering; MS, Virginia Polytechnic Institute and State University, 1981.

Brewerton, F.J., Professor, Department of Management, Marketing and International Business; Management; DBA, Louisiana State University, 1968.

Brickman, Stephanie J., Associate Professor, Department of Educational Psychology; Ph.D., University of Oklahoma, 1998.

Brown, Cynthia, Vice Provost for Graduate Studies; Professor, Department of Economics and Finance; Finance; Ph.D., The University of Texas-Pan American, 1998.

Brown, Danika M., Associate Professor, Department of English; Rhetoric, Composition; Ph.D., The University of Arizona, 2003.

Browne, Peter E., Associate Professor, Department of Modern Languages and Literature; Spanish; Ph.D., University of Nebraska-Lincoln, 1993.

Brush, Timothy, Professor, Department of Biology; Zoology; Ph.D., Rutgers University, 1985.

Buckman, Kenneth L., Associate Professor, Department of History and Philosophy; Philosophy, Continental Philosophy, Oriental Philosophy, Social Philosophy, 19th and 20th Century Philosophy; Ph.D., Southern Illinois University, 1990.

Bullard, Jim, Assistant Professor, Department of Chemistry, Ph.D., University of Montana, 1996.

Bustamante, Juan, Lecturer, Department of Sociology, MS, The University of Texas-Pan American, 2004.

Butler, Alley C., Professor, Department of Manufacturing Engineering.

Cabrera, Fernando, Clinical Specialist, Department of Nursing.

Cain, Roy E., Associate Professor, Department of Psychology and Anthropology; Psychology, Physiological Psychology, Biofeedback, Psycho-Physiology, Stress Management; Ph.D., University of Houston, 1972.

Calarge, Carla A., Assistant Professor, Department of Modern Languages and Literature; French, Literature.

Cameron, Edward T., Associate Professor, Department of English; Ph.D., State University of New York at Birmingham, 2000.

Campney, Brent MacDonald, Assistant Professor, Department of History and Philosophy; History, Ph.D., Emory University, 2007.

Canales, Patricia, Assistant Professor, Cooperative Pharmacy Program; Pharm.D.; The University of Texas at Austin, 1995.

Cantú-Cabrera, Juana, Lecturer, Department of Nursing; MSN, The University of Texas Health Science Center-Houston, 1994.

Canty, Dean R., Associate Professor, Department of Music; High Brass, University Band Director, Jazz Ensemble Director; DMA, The University of Texas at Austin, 1980.

Carlson, David, Assistant Professor, Department of History and Philosophy, Ph.D., University of North Carolina at Chapel Hill, 2007.

Carlson, Ralph, Professor, Department of Educational Psychology; Psychology, Quantitative Methods, Statistics, Theories of Personality; Ph.D., University of Houston, 1974.

Carren, David B., Associate Professor, Department of Communication; TV/Theatre/Film.

Caruntu, Dumitru, Assistant Professor, Department of Mechanical Engineering, PhD., Politechnica University of Bucharest, 1999.

Casebeer, Cindy M., Assistant Professor, Department of Educational Psychology; Ph.D., University of Alabama-Tuscaloosa, 2006.

Castillo, Yvonne O., Assistant Professor, Department of Educational Psychology.

Castro, Veronica, Assistant Professor, Department of Educational Psychology; Ph.D., Texas A&M-Corpus Christi, 2005.

Cavazos, Alonzo, Professor, Department of Social Work; Clinical Social Work, Administration; Ed.D., University of Houston, 1994; MSSW, The University of Texas at Austin, 1975.

Cellon, Cheryl, Assistant Professor, Department of Music and Dance, Doctor of Music, Florida State University, 2006.

Chakraborty, Santanu, Assistant Professor, Department of Mathematics; Ph.D., Indian Statistical Institute, 2002.

Chandler, Karen, Assistant Dean, College of Health Sciences

and Human Services, Associate Professor and Program Coordinator, Clinical Laboratory Sciences Program; MT (ASCP), CLS(NCA), MA, Central Michigan University, 1983.

Chang, Yanrong, Assistant Professor, Department of Communication; Communication Studies.

Chapa, Olga, Lecture, Department of Quantitative Methods, PhD, The University of Texas-Pan American, 2009.

Charlton, Colin T., Assistant Professor, Department of English.

Charlton, Jonikka P., Assistant Professor, Department of English; Ph.D., Purdue University, 2005.

Chebotko, Artem V., Assistant Professor, Department of Computer Science, Ph.D., Wayne State University, 2008.

Chen, Haiwei, Associate Professor, Department of Economics and Finance; Finance, Ph.D., Emory University, 1998.

Chen, Roy Kuan-Yu, Assistant Professor, Department of Rehabilitation Services.

Chen, Weidong, Lecturer, Department of Mathematics, PhD, Kansas State University, 2007

Chen, Xi, Assistant Professor, Department of Political Science.

Chen, Zhixiang, Professor and Chair, Department of Computer Science; Theoretical Computer Science, Machine Learning and Data Mining; Ph.D., Boston University, 1996.

Chipara, Mircea, Assistant Professor, Department of Physics and Geology; Physics; Ph.D., Institute for Atomic Physics, 1996.

Chipara, Dorina, Assistant Professor, Department of Physics and Geology, Ph.D., University of Bucharest, 1999

Choutapalli, Isaac, Assistant Professor, Department of Mechanical Engineering, Ph.D., Florida State University, 2007.

Christensen, Matthew J., Assistant Professor, Department of English; Comparative Literature; Ph.D., University of California at Los Angeles, 2002.

Chu, Yul, Assistant Professor, Department of Electrical Engineering, Ph.D., University of British Columbia, 2007.

Chua, Ansley Chan, Assistant Professor, Department of Economics and Finance; Finance, Ph.D., Florida State University.

Coberly, Rebecca A., Assistant Professor, Department

of Music and Dance, Ph.D. in Musical Art, Texas Tech University, 2009.

Cole, Deborah L., Assistant Professor, Department of English; Ph.D., University of Arizona-Tucson, 2004.

Contreras, Salvador, Assistant Professor, Department of Economics and Finance; Economics, Ph.D., Claremont University, 2007.

Contreras, Victoria, Associate Professor, Department of Modern Languages and Literature; Spanish; Ph.D., The University of Texas at Austin, 1989.

Corpuz, Edgar, Assistant Professor, Department of Physics and Geology; Physics; Ph.D., Kansas State University, 2006.

Cortes, Angelica, Associate Professor, Department of Management, Marketing and International Business; Marketing; Ph.D., University at Albany-CT, 1997.

Cortina, Maria Guadalupe, Associate Professor, Department of Modern Languages and Literature; Ph.D., University of Arizona, 1996.

Cripps, Cynthia, Assistant Professor, Department of Music and Dance, Ph.D. in Musical Art, University of Miami, 2006.

Crisafulli, Anthony, Professor and Chair, Department of Art.

Crossler, Robert Ernest, Assistant Professor, Department of Computer Information Systems, Ph.D., Virginia Tech University, 2009.

Crown, Stephen W., Professor, Department of Engineering; Mechanical Engineering; Ph.D., University of Colorado, 1993.

Croyle, Kristin, Assistant Dean, College of Social and Behavioral Sciences, Associate Professor, Department of Psychology and Anthropology; Ph.D., The University of Montana, 2000.

Crutchfield, Ruth, Lecturer, Department of Communication Sciences and Disorders, MA, The University of Texas-Pan American, 1997.

Cruz, Gustavo, Lecturer, Department of Mathematics, MS, The University of Texas-Pan American, 2007.

Cunningham, Mark A., Associate Professor, Department of Physics and Geology; Physics; Ph.D., Yale University, 1982.

Curts, James B., Associate Professor, Department of Curriculum and Instruction; Ph.D., University of Wisconsin, 1985.

Dabrowski, Peter P., Professor, Department of Music; Valley Symphony Conductor; DMA, Northwestern University, 1998.

Damianov, Damian, Assistant Professor, Department of Economics and Finance.

Daniel, Clay L., Associate Professor, Department of English; 17th Century British Literature, Milton; Ph.D., Texas A&M University, 1988.

Dantzker, Mark, Professor, Department of Criminal Justice; Police Administration, Police Issues, Research Methods; Ph.D., The University of Texas at Arlington, 1989.

Darcy, John, Associate Professor, Department of Accounting and Business Law; Ph.D., The University of Oklahoma, 2002.

Darsow, Fred, Assistant Professor, Department of Music and Dance; Dance Choreography; MFA, Arizona State University, 1998.

Davelos-Baines, Anita L., Assistant Professor, Department of Biology.

Dávila, Alberto, Neuhaus Professor and Chair, Department of Economics and Finance; General Business, Economics; Ph.D., Iowa State University, 1982.

Davis, Richard, Associate Professor, Department of Music and Dance; Voice; DMA, Indiana University, 1985.

Davis, Virginia, Assistant Professor, Department of Music and Dance, Ph.D. in Music, University of Arizona, 2005.

Dean, André, LTC, Chair, Department of Military Science; ROTC 4401, 4403; MPA, The University of Texas at Austin, 1990.

de Alba, Roman Garcia, Assistant Professor, Department of Educational Psychology; Ph.D., Texas A&M University-Kingsville, 2006..

Debnath, Lokenath, Professor and Chair, Department of Mathematics; Pure and Applied Mathematics, Mathematical Physics; Ph.D. (Pure Mathematics), University of Calcutta, 1965; Ph.D. (Applied Mathematics), University of London, 1967.

DeLassus, Phillip, Professor, Department of Chemistry; Physical Chemistry; Ph.D., The University of Chicago, 1972.

DeLeon, Leticia, Assistant Professor, Department of Curriculum and Instruction; Ph.D., University of Houston, 2005..

Delgado, Diana, Clinical Specialist, Department of Nursing.

De los Santos, Gilberto, Professor Emeritus, Department of Management, Marketing and International Business; Marketing; Ph.D., The University of Texas at Austin, 1972.

De Los Santos, Josephine, Assistant Professor, Department of Educational Psychology; Ph.D., Oklahoma State University, 2002.

De los Santos, Miguel A., Associate Professor, Department of School Administration and Supervision; Educational Administration; Ph.D., The University of Texas at Austin, 1980.

De Souza, Carlos Roberto, Assistant Professor, Department of Art, Ph.D. in Art History, University of California, Santa Barbara, 2008.

Dearth, Daniel K., Associate Professor, Department of Criminal Justice; Police Administration, Correctional Administration, Policing Issues, Criminal Procedures and Evidence; Ph.D., Sam Houston State University, 1984.

Dearth, Robert Keith, Assistant Professor, Department of Biology, Ph.D., Texas A&M University, 2003

Desai, Chintal Ajitbhai, Assistant Professor, Department of Economics and Finance; Finance, Ph.D., The George Washington University, 2008.

deSharp, Monica Diaz, Assistant Professor, Department of Modern Languages and Literature; Spanish, Literature; Ph.D., Indiana University, 2002.

Devanaboina, Madhavi, Lecturer, Department of Mathematics, MS, Texas A&M University, 2004.

DeYoe, Hudson, Associate Professor, Department of Biology; Algal Ecology, Sea Grass Ecology; Ph.D., Bowling Green State University, 1991.

Diaz, Hector L., Professor and Chair, Department of Social Work.

Diaz, Maria I., Assistant Professor, Department of Nursing.

Diaz, Sylvia, Lecturer, Department of Chemistry; MA, The University of Texas at Austin, 2000.

Dietrich, Gustavo G., Lecturer, Department of Computer Science; Programming Languages and Methodology; MS, Texas A&M University-Kingsville, 1988.

Dimakis, Nikolas, Assistant Professor; Department of Physics and Geology; Ph.D., Illinois Institute of Technology-Chicago, 1997.

Dirgill, Frank, Assistant Professor, Department of Biology, Ph.D., University of Connecticut, 1998.

Dodd, Kathryn, Lecturer, Department of Biology, MS, University of Oklahoma, 1999.

Dominguez, Sylvia M., Professor Emeritus, Department of Modern Languages and Literature; Spanish; Ph.D., The

University of Arizona, 1971.

Dong, Wenjie, Assistant Professor, Department of Electrical Engineering, Ph.D., University of California, 2009.

Donnell, William, Lecturer, Department of Mathematics, Ph.D., Texas Tech University, 1971.

Dorsey, Margaret E, Assistant Professor, Department of Psychology and Anthropology, Ph.D., Indiana University, 2002.

Dugas, Donna, Associate Professor and Chair, Department of Health and Kinesiology; Physical Education Pedagogy; Ph.D., The Ohio State University, 1983.

Ebaseh-Onofa, Benjamin O., Associate Professor, Department of Mathematics; Statistics; Ph.D., Texas A&M University, 1988.

Edionwe, Alexander O., Associate Professor, Coordinated Program in Dietetics; Registered Dietitian; Ph.D., University of Nebraska-Lincoln, 1991.

Edwards, Robert J., Professor, Department of Biology; Ichthyology, Ecology, Population Biology; Ph.D., The University of Texas at Austin, 1980.

Egle, Ardath L., Lecturer, Department of Biology; Anatomy and Physiology, Vertebrate Biology; MS, Pan American University, 1988.

Egle, David L., Lecturer, Department of Computer Science; Numerical Analysis, Systems Programming, Computer Organization; MS, Texas A&M University, 1977.

Egnizio, James, Professor, Department of Manufacturing Engineering, Ph.D., Virginia Tech, 1971.

Eisenman, Russell, Associate Professor, Department of Psychology and Anthropology; Clinical Psychology; Ph.D., The University of Georgia, 1966.

English, Linda Christine, Assistant Professor, Department of History and Philosophy, Ph.D., University of Oklahoma, 2005.

Eom, Minhee, Assistant Professor, Department of English.

Ernst, Frederick A., Acting Assistant Dean, College of Social and Behavioral Sciences, Professor, Department of Psychology and Anthropology.

Esquierdo, Jennifer J., Assistant Professor, Department of Curriculum and Instruction.

Estrada, Veronica L., Associate Professor, Department of Curriculum and Instruction; Curriculum and Instruction Education; Ph.D., The Ohio State University, 1997.

Ethridge, Philip, Associate Professor, Department of Criminal Justice; Criminal Justice Generalist, Police-Community Relations, Privatization, Corrections Law; Ph.D., Sam Houston State University, 1990.

Eyambe, George Sona, MT (ASCP), Associate Professor, Clinical Laboratory Science Immunology; Ph.D., University of North Texas, 1991.

Faraji, Bahram, Program Coordinator and Professor, Coordinated Program in Dietetics; Registered Dietitian; Ph.D., University of California, 1982.

Farooqi, Mohammad, Ibrahim Husain, Assistant Professor, Physician Assistant Studies Program; BS, The University of Texas-Pan American, 2002.

Farooqui, Mohammed, Professor and Chair, Department of Biology; Physiology, Toxicology, Entomology, Cell Biology; Ph.D., University of Illinois, 1979.

Farris, Marcus "Chad", Assistant Professor, Department of Art, MFA, Texas Tech University-Commerce, 2006.

Farruggio, Peter, Assistant Professor, Department of Curriculum and Instruction; Ph.D., University of California-Berkeley, 2004.

Fatehi, Mohammed, Lecturer, Department of Mathematics; Linear Algebra, Statistics; Ph.D., New Mexico State University, 1996.

Faubion, Michael L., Chair and Associate Professor, Department of History and Philosophy; History, Diplomate, Military and Environmental History; Ph.D., Texas Tech University, 1992.

Faulkes, Zen, Assistant Professor, Department of Biology; Neurobiology and Ethology; Ph.D., University of Victoria, 1996.

Faver, Catherine Ann, Professor, Department of Social Work; MSSW, The University of Texas at Arlington, 1975; Ph.D., University of Michigan, 1979.

Feldman, Janis B., Assistant Professor, Department of Social Work; MSW, Hunter College, 1975; Ph.D., Barry University-Florida, 1997.

Feng, Bao-Feng, Associate Professor, Department of Mathematics; Applied Mathematics; Ph.D., Kyoto University, Japan, 2000.

Feng, Zhaosheng, Assistant Professor, Department of Mathematics; Ph.D., Texas A&M University, 2000.

Feria, Teresa Patricia, Assistant Professor, Department of Biology, Ph.D., University of Missouri - St. Louis, 2007.

Field, Philip S., Professor, Department of Art; Printmaking, Painting, Aesthetics; MFA, Syracuse University, 1965.

Fielding, Cheryl, Associate Professor, Educational Psychology; Ph.D., Texas A&M University, 2000.

Figueroa-Lozano, Andres, Assistant Professor, Department of Computer Science.

Finck, James W., Lecturer, Department of History and Philosophy.

Firat, Asim Fuat, Professor and Chair, Department of Management, Marketing and International Business; Marketing; Ph.D., Northwestern University, 1978.

Fischer, Jerome M, Professor, Department of Rehabilitation, PhD, Southern Illinois University, 1992.

Flores, Maria E., Lecturer, Department of Modern Languages and Literature; Spanish, Language.

Flores-Vela, Alma, Lecturer, Department of Nursing; MSN, The University of Texas-Pan American, 1998.

Foltz, Heinrich D., Professor and Chair, Department of Electrical Engineering; Ph.D., The University of Texas at Austin, 1993.

Fournier, Kimberly A., Assistant Professor, Department of Health and Kinesiology, Ph.D., University of Florida, 2008.

Fowler, Richard H., Professor, Department of Computer Science; Information Visualization and Interactive Systems; Ph.D., University of Houston, 1980.

Fredensborg, Brian, Assistant Professor, Department of Biology, Ph.D., University of Otago, 2005.

Freeman, Robert A., Professor, Department of Engineering; Mechanical Engineering; Ph.D., University of Florida, 1985.

Freeman, Samuel, Associate Professor, Department of Political Science; Political Parties, U.S. Presidency, Congress, Foreign Policy; Ph.D., University of Kentucky, 1978.

Fu, Bin, Associate Professor, Department of Computer Science.

Fuentes, Arturo A., Associate Professor, Department of Mechanical Engineering; Ph.D., Rice University, 1999.

Fuentes, Lilia A., Clinical Specialist, Department of Nursing; Family Nurse Practitioner; MSN, The University of Texas-Pan American, 2001.

Galstyan, Anahit, Assistant Professor, Department of Mathematics; Ph.D., University of Cincinnati-Ohio, 2005.

Ganguli, Gouranga, Professor, Department of Accounting and Business Law; Accounting; CPA, CMA, CIA; Ph.D., The University of Mississippi, 1983.

Garcia, Carmela, Lecturer, Department of Modern Languages and Literature; Spanish; MAIS, Pan American University, 1986.

Garcia, Criselda, Assistant Professor, Department of Curriculum and Instruction; Educational Administration, MEd, The University of Texas-Pan American, 2002.

Garcia, Jesse, Lecturer, Department of Sociology, MA, The University of Texas-Pan American, 2003.

Garza, Gavino, Lecturer, Department of Health and Kinesiology, MS, The University of Texas-Pan American, 2004.

Garza, Joe M., Lecturer, Department of Management, Marketing and International Business.

Garza, Juanita, Lecturer, Department of History and Philosophy; History, U.S. History; MAIS, Pan American University, 1984.

Garza, Lyena, Lecturer, Department of Communication Sciences and Disorders, MA, The University of Texas at Austin, 2004.

Garza, Viola, Lecturer, Department of Nursing; MSN, The University of Texas-Pan American, 1996.

Gasquoine, Philip, Associate Professor, Department of Psychology and Anthropology.

Ghanem, Salma, Professor and Chair, Department of Communication; Journalism; Ph.D., The University of Texas at Austin, 1996.

Gilbert, Robert, Professor, Department of Art, MFA, California State University, 1995.

Gilson, Gregory, Assistant Professor, Department of History and Philosophy; Ph.D., University of Wisconsin-Madison, 1998

Gkioulekas, Eleftherios, Assistant Professor, Department of Mathematics, Ph.D., University of Washington, 2006.

Glazer, Mark, Professor, Department of Psychology and Anthropology; Anthropology, Folklore, Anthropological Theory; Ph.D., Northwestern University, 1973.

Gómez, Leo, Professor, Department of Curriculum and Instruction; Philosophy, Curriculum and Instruction, Bilingual/ESL; Ph.D., Texas A&M University, 1994.

Gonzales, Stanley Z., Lecturer, Department of Criminal Justice; MA, Sam Houston State University, 1980.

Gonzalez, Genaro, Professor, Department of Psychology and Anthropology; Psychology, Social, Cross-Cultural;

Ph.D., The University of California, Santa Cruz, 1982.

Gonzalez, Irasema S., Lecturer, Department of Curriculum and Instruction; MEd, The University of Texas-Pan American, 1995; Ed.D., Texas A&M University-Kingsville, Present.

Gonzalez, John Michael, Assistant Professor, Department of Social Work, Ph.D., The University of Texas-Austin, 2008

Gonzalez, Jorge Antonio, Assistant Professor, Department of Management, Marketing and International Business; Management, Texas A&M University, 2001.

Gonzalez, Juan Luis, Assistant Professor, Department of Physics and Geology, Ph.D., Tulane University, 2008.

Gonzalez, Miguel A., Associate Dean, College of Science and Engineering; Associate Professor, Department of Manufacturing Engineering; Training Simulators, Integrated Logistics Support, Manufacturing Systems, Work Science and Ergonomics, Applied Operations Research and Quality Management; Ph.D., University of Houston, 1995.

Grabowski, Laura M., Assistant Professor, Department of Computer Science, Ph.D., Michigan State University, 2009.

Grabowski, Thomas E., Associate Professor, Department of Communication; Theatre/TV/Film; MFA, University of Illinois at Urbana-Champaign, 1981.

Graf, Noreen, Associate Professor, Department of Rehabilitation Services; Ph.D., Southern Illinois University-Carbondale, 1995.

Graham, Margaret, Assistant Professor, Department of Psychology and Anthropology, Ph.D., Michigan State University, 1991.

Grant, Ken, Lecturer, Department of History and Philosophy; History, Ph.D., Lutheran School of Theology at Chicago, 2000.

Gressel, Justin Wayne, Assistant Professor, Department of Management, Marketing and International Business; Marketing, Ph.D., Purdue University, 2006.

Grossman, Morley K., Professor, Department of Music; Piano; DMA, Indiana University, 1983.

Guadarrama, Irma Nelly, Professor/Chair, Department of Curriculum and Instruction, Ph.D., The University of Texas at Austin, 1982.

Guajardo, Francisco, Assistant Professor, Department of Educational Leadership; Ph.D., The University of Texas at Austin, 2003.

Guajardo, Maritoni S., Assistant Professor, Department of Curriculum and Instruction; Ed.D.; Texas A&M University-

Kingsville, 1999.

Guerra, Dahlia, Dean of College, College of Arts and Humanities; Professor, Department of Music; Piano and History of Mexican Folk Music; DMA, The University of Oklahoma, 1997.

Guerra, Petra, Assistant Professor, Department of Communication; Journalism; Ph.D., Washington State University-Pullman, 2003.

Guerra, Raymond S., Associate Professor, Department of Sociology; Japanese Society, Mexican-Americans, Ethnicity and Religion; Ph.D., Southern Methodist University, 1989.

Guerrero, Michael, Associate Professor, Department of Curriculum and Instruction; Educational Linguistics; Ph.D., The University of New Mexico, 1994.

Guinn, Robert, Professor and Program Coordinator, Department of Health and Kinesiology; Health; Ph.D., Texas A&M University, 1974.

Gunn, Scott J., Professor, Department of Biology; Genetics, Vertebrate Zoology; Ph.D., Texas A&M University, 1986.

Guo, Chiquan, Associate Professor, Department of Management, Marketing and International Business; Marketing; Ph.D., Southern Illinois University-Carbondale, 2001.

Gutierrez-Gonzales, José J., Assistant Professor, Department of Chemistry; Organic Chemistry; Ph.D., The University of Texas at Dallas, 2002.

Guzmán, Isabel (Penny), Clinical Specialist, Department of Nursing; MSN, University of Puerto Rico, 1972; MS, Texas A&M University-Corpus Christi, 1995.

Hamilton, Lee, Associate Professor, Department of English; 19th Century British Literature, Bibliography; Ph.D., Louisiana State University, 1982.

Hamilton, Rebekah, Associate Professor, Department of English; English Literature, World Literature, Composition; Ph.D., Texas A&M University, 1993.

Han, Aijie, Assistant Professor, Department of Chemistry, Ph.D., Fudan University, 2005.

Hannan, Mohammad Abdul, Associate Professor, Department of Physics and Geology; Solar Energy; Ph.D., University of London-United Kingdom, 1976.

Hansmann, Sandra E., Assistant Professor, Department of Rehabilitation Services; Ph.D., The University of Texas at Austin, 2000.

Harai, Michiyo, Assistant Professor, Department of Psychology and Anthropology, Ph.D., Virginia Tech, 2002.

Haule, James M., Professor, Department of English; Modern and Contemporary British Literature; Ph.D., Wayne State University, 1974.

Hawks, Stephanie, Assistant Professor, Department of Communication; TV/Theatre/Film.

Hay, Amy M., Assistant Professor, Department of History and Philosophy.

Hays, Robert L., Lecturer, Department of Political Science.

Heckler, Edward, Associate Professor, Department of English; Linguistics, ESL; Ph.D., Michigan State University, 1975.

Heller, William, Associate Professor, Department of Mathematics; Ph.D., University of Maryland, 1991.

Hernandez, Fernando, Lecturer, Department of Curriculum and Instruction, M.Ed., The University of Texas-Pan American, 2003.

Hernandez, José E., Assistant Professor, Department of Modern Languages and Literature; Spanish, Linguistics; Ph.D., University of New Mexico-Albuquerque, 2004.

Hernandez, Judith, Lecturer, Department of Undergraduate Studies; Ph.D., University of Michigan-Ann Arbor, 1980.

Hernandez, Leila M., Associate Professor, Department of Art; Graphic Design; MFA, University of Florida, 1999.

Hernandez, Sonia, Assistant Professor, Department of History and Philosophy.

Herrera Erdem, Orelia, Clinical Specialist, Department of Nursing; MSN, Texas A&M University-Corpus Christi, 1989.

Herrscher, Barton Robert, Lecturer, Department of Educational Leadership; Ed.D., The University of California-Los Angeles, 1967.

Hinojosa, Servando Z., Associate Professor, Department of Psychology and Anthropology; Anthropology, Maya of Guatemala, Chicano Culture, Medical Anthropology, Latin America; Ph.D., Tulane University, 1999.

Hoppens, Robert James, Assistant Professor, Department of History and Philosophy, Ph.D., in History, University of Washington, 2009.

Howlett, Dela, Lecturer, Department of Undergraduate Studies, M.Ed., The University of Texas-Pan American, 1999.

Huber, Timothy J., Assistant Professor, Department of Mathematics, Ph.D., University of Illinois, 2007.

Huddle, John W., Lecturer, Department of English; Creative

Writing; MFA, University of Houston, 2000.

Huerta, Carolina, Professor and Chair, Department of Nursing; Adult Education; Ed.D., Texas A&M University, 1990.

Huq, Hasina, Assistant Professor, Department of Electrical Engineering, Ph.D., University of Tennessee, 2006.

Hughes, Jerald K., Assistant Professor, Department of Computer Information Systems and Quantitative Methods.

Hyslin, Richard P., Professor, Department of Art; Ceramics, Sculpture, Drawing; MA, The University of New Mexico, 1968.

Ibrahim, Elamin, Associate Professor, Department of Chemistry; Analytical Chemistry; Ph.D., Mississippi State University, 1995.

Jackson, Dave O., Associate Professor, Department of Economics and Finance; Ph.D., Florida Atlantic University, 2002.

Jackson, Edward J., Lecturer, Department of Political Science.

Jackson, Joyce Diane, Assistant Professor, Department of Computer Information Systems, Ph.D., University of South Carolina, 2007.

Jain, Sachin, Assistant Professor, Department of Educational Psychology; Counselor Education and Supervision; Ph.D., University of Wyoming, 2006.

James-Aldridge, Valerie G., Chair and Associate Professor, Department of Psychology and Anthropology; Psychology, Animal Behavior, Primate Behavior, Research in Zoos; Ph.D., Oklahoma State University, 1975.

Jaworski, Michael, Lecturer, Department of History and Philosophy; Philosophy, Master in Philosophy, The Ohio State University, 2005.

Jin, Changha, Assistant Professor, Department of Economics and Finance; Finance, Georgia State University, 2008.

Johnson, Michael B., Assistant Professor, Department of Educational Psychology; Counseling and School Psychology; Ph.D., Florida State University, 2006.

Johnson, Robert, Associate Professor, Department of English; American Literature, Southern Women Writers; Ph.D., University of Southern California, 1994.

Jones Jr., Robert E., Professor, Department of Engineering; Mechanical Engineering; Ph.D., Texas A&M University, 1990.

Jorgensen, Layne, Professor and Graduate Program

Coordinator, Department of Health and Kinesiology; Biomechanics and Research Methods; Ph.D., Louisiana State University, 1971.

Jou, Jerwen, Professor, Department of Psychology and Anthropology; Psychology, Cognitive Psychology; Ph.D., Kansas State University, 1990.

Judd, Frank W., Research Professor, Department of Biology.

Jung, Joo Young, Assistant Professor, Department of Management, Marketing and International Business; Mechanical Engineering; Ph.D., University of Connecticut, 1992; MBA, 2002.

Kapps, Sarah, Lecturer, Department of Music and Dance, Master in Music, Manhattan School of Music, 1996.

Kaynak, Hale, Professor, Department of Management, Marketing and International Business; Management, Production and Operation; Ph.D., University of North Texas, 1996.

Keller, Christopher, Associate Professor, Department of English; Ph.D., University of Florida, 2001.

Kendrick, Sherrill, Assistant Professor, Department of Psychology and Anthropology; Psychology, Clinical, Behavior Modification; Ph.D., The University of Southern Mississippi, 1974.

Knight, Thomas D., Assistant Professor, Department of History and Philosophy; Early American History; Ph.D., University of Oxford, 2004.

Knobel Jr., Roger A., Associate Professor, Department of Mathematics; Differential Equations, Applied Mathematics; Ph.D., Rensselaer Polytechnic Institute, 1991.

Koo, Felix Chong Wah, Clinical Coordinator and Assistant Clinical Professor, Physician Assistant Studies Program; Pediatrics; Ph.D., The University of Texas Medical Branch-Galveston, 1981; M.D., The University of Texas Health Science Center at San Antonio, 1990.

Koong, Kai S., Professor, Department of Computer Systems and Quantitative Methods; Ph.D., Mississippi State University, 1987.

Korotkova, Tatyana, Lecturer, Department of Mathematics, MS, University of Texas-Pan American, 2006.

Kranz, Peter, Assistant Professor, Department of Educational Psychology; Child Psychology; Ph.D., Utah State University, 1969.

Kuang, Anxiu, Associate Professor, Department of Biology; Plant Development, Plant Physiology, Cell Ultrastructure; Ph.D., Auburn University, 1991.

Kuang, Weidong, Assistant Professor, Department of Electrical and Computer Engineering; Ph.D., University of Central Florida, 2003.

Kuhn, Lisa L., Academic Coordinator and Assistant Professor, Physician Assistant Studies Program; Family Practice, Obstetrics and Gynecology; MMS, Nova Southeastern University-Florida, 2004.

Kumar, Sanjeev, Associate Professor, Department of Electrical and Computer Engineering; Communications Networks, Protocols, Computer Architecture; Ph.D., North Carolina State University, 1995.

Kypuros, Javier A., Associate Professor, Department of Mechanical Engineering; Ph.D., The University of Texas at Austin, 2001.

Lang, Yong, Associate Professor, Department of English; Linguistics, ESL; Ph.D., The Ohio State University, 1998.

Lantz, Keith W., Chair and Professor, Department of Accounting and Business Law.

LaPrade, Douglas E., Professor, Department of English; 20th Century American Literature; Ph.D., University of Illinois, 1988.

Lawrence-Fowler, Wendy A., Vice Provost for Research; Professor, Department of Computer Science; Databases, Large Open Information Systems, Information Retrieval, Artificial Intelligence; Ph.D., The Ohio State University, 1983.

Lawton, Sean Dodd, Assistant Professor, Department of Mathematics, Ph.D., University of Maryland, 2006.

Leach, Stephen, Assistant Professor, Department of History and Philosophy; Ph.D., University of New Mexico-Albuquerque, 1999.

Lee, Kye-Hwan, Assistant Professor, Department of Manufacturing Engineering; CAD, Plastics Processing and Product Design, Mold Design and Analysis; Ph.D., University of Massachusetts-Lowell, 1997.

Lemanski, Jennifer, Assistant Professor, Department of Communication, Journalism.

LeMaster, Edwin W., Dean, College of Science and Engineering; Professor, Department of Electrical Engineering; Electrical Engineering, Remote Sensing, Solid State Physics; Ph.D., The University of Texas at Austin, 1970.

LeMaster, Jane, Professor, Department of Management, Marketing and International Business; Management; Organization Theory and Policy; Ph.D., University of North Texas, 1994.

Levinson, Irving W., Assistant Professor, Department of History and Philosophy; Ph.D. in History, University of Houston, 2003.

Li, Jianzhi (James), Assistant Professor, Department of Manufacturing Engineering Industrial Engineering; Ph.D., Texas Tech University, 2003.

Li, Junfei, Associate Professor, Department of Electrical Engineering; Electrical and Computer Engineering; Ph.D., The University of Texas at Austin, 2002.

Liebowitz, Stephen W., Associate Professor, Department of Sociology; Social Psychology, Statistics; Ph.D., University of Missouri-Columbia, 1979.

Lieman, Jonathan H., Assistant Professor, Department of Biology; Biology/Biomed Science (MOL Cell Biol.); Ph.D., Washington State University-St. Louis, 2004.

Lin, Yuankun, Assistant Professor, Department of Physics and Geology; Physics; Ph.D., University of British Columbia-Canada, 2000.

Liu, Fang, Assistant Professor, Department of Computer Engineering and Computer Science, Ph.D., George Washington University, 2007.

Liu, Lai, Associate Professor, Department of Computer Information Systems and Quantitative Methods; Ph.D., Mississippi State University, 1989.

Liu, Yang, Assistant Professor, Department of Computer Science, Ph.D., Texas A&M University, 2009.

Lloyd, John, Research Professor, Department of Manufacturing Engineering, Ph.D., University of Minnesota, 1971.

Loera, Francisco, Lecturer, Department of Music and Dance; Spanish, Music and Popular Culture.

Lonard, Robert I., Research Professor, Department of Biology.

Lopez, Luis Alfonso, Lecturer, Department of Music and Dance, Master of Music, The University of Texas-Pan American, 2007.

Lovett, Bobbie, Lecturer, Department of Psychology and Anthropology, MA, The University of Texas-Pan American, 1991.

Lowdermilk, John L., Assistant Professor, Department of Educational Psychology; Assistive Technology; Ph.D., University of North Texas, 2004.

Lowe, Jerry M., Professor, Department of Educational Leadership; Ed.D., Texas A&M University, 1989.

Lowe, Kristine L., Assistant Professor, Department of Biology; Applied Biology; Ph.D., Georgia Institute of Technology, 1999.

Lozano, Karen, Professor, Department of Mechanical Engineering; Composites, Nano-Structured Materials, Polymer Engineering; Ph.D., Rice University, 1999.

Lucero, Amarante, Visiting Professor, Department of Communication, MFA, Southern Methodist University, 1978.

Lyles, Donald "Jerry", Assistant Professor, Department of Art, MFA, American University, Washington, D.C., 2000.

Lynch, Cynthia E., Assistant Professor, Department of Public Administration.

Lynch, Robert, Lecturer, Department of Criminal Justice.

Macias, Maria E., Assistant Professor, Department of Art, MFA, The University of Texas-Pan American, 2001.

Macossay-Torres, Javier, Assistant Professor, Department of Chemistry; Organic/Polymer Chemistry; Ph.D., Louisiana State University, 1995.

Mahmood, Salma, Lecturer, Department of Mathematics, MS, Texas Southern University, 1990.

Mahon, Joan, Lecturer, Department of Nursing, Ph.D., Texas Woman's University, 2001.

Maloy, Lee R., Master Sgt., Senior Military Instructor, Department of Military Science.

Mancha, Jaime Javier, Lecturer, Department of Undergraduate Studies, M.Ed., The University of Texas-Pan American, 2006.

Mann, Frederick D., Lecturer, Department of Communication; Journalism, Educational Technology; MEd., Texas A&M University-Commerce, 1976.

Marini, Irmo, Doctoral Program Coordinator and Professor, Department of Rehabilitation Services; Certified Rehabilitation Counselor; Ph.D., Auburn University, 1992.

Martin-Ochoa, Luz Maria, Assistant Professor, Department of Modern Languages and Literature; Spanish, Literature and Creative Writing.

Martinez, David, Associate Professor, Department of Art, MFA, The School of Art Institute of Chicago, 1997.

Martinez, Glenn A., Chair and Associate Professor, Department of Modern Languages and Literature; Spanish, Linguistics; Ph.D., University of Massachusetts, 2000.

Martinez, José M., Associate Professor, Department of

Modern Languages and Literature; Hispanic Literature; Ph.D., Universidad de Valladolid, Spain, 1991.

Martinez, Kurt, Assistant Professor, Department of Music and Dance, DMA, The University of Texas at Austin, 2003.

Martinez, Pedro, Assistant Professor and Chair, Department of Music; DMA, University of Minnesota, 2004.

Maruno, Kenichi, Assistant Professor, Department of Mathematics.

Mata, Jennifer R., Assistant Professor, Department of History and Philosophy; American Studies; Ph.D., Washington State University-Pullman, 2004.

Mata-Pistokache, Teri, Associate Professor and Interim Chair, Department of Communication Sciences and Disorders; Multicultural/Multilingual; Ph.D., The University of Texas at Austin, 1995.

Materon, Luis A., Associate Professor, Department of Biology; Food Microbiology, Microbial Ecology, Biological Nitrogen Fixation; Ph.D., Mississippi State University, 1982.

Matthews, Linda Sargent, Associate Professor, Department of Management, Marketing and International Business; Management; Ph.D., University of Washington, 1996.

Maville, Janice A., Interim Chair, Department of Communication Sciences and Disorders and Professor, Department of Nursing; Ed.D., Texas A&M University, 1992.

Maxfield, Maxine Katherine, Assistant Professor, Department of Communication Disorders, Ph.D., The University of Texas-Dallas, 1997.

Mazariegos, Ruben A., Associate Professor, Department of Physics and Geology; Geophysics; Ph.D., Texas A&M University, 1993.

McBride, John, Professor, Department of Curriculum and Instruction; Elementary, Science Education, Mathematics Education; Ed.D., University of Houston, 1978.

McCracken, Ila Moriah, Assistant Professor, Department of English, Ph.D., Texas Christian University, 2008.

McDonald, J. Andrew, Assistant Professor, Department of Biology; Botany; Ph.D., The University of Texas at Austin, 1982.

McGlynn, Adams, Assistant Professor, Department of Political Science, Ph.D., State University of New York at Stony Brook, 2007.

McIntyre, John, Lecturer, Department of Health and Kinesiology, MS, The University of Texas-Pan American, 2001.

McMahon, Marci, Renee, Assistant Professor, Department of English, Ph.D., University of Southern California, 2007.

McQuillen, Jeffrey, Associate Professor, Department of Communication; Communication Studies; Ph.D., The University of Oklahoma, 1984.

McQuillen, Marcolfa, Lecturer, Department of Undergraduate Studies, MA, The University of Texas-Pan American, 2001.

McWilliams, Cynthia, Assistant Professor, Department of History and Philosophy; Ph.D., University of Missouri, 2001.

Meadows, Bryan Hall, Assistant Professor, Department of English, Ph.D., University of Arizona, 2009.

Medrano, Hilda, Professor, Department of Curriculum and Instruction; Curriculum and Instruction, Reading and Language Arts; Ph.D., The University of Texas at Austin, 1985.

Mejias, Hugo, Associate Professor, Department of Modern Languages and Literature; Spanish, Linguistics; Ph.D., State University of New York at Buffalo, 1978.

Mellen, Graciela Maria, Lecturer, Department of Nursing.

Menchaca, Velma, Professor, Department of Educational Leadership; Curriculum and Instruction; Ph.D., Texas A&M University, 1991.

Mery, Adelle, Lecturer, Department of English; American Literature, World Literature; Ph.D., Texas A&M University, 1990.

Midha, Vishal, Assistant Professor, Department of Computer Information Systems, Ph.D., University of North Carolina, 2007.

Mihut, Dorina, Assistant Professor, Department of Mechanical Engineering.

Mikolasky, Peter (Trey) S., Lecturer, Department of Communication; Communication Studies, TV/Theatre/Film.

Milan, Cindy L., Associate Professor, Department of Nursing; Administration and Supervision; Ed.D., University of Houston, 1997.

Miles, Caroline S., Assistant Professor, Department of English; Ph.D., University of Southern Mississippi, 2002.

Miles, Michael G., Enlisted Instructor, Department of Military Science; Master Sgt. (Retired), U.S. Army.

Miller, Christopher L., Associate Professor, Department of History and Philosophy; History, U.S. Colonial, 19th

Century, Native American; Ph.D., University of California, Santa Barbara, 1981.

Miller, Eva, Associate Professor and Masters Program Coordinator, Department of Rehabilitation Services; Rehabilitation Psychology; Ph.D., University of Arizona, 1999.

Minor, Michael, Professor and Director of Ph.D. Program, Department of Management, Marketing and International Business; Marketing; Ph.D., Vanderbilt University, 1987.

Mitchell, Jo Ann, Professor, Department of Educational Psychology; Special Education, Educational Psychology, School Psychology; Ph.D., The University of Oklahoma, 1979.

Mitchell, Rebecca N., Assistant Professor, Department of English; Comparative Literature; Ph.D., University of California, 2003.

Mollick, André V., Associate Professor, Department of Economics and Finance; Socio-Economic Planning; Ph.D., University of Tsukuba, 1996.

Mondal, Jalal U., Professor, Department of Chemistry; Inorganic Chemistry; Ph.D., University of New South Wales, 1979.

Monforte, Jessica Lavariega, Assistant Professor, Department of Political Science.

Monta, Marian F., Professor Emeritus, Department of Communication; Theatre/TV/Film; Ph.D., Cornell University, 1971.

Montero-Aguilar, Sophia, Lecturer, Department of Undergraduate Studies, M.Ed., The University of Texas-Pan American, 2005.

Montgomery, Gary T., Professor, Department of Psychology and Anthropology; Psychology, Developmental, Psychophysiology; Ph.D., Texas Tech University, 1972.

Mora, Marie T., Professor, Department of Economics and Finance; Ph.D., Texas A&M University, 1996.

Morales, Kelly, Lecturer, Department of Undergraduate Studies, Ed.D., University of Houston, 2008.

Morgan, Glynn, Associate Professor, Department of Political Science; U.S. and Texas Politics; MA, The University of Mississippi, 1961.

Morrison, Robert, Lecturer, Department of Management, Marketing and International Business; Management, Indiana State University, 2008.

Mottet, Timothy, Professor, Department of Communication; Communication Studies,

Mounce, Gary, Associate Professor, Department of Political Science; Mexico, Central and South American Politics; Ph.D., The University of Texas at Austin, 1977.

Moyes, Glen, Associate Professor, Department of Accounting and Business Law; Accounting; DBA, U.S. International University-California, 1991.

Mukherjea, Arunava, Professor, Department of Mathematics, Ph.D., Wayne State University, 1967.

Munn, Christopher, Professor, Department of Music; Music Theory, Music History; University Choir Director; DMA, The University of Oklahoma, 1991.

Munn, Vivian, Associate Professor, Department of Music; Voice, Music Theory; DMA, The University of Oklahoma, 1990.

Muñoz, Francisco, III, Lecturer, Department of Music and Dance; Health and Physical Education and Educational Supervision; MEd, Pan American University, 1977.

Myers, Deborah L., Assistant Professor, Department of Health and Kinesiology; Exercise Science; Ph.D., University of Mississippi, 1998.

Nadeau, Nancy G., Lecturer, Department of Nursing.

Nambiar, Rajiv V., Associate Professor, Department of Manufacturing Engineering; Computer-Aided Design, Manufacturing Processes; Mechanical Engineering; Ph.D., The University of Texas at Arlington, 1989.

Nasif, Ercan, Associate Professor, Department of Management, Marketing and International Business; Management; Ph.D., University of North Texas, 1988.

Neumann, Jacob William, Assistant Professor, Department of Curriculum and Instruction, M.Ed., University of Houston, 2002.

Nevárez, Miguel A., Professor, Department of Educational Leadership; Executive Director, Coastal Studies Lab; Retired President, The University of Texas-Pan American; Science Education; Ph.D., New York University, 1972.

Newman, Beatrice, Professor, Department of English; Rhetoric and Composition, 19th Century British Literature, Linguistics; Ph.D., Texas A&M University, 1981.

Newman, Donald, Professor, Department of English; 18th Century British Literature, Johnson and Boswell Studies, Biography; Ph.D., University of Southern California, 1992.

Newman, Jennifer Ann, Lecturer, Department of History and Philosophy, Ph.D., Auburn University, 2009.

Nieto, Beatriz, Assistant Professor, Department of Nursing;

Ph.D., The University of Texas Health Science Center at San Antonio, 2005.

Ng, Peter A., Professor, Department of Computer Science; Document Processing Engineering and Databases; Ph.D., The University of Texas at Austin, 1974.

Ngo, Thanh Ngoc, Assistant Professor, Department of Economics and Finance; Finance, Ph.D., Florida Atlantic University, 2007.

Nguyen, Mau Nam, Assistant Professor, Department of Mathematics, Ph.D., Wayne State University, 2007.

Nguyen, Nam, Lecturer, Department of Mathematics, MS, The University of Texas-Pan American, 2004.

Noe, Joe Markus, Associate Professor, Department of English Rhetoric and Composition, Ph.D., Texas Christian University, 2001.

Nuss, Melynda, Assistant Professor, Department of English; Ph.D., The University of Texas at Austin, 2003.

Ochoa, Salvador H., Dean, College of Education; Professor, Department of Educational Psychology; School Psychology; Ph.D., Texas A&M University, 1989.

Oh, Jing-il, Assistant Professor, Department of Health and Kinesiology, Ph.D., The University of Alabama, 2007.

O'Neil, Lorne William, Professor, Department of Music; Woodwinds; DMA, University of Minnesota, 1990.

Olszewsky, Steven, Assistant Professor, Department of Accounting and Business Law, Ph.D., Texas A&M University, 2003.

Onica, Constantin, Assistant Professor, Department of Mathematics, Ph.D., Texas A&M University, 2005.

Ostorga, Alcione, Assistant Professor, Department of Curriculum and Instruction; Ph.D., Fordham University-New York, 2002.

Otto, Debra, Assistant Professor, Department of Nursing; MSN, University of Phoenix, 1995.

Overton, Terry, Professor, Department of Educational Psychology; Special Education; Ed.D., Texas Woman's University, 1985.

Ozuna, Teofilo, Interim Dean, College of Business Administration; Professor and Dean, Department of Economics and Finance; Economics; Ph.D., Texas A&M University, 1989.

Pace, Lorenzo, Professor, Department of Art, Ph.D., Ed.D., Illinois State University, 1978.

Pagan, Joel, Assistant Professor, Department of Music and Dance, DMA, Michigan State University, 2004.

Pagán, José A., Professor, Department of Economics and Finance; Economics; Ph.D., The University of New Mexico, 1995.

Pankake, Anita, Professor and Director of the Doctoral Program, Department of Educational Leadership; Ed.D., Loyola University of Chicago, 1985.

Parchman-Gonzalez, Keri, Lecturer and Interim Coordinator, Department of Communication Sciences and Disorders; MA, The University of Texas-Pan American, 1989.

Park, Young-Gil, Assistant Professor, Department of Mechanical Engineering, Ph.D., University of Illinois, 2007.

Parsons, Jason, Assistant Professor, Department of Chemistry, Ph.D., The University of Texas El Paso, 2003.

Pastrano, Jose Guillermo, Assistant Professor, Department of History and Philosophy; History, Ph.D., University of California, Santa Barbara, 2006.

Pazdera, Donna M., Lecturer, Department of Communication; Journalism, Mass Communications; MA, University of Florida, 2003.

Pearson, Thomas, Associate Professor, Department of History and Philosophy, Ph.D, Southern Illinois University-Carbondale, 1994.

Pecina, Julia, Lecturer, Department of Educational Psychology; Educational Diagnostician; MEd., The University of Texas-Pan American, 1996.

Peña, Carmen M., Associate Professor, Secondary Program, Department of Curriculum and Instruction; Ph.D., University of Iowa, 1995.

Peng, Jun, Assistant Professor, Department of Electrical Engineering; Electrical and Computer Engineering.

Pereya, Nicolás, Lecturer, Department of Physics and Geology.

Perez, Laura E., Assistant Professor, Department of English.

Perez, Maria Alma, Director of Starr County Upper Level Center, Assistant Professor, Department of Curriculum and Instruction; Ph.D., Texas A&M University Kingsville, 1998.

Persans, Michael, Associate Professor, Department of Biology; Plant Biology; Ph.D., University of Illinois, 1998.

Phillips, Richard, Associate Professor, Department of Art; Art History; Ph.D., The University of Texas at Austin, 1993.

Pierce, Virgil Ulysses, Assistant Professor, Department of Mathematics, Ph.D., University of Arizona, 2004.

Pittman, Sharon, Professor, Department of Social Work.

Poelzer, Herold, Associate Professor, Department of Educational Psychology; Educational Psychology, Gifted Education; Ph.D., Purdue University, 1994.

Poletaeva, Elena, Assistant Professor, Department of Mathematics.

Polinard, J.L., Professor and Chair, Department of Political Science; Public Law, Minority Politics; Ph.D., The University of Arizona, 1970.

Pontius, Paul, Assistant Professor, Department of Mathematics; Mathematics Education; MA, University of Illinois, 1964.

Pozorski, Shelia, Professor, Department of Psychology and Anthropology; Anthropology, New World Archaeology, Archaeological Method and Theory, Ethnobiology, Museum Studies; Ph.D., The University of Texas at Austin, 1976.

Pozorski, Thomas, Anthropology Coordinator and Professor, Department of Psychology and Anthropology; Anthropology, New World Archaeology, South American Culture, Complex Societies; Ph.D., The University of Texas at Austin, 1976.

Qiao, Zhijun, Associate Professor, Department of Mathematics; Ph.D., Fudan University-People's Republic of China, 1997.

Qin, Hong, Assistant Professor, Department of Quantitative Methods, University of North Texas, 2009.

Qu, Zhe, Assistant Professor, Department of Computer Information Systems and Quantitative Methods, Ph.D., George Institute of Technology, 2008.

Qubbaj, Ala R., Associate Professor, Department of Mechanical Engineering; Ph.D., The University of Oklahoma, 1999.

Raajpoot, Uzzer A., Associate Professor, Department of Sociology; Statistics, Methods, Demography; Ph.D., University of Oregon, 1991.

Ragland, Catherine A., Assistant Professor, Department of Music and Dance, Ph.D., University Center, The City University of New York, 2005.

Rai, Rajendra, Lecturer, Department of Mathematics, Ph.D., Dalhousie University, 1980.

Raimo, John, Professor Emeritus, Department of Music; Piano, Music Literature; DMA, Eastman School of Music, University of Rochester, 1960.

Raley, Jessica, Lecturer, Department of Communication,

Ph.D., The University of Texas at Austin, 2008.

Ramirez, Ernesto F., Lecturer, Department of Undergraduate Studies, M.Ed., The University of Texas-Pan American, 2005.

Ramirez, Isidro, Instructor, Cooperative Pharmacy Program.

Ramirez, Mark, Assistant Professor, Department of Music and Dance, DMA, The University of Texas at Austin, 2005.

Ramirez, Noe, Associate Professor, Department of Social Work; MSW, Our Lady of the Lake University, 1989; Ph.D., University of Houston, 1998.

Ramirez, Olga M., Professor, Department of Mathematics; Mathematics Education; Ph.D., Texas A&M University, 1985.

Ramirez, Sylvia, Associate Professor, Department of Educational Psychology; Ph.D., University of Wisconsin-Madison, 1988.

Ramos, José, Master Sgt., Department of Military Science; ROTC 1201, 1202, 3201, 3202.

Rampersad-Ammons, Joanna N., Assistant Professor, Department of Chemistry; Biochemistry.

Ray, Partha, Lecturer, Department of Mathematics, MS, The University of Texas-Pan American, 2006.

Rea, Ramiro R., Associate Professor, Department of Modern Languages and Literature; Spanish; MA, Sam Houston State University, 1970.

Reed, Bruce J., Dean, College of Health Sciences and Human Services; Professor, Department of Rehabilitation Services; Certified Rehabilitation Counselor, Certified Vocational Evaluator; Ph.D., University of Northern Colorado, 1993.

Reed, Joan Mueller, Lecturer, Department of Undergraduate Studies, Ph.D, University of Nebraska-Lincoln, 2005.

Reed, Michael D., Professor, Department of English; Colonial and 19th Century American Literature, Psychoanalytic Criticism, Logic; Ph.D., University of Oregon, 1974.

Reid, Charles R., Associate Professor, Department of Rehabilitation Services; Certified Rehabilitation Counselor; Ph.D., University of Arizona, 1997.

Reidhead, Van A., Dean, College of Social and Behavioral Sciences; Professor, Department of Psychology and Anthropology.

Resendiz, Rosalva, Associate Professor, Department of Criminal Justice; Criminology and Deviance, Critical Race Theory, Corrections, Women's Studies; Ph.D., Texas Woman's University, 2001.

Reyes, Maria E., Professor, Department of Curriculum and Instruction.

Reyna, Edna, Lecturer, Department of Nursing, MS, The University of Texas-Pan American, 2007.

Reyna, Maria E., Assistant Professor, Clinical Laboratory Science Program; Clinical Psychology; MA, The University of Texas-Pan American, 2004.

Riahi, Daniel N., Professor, Department of Mathematics.

Rice, Cynthia, Assistant Professor, Department of Educational Psychology, Ph.D., Texas Tech University, 2006.

Richardson, D. Chad, Professor, Department of Sociology; Borderlands Studies, Sociology of Education, Complex Organizations; Ph.D., The University of Texas at Austin, 1975.

Rieke, R. Neal, Assistant Professor, Department of Communication; Communication Studies; MS, MPA, North Texas State University, 1976.

Rivas, Belinda, Clinical Specialist, Department of Rehabilitation Services.

Rivera, Gustavo, Lecturer, Department of Mathematics; Mathematics and Computer Networks; MS, The University of Texas-Pan American, 1996.

Rivers, Christopher, Col., Assistant Professor, Military Science; Liberal Studies; BA, University of New York, 1990.

Rodríguez, Ana Maria, Senior Vice Provost for Undergraduate Studies; Associate Professor, Department of Educational Psychology; Guidance and Counseling; Ed.D., University of Houston, 1976.

Roeder, Scott, Assistant Professor, Department of Music and Dance, Doctor of Musical Arts, University of Wisconsin - Madison, 2008.

Rogé, Joseph, Associate Professor, Department of Computer Information Systems and Quantitative Methods; Computer Information Systems; Ph.D., Louisiana Tech University, 1995.

Rogers, Darrin L., Assistant Professor, Department of Psychology and Anthropology.

Rombough, Shirley, Associate Professor, Department of Social Work; BA, Long Beach State University.

Romero, Hector R., Professor, Department of Modern Languages and Literature; Spanish Literature; Ph.D., University of Illinois at Urbana-Champaign, 1970.

Romero, Reynaldo, Lecturer, Department of Modern

Languages and Literature, Ph.D., Georgetown University, 2009.

Romero, Zasha, Lecturer, Department of Health and Kinesiology; Kinesiology.

Roy, Ranadhir, Assistant Professor, Department of Mathematics, Ph.D., University of Hertfordshire, 1997.

Roychowdhury, Mrinal Kanti, Assistant Professor, Department of Mathematics, Ph.D., Wesleyan University, 2005.

Ruiz-Escalante, Jose, Professor, Department of Curriculum and Instruction; Ed.D., University of Washington, 1987.

Ryabov, Igor, Assistant Professor, Department of Sociology, Ph.D., Bowling Green State University, 2005.

Ryman, Jeannean, Lecturer, Department of Health and Kinesiology; Physical Education; MEd, Pan American University, 1980.

Saavedra, Dora E., Associate Professor, Department of Communication; Communication Studies; Ph.D., University of Kansas, 1994.

Saavedra, Marisa, Lecturer, Department of Communication, MA, Texas State University, 2003.

Saenz, Laura M., Assistant Professor, Department of Educational Psychology; Ph.D., Vanderbilt University, 2002.

Saka, Paul, Assistant Professor, Department of History and Philosophy

Saladin, Shawn P., Assistant Professor, Department of Rehabilitation Services; Special Education; Ph.D., The University of Texas at Austin, 2004.

Salas, Jaime Ramos, Assistant Professor, Department of Electrical Engineering, Ph.D., Stanford University, 1976.

Saldívar, José R., Lecturer, Department of Undergraduate Studies; Education; MA, Stanford University, 2002.

Salinas, Sonya, Lecturer, Department of Communication Sciences and Disorders; MA, The University of Texas-Pan American, 1991.

Sánchez, M. Sandra (Sandy), Associate Professor, Department of Nursing; Ph.D., The University of Texas at Austin, 1997; CNM, State University of New York-Downstate, 1977.

Sanders, Karen, Associate Professor, Department of Art, MFA, University of Michigan, 2003.

Santiago, Reynaldo, Professor, Department of Art; MFA, Rochester Institute of Technology, 1983.

Sargent, John, Professor, Department of Management, Marketing and International Business; Management; Ph.D., University of Washington, 1994.

Sarkar, Kamal, Lecturer, Department of Mechanical Engineering, Ph.D., University of Tennessee, 1980.

Sarmiento-Arribalzaga, Matilde. O., Assistant Professor, Department of Curriculum and Instruction; Bilingual Education; Ed.D., Texas A&M University-Kingsville, 2005.

Sauceda, Noe, Assistant Professor, Educational Leadership; Ph.D., The University of Texas at Austin, 1995.

Sawyer, Mitchell O., Lecturer, Department of Health and Kinesiology, MS, The University of Texas-Pan American, 2002.

Saywell, Martha Ann, Lecturer, Department of Music and Dance, Master of Music, University of Wisconsin, 2005.

Schall, Janine M., Assistant Professor, Department of Curriculum and Instruction; Language, Reading and Cultural; Ph.D., University of Arizona, 2004.

Schmidt, Marcelo, Lecturer, Department of Health and Kinesiology; Kinesiology; MEd, The University of Texas-Pan American, 1998.

Schneider, Gary, Associate Professor, Department of English; British Renaissance; Ph.D., Wayne State University, 2001.

Schneider, Steven, Professor, Department of English; 20th Century American Literature, Modern and Contemporary Poetry, Multicultural/Literature; Ph.D., University of Iowa, 1986.

Schwartz, Amy H., Assistant Dean, College of Health Sciences and Human Services, Director, Cooperative Pharmacy Program.

Schweller, Robert T., Assistant Professor, Department of Computer Science, Ph.D., Northwestern University, 2007.

Seale, Carl, Professor Emeritus, Department of Music and Dance, DMA, University of North Texas, 1971.

Seitz, Diana Il'inichna, Assistant Professor, Department of Music and Dance; Music, DMA, University of Oklahoma, 2008.

Selber, Gregory, Professor, Department of Communication; Journalism; Ph.D., The University of Texas at Austin, 2001.

Selber, Kimberly, Assistant Professor, Department of Communication; Advertising; Ph.D., The University of Texas at Austin, 2001.

Semper, Louis T., Associate Professor and Kinesiology Program Coordinator, Department of Health and Kinesiology; Physiology of Exercise and Secondary School Methods; Ph.D., Texas A&M University, 1971.

Shackelford, Dana, Assistant Professor, Department of Music and Dance; Dance; MFA, Arizona State University, 2001.

Sharp, Ethan P., Assistant Professor, Department of Modern Languages and Literature; Latin American Studies.

Shefcik, Thomas E., Associate Professor and Interim Chair, Department of Rehabilitation Services; Certified Insurance Rehabilitation Specialist, Certified Rehabilitation Counselor; MS, Oklahoma State University, 1983.

Shen, Yih-Jiun, Assistant Professor, Department of Educational Psychology, D.Ed, The Pennsylvania State University, 1998.

Sheng, Xiaojing, Assistant Professor, Department of Management, Marketing and International Business; Marketing, University of Tennessee, 2008.

Sibley, Keith, Lecturer, Department of Communication Sciences and Disorders; American Sign Language, Deaf Studies/Habilitation; MS, Lamar University, 1996.

Silva, Santiago, Assistant Professor, Department of Educational Psychology; Counseling and Psychology; Ph.D., University of Wisconsin-Madison, 1991.

Simonsson, Marie V., Associate Professor, Department of Educational Leadership; Administration and Supervision; Ed.D., University of Houston, 1998.

Simpson, Penny, Associate Dean, College of Business Administration, Professor, Department of Management, Marketing and International Business; Marketing; Ph.D., Louisiana Tech University, 1992.

Skidmore, Susan Troncosco, Assistant Professor, Department of Psychology and Anthropology, MA, **Texas A&M University, 2007.**

Skinner, José, Associate Professor, Department of English; Creative Writing; MFA, University of Iowa, 2002.

Skow, Donald P., Lecturer, Department of Mathematics; Mathematics; MS, East Texas State University, 1971.

Smith, Kenneth C., Assistant Professor, Department of Chemistry, Ph.D., Purdue University, 2007.

Smolarski, Jan, Associate Professor, Department of Accounting and Business Law, Ph.D., University of North Texas

Solís, Raúl H., Program Director and Assistant Professor,

Department of Social Work; Mexican-American Experience, Generalist Social Work, Occupational Social Work, International Social Work, Field Education; MSW, Our Lady of the Lake University, 1974.

Son, Jaesok, Associate Professor, Department of Electrical Engineering; Computer Engineering, Synthetic Aperture Radar, Radar Signal Processing and Target Recognition, Speech and Image Compression, Digital and Voice Communication; Ph.D., The University of Texas at El Paso, 1998.

Soydemir, Gokce, Professor, Department of Economics and Finance; Finance and International Economics; Ph.D., Claremont Graduate School, 1997.

Sparrow, Gregory S., Assistant Professor, Department of Educational Psychology; Counseling; Ph.D., College of William and Mary, 1983.

Stanley, Jack R., Professor, Department of Communication; Journalism, Theatre/TV/Film; Ph.D., Texas Christian University, 1973.

Sturges, David L., Associate Professor, Department of Management, Marketing and International Business; Management, Management Communications; Ph.D., University of North Texas, 1988.

Su, DeJun, Assistant Professor, Department of Sociology; Ph.D., University of Chicago, 2006.

Sullivan, Pamela, Assistant Professor, Department of Nursing; MSN, The University of Texas Health Science Center at Houston, 1991.

Summy, Kenneth R., Associate Professor, Department of Biology; Remote Sensing Technology; Texas A & M University, 1983.

Sun, Jun, Assistant Professor, Department of Computer Information Systems and Quantitative Methods.

Sutter, Daniel, S., Associate Professor, Department of Economics and Finance; Ph.D., George Mason University, 1993.

Swiegart, Donna, Assistant Professor, Department of Art, MFA, Tyler School of Art - Temple University, 2004.

Tanguma, Jesus, Assistant Professor, Department of Computer Information Systems and Quantitative Methods; Ph.D., Texas A&M University, 2000.

Tarawneh, Constantine, Associate Professor, Department of Mechanical Engineering; Ph.D., University of Nebraska-Lincoln, 2003.

Tasnif, Yasar, Assistant Professor, Cooperative Pharmacy Program.

Tavarez, Hiram, Medical Director, Physician Assistant Studies Program; Internal Medicine; M.D., University of Nuevo Leon, Monterrey, México, 1958.

Taylor, Karen, Lecturer, Department of English; American Literature, English Literature; MA, Pan American University, 1980.

Taylor, Monty B., Professor, Department of Mathematics; Commutative Algebra, Multiplicative Lattices; Ph.D., University of Houston, 1988.

Terry, Matthew D., Assistant Professor, Department of Biology.

Tevis, Martha, Professor, Department of Curriculum and Instruction; History and Philosophy of Education, Cultural Foundations of Education, Latin; Ph.D., The University of Texas at Austin, 1967.

Thompson, Frieda, Lecturer, Department of English; American Literature, English Literature; MA, Pan American University, 1989.

Thompson, Shawn C., Assistant Professor, Department of English.

Tidrow, Steven C., Chair, Department of Physics and Geology; Ph.D.

Tijerina, Sandra L., Associate Professor, Clinical Laboratory Sciences Program; MT (ASCP) SBB, CLSpH (NCA); MS, Texas A&M University-Corpus Christi, 1992.

Timmer, Douglas H., Associate Professor and Chair, Manufacturing Engineering Department; Applied Statistics, Statistical Process Control, Design of Experiments, Reliability, Total Quality Management, Statistical Computing and Industrial Engineering; Ph.D., Texas A&M University, 1994.

Tomai, Emmett, Assistant Professor, Department of Computer Science, Ph.D., Northwestern University, 2009.

Torres, J. Rene, Lecturer, Department of Mathematics; Mathematics Education; MS, Texas A&I University, 1971.

Trott, Adriel, Assistant Professor, Department of History and Philosophy; Philosophy, Ph.D., Villanova University, 2008.

Tsai, Ping-Sing, Assistant Professor, Department of Computer Science and Computer Engineering; Image and Multimedia Computing; Ph.D., University of Central Florida, 1995.

Tsay, Jenq-Jong, Assistant Professor, Department of Mathematics.

Turk, William, Associate Professor, Department of Political

Science; Public and Urban Administration; Ph.D., The University of Texas at Arlington, 1997.

Valadez, Paul, Lecturer, Department of Art, MFA, The University of North Carolina at Chapel Hill, 2003.

VanZante, Neal, Associate Professor, Department of Accounting and Business Law, Ph.D., Oklahoma State University, 1976.

Varlamov, Vladimir, Associate Professor, Department of Mathematics; Applied Mathematics; Ph.D., Moscow State University, 1983; Mathematics; Ph.D., University of Breslau, Poland, 1999.

Vasquez, Horacio, Assistant Professor, Department of Mechanical Engineering; Ph.D., University of Alabama-Tuscaloosa.

Vasquez-Parraga, Arturo, Professor, Department of Management, Marketing and International Business; Marketing; Ph.D., Texas Tech University, 1990.

Vielma, Barbara, Lecturer, Department of English; English Literature, World Literature; MA, Pan American University, 1987.

Villalobos, Maria Cristina, Associate Professor, Department of Mathematics; Optimization Theory, Computational and Applied Mathematics; Ph.D., Rice University, 2000.

Villarreal Jr., Elias, Clinical Assistant Professor, Physician Assistant Studies Program; General Surgery, Orthopedics, Hematology and Oncology; Yale University School of Medicine Physician Associate Program, 1997.

Villarreal, John R., Assistant Dean, College of Science and Engineering; Professor, Department of Chemistry; Physical Chemistry; Ph.D., Texas A&M University, 1976.

Villarreal, Marco, Visiting Assistant Professor, Department of Computer Information Systems, MS, Texas A&M International University, 1998.

Villarreal, Velda, Lecturer, Department of Nursing, MSN, The University of Texas-Pan American, 1994.

Villas, Paul, Professor, Department of Health and Kinesiology; Health Education, Public Health; Ed.D., University of Tennessee, 1988.

Vincentnathan, Lynn, Assistant Professor, Department of Psychology and Anthropology; Ph.D., University of Wisconsin-Madison, 1987.

Vincentnathan, S. George, Professor and Chair, Department of Criminal Justice; Criminology, Corrections International Crime and Justice; D.Crim., University of California,

Berkley, 1973.

Vitek, Christopher J., Assistant Professor, Department of Biology, Ph.D., Clark University, 2004.

Von Ende, Frederick, Professor, Department of English; English Literature; Ph.D., Texas Christian University, 1972.

Voss, Judy, Lecturer, Department of Nursing; MSN, The University of Texas Health Science Center at Houston, 1991.

Waite, Charles V., Assistant Professor, Department of History and Philosophy; Ph.D., Texas Tech University, 1999.

Wallace, Edward F., Lecturer, Department of History and Philosophy; MA, Rollins College, 1999.

Wang, Bailey, Associate Professor, Department of Communication Sciences and Disorders; Audiology; Ph.D., University of Kansas, 1997.

Wang, Bin, Assistant Professor, Department of Computer Information Systems and Quantitative Methods; Ph.D., University of Minnesota, 2004.

Wang, Guang-zhen, Professor and Chair, Department of Sociology; Ph.D., University of North Texas, 1996.

Wang, Lei, Assistant Professor, Department of Management, Marketing and International Business; Management; Ph.D., New Mexico State University, 2005.

Wang, Lin, Assistant Professor, Department of Health and Kinesiology, Ph.D., University of Virginia, 2007.

Wang, Xiaohui (Sophie), Assistant Professor, Department of Mathematics; Statistics; Texas A&M University, 2006.

Wang, Xusheng, Assistant Professor, Department of Computer Science; Virtual Reality and Web-based Applications; Ph.D., George Mason University, 2003.

Warren, Brian, Lecturer, Department of Communication; Theatre/TV/Film; MA, The University of Texas-Pan American, 2001.

Watkins, William, Professor, Department of Mathematics; Topology, Semigroups, Microcomputers; Ph.D., University of Wyoming, 1980.

Watt, Karen, Associate Professor, Department of School Administration and Supervision, Educational Leadership; Ph.D., The University of Texas at Austin, 1999.

Weaver, Michael K., Associate Dean, College of Arts and Humanities; Associate Professor, Department of History and Philosophy and Department of Modern Languages and Literature; British Modern European History; Ph.D., University of North Carolina at Chapel Hill, 1989.

Wedig, Cindy M., Lecturer, Department of Biology; Dairy

Science, Nutritional Biochemistry; Ph.D., University of Illinois, 1987.

Weger, Lewis C., Assistant Clinical Professor, Physician Assistant Studies Program; MS, University of Nebraska Medical Center, 1998.

Weimer, Amy A., Assistant Professor, Department of Psychology and Anthropology.

Wenzel, James P., Associate Professor, Department of Political Science; Public Law, Methods; Ph.D., University of Houston, 1993.

Weisstein, Fei Luis, Assistant Professor, Department of Management, Marketing and International Business; Marketing, Ph.D., University of Illinois, 2009.

Welbourne, Jennifer, Assistant Professor, Department of Management, Marketing and International Business; Management, Ph.D., Ohio State University, 1999.

West, Thomas M., Lecturer, Department of English; 18th Century British Literature; Ph.D., The University of Texas at Austin, 1982.

Whelan, Thomas, Associate Professor, Department of Chemistry; Chemistry; Ph.D., Texas A&M University, 1971.

White, Thomas G., Assistant Professor, Department of Criminal Justice.

Wiener, Bella, Lecturer, Department of Mathematics; Mathematics Education, European Methods; MS, Vitebsk State University, USSR, 1968.

Wiley, Eric, Professor, Department of Communication; Theatre/TV/Film; Ph.D., Louisiana State University, 1999.

Williams, Jacquelyn, Clinical Specialist, Department of Nursing; MS, University of Southern California, 1998; MSN, The University of Texas-Pan American, 2003.

Williamson, Eric M., Associate Professor, Department of English; English and American Literature, Creative Writing; Ph.D., New York University, 1998.

Wilson, Bruce K., Professor, Department of Nursing; Ph.D., North Texas State University, 1987.

Wimberly, Cory M., Assistant Professor, Department of History and Philosophy.

Winkel, Mark H., Associate Professor, Department of Psychology and Anthropology; Psychology, Cognitive Social Psychology, Law and Psychology; Ph.D., Oklahoma State University, 1982.

Wirts, Kristine, Associate Professor, Department of History and Philosophy; Ph.D., Auburn University, 2003.

Wisener, Robert H., III, Assistant Professor, Department of Psychology and Anthropology; Psychology, School, Clinical; Ed.D., University of Northern Colorado, 1975.

Wrinkle, Robert, Professor, Department of Political Science; Public Policy, Urban Politics, Methodology; Ph.D., University of Arizona, 1967.

Writer, Justin Edward, Assistant Professor, Department of Music and Dance, Ph.D. of Musical Arts, University of Oklahoma, 2007.

Wu, Sabin, Assistant Professor, Department of Management, Marketing and International Business; Strategic Management and Organizational Theory; ABD, Ph.D., University of Wisconsin-Madison, 2004.

Yagdjian, Karen, Associate Professor, Department of Mathematics; Ph.D., Moscow State University, 1990.

Yanes, Martha Jeanne, Associate Professor, Department of Curriculum and Instruction, Ed.D., Nova Southeastern University, Fort Lauderdale, Florida, 2001.

Yanev, George P., Assistant Professor, Department of Mathematics, Ph.D., University of South Florida, 2001.

Yoon Ann, Eun-Mee, Lecturer, Department of Mathematics, MS, Iowa State University, 2006.

Yoon, Jasang, Assistant Professor, Department of Mathematics, Ph.D., Iowa State University, 2003.

Young, Randall Frederick, Assistant Professor, Department of Accounting and Business Law, Ph.D., University of North Texas, 2008.

Zaidan, Frederic, Assistant Professor, Department of Biology; Biological Sciences; Ph.D., University of Arkansas, 2001.

Zarate, Arnaldo, Lecturer, Department of History and Philosophy.

Zarnowski, Robert, Assistant Professor, Department of Biology, Ph.D., University of Environmental & Life Sciences, 2002.

Zeng, Liang, Associate Professor, Department of Physics and Geology.

Zents, Jeffrey W., Lecturer, Department of History and Philosophy.

Zhou, Haiyan, Assistant Professor, Department of Accounting and Business Law; Ph.D., Temple University, 2003.

Zolfagharian, Mohammedli, Assistant Professor, Department of Management, Marketing and International Business; Marketing.

Emeritus Faculty

Anzaldúa, Hermila, Department of Social Work

Baca, Ernest J., Department of Biology

Clark, Theodore, Department of History and Philosophy

Dominguez, Sylvia, Department of Modern Languages and Literature

Evans, James L., Department of English

Garcia, Lino, Department of Modern Languages and Literature

Grantz, Carl, Department of English

Gratz, Elizabeth, Department of Curriculum and Instruction

Judd, Frank W., Department of Biology

Levine, Bert, Department of Psychology and Anthropology

Lonard, Robert I., Department of Biology

Miller, Hubert, Department of History and Philosophy

Monta, Marian, Department of Communication

Noyes, Lillian, Department of Political Science

Parkinson, Charles, Department of Health and Kinesiology

Phillips, Phyllis, Department of Curriculum and Instruction

Schaefer, Geralda, Department of Mathematics

Stratton, Porter, Department of History and Philosophy

Vassberg, Lilliane, Department of Modern Languages and Literature

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