


THE UNIVERSITY OF TEXAS PAN AMERICAN



2007 – 2009 GRADUATE CATALOG



THE UNIVERSITY OF TEXAS-PAN AMERICAN 2007 — 2009 GRADUATE CATALOG

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

*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)

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

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

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2007-2009 GRADUATE CATALOG



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★ 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 or disability. 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 of the University Center, telephone 956/381-2260. Inquiries concerning ADA should be directed to the coordinator of Services for Persons with Disabilities, Emilia Schunior Ramirez Hall, Room 100, 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 2007-2009

Dates and deadlines for applications for student loans, scholarships or other financial aid are set by 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 or 7585, 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 2007 ★

March 26, 2007, Monday (tentative)
ASSIST registration (Web) begins by appointment for fall 2007.

April 20, 2007, Friday
Deadline to file Application for Degree Form with the Office of the Registrar for December 2007 graduation.

August 24, 2007, Friday
Housing move-in begins at 9 a.m.
Cafeteria is open for lunch and dinner.

August 27, 2007, Monday
First day of classes.

September 3, 2007, Monday
Labor Day holiday, no classes, campus closed.
Cafeteria is open.

September 12, 2007, Wednesday
Twelfth class day, census date.

September 12, 2007, Wednesday
Twelfth class day, census date.

September 14, 2007, Friday
Deadline to file Application for Degree Form with the Office of the Registrar for May 2008 graduation.

September 25, 2007, Tuesday
Last day to drop a course or to withdraw from the University with a grade of "DR" or "W" recorded; last day to change to non-credit.

October 22, 2007, Monday (tentative)
ASSIST registration (Web) begins by appointment for spring, miniterm, summer I and summer II 2008.

November 21, 2007, Wednesday
Last day to drop courses or withdraw through the Office of the Registrar.
Residence Halls close at 6 p.m.
Cafeteria is open for breakfast and lunch only.

November 22-23, 2007, inclusive
Thanksgiving holiday, no classes.
Cafeteria is closed Thursday through Saturday.

November 25, 2007, Sunday
Residence Halls reopen at 12 noon.
Cafeteria is open for dinner only.

December 5, 2007, Wednesday
Deadline to file Application for Degree Form with the Office of the Registrar for July 2007 graduation.

December 6-7, 2007, inclusive
Limited departmental final examinations.
Dead days.

December 8-13, 2007, inclusive
Fall semester final examinations.

December 13, 2007, Thursday
Residence Halls close at 6 p.m.
Cafeteria is open for breakfast and lunch only.

December 14, 2007 Friday
Fall final grades to be entered by faculty no later than 3 p.m.

December 15, 2007, Saturday
Commencement exercises.





★ SPRING 2008 ★

September 14, 2007, Friday
Deadline to file Application for Degree Form with the Office of the Registrar for May 2008 graduation.

October 22, 2007, Monday (tentative)
ASSIST registration (Web) begins by appointment for spring, miniterm, summer I and summer II 2008.

November 1, 2007, Thursday
Admission application and document deadline for international students.

January 3, 2008, Thursday
Admission application and document deadline for late registration. Applications received after this deadline will be processed for the next semester.

January 12, 2008, Saturday
Housing move-in begins at 12 noon.
Cafeteria is open for dinner only.

January 14, 2008, Monday
First day of classes.

January 21, 2008, Monday
Martin Luther King Day holiday, no classes, campus closed.

January 25, 2008, Friday
Deadline to file Application for Degree Form with the Office of the Registrar for August 2008 graduation.

January 30, 2008, Wednesday
Twelfth class day, census date.

February 12, 2008, Tuesday
Last day to drop a course or to withdraw from the University with a grade of "DR" or "W" recorded; last day to change to non-credit.

March 14, 2008, Friday
Residence Halls close for Spring Break at 6 p.m.
Cafeteria is open for breakfast and lunch only.

March 15-22, 2008, inclusive
Cafeteria is closed.

March 17-22, 2008, inclusive
Spring Break, no classes.

March 23, 2008, Sunday
Residence Halls reopen at 12 noon.
Cafeteria is open for dinner only.

March 21-22, 2008, inclusive
Easter holiday, no classes.

April 7, 2008, Monday (tentative)
ASSIST registration (Web) begins by appointment for fall 2008.

April 11, 2008, Friday
Last day to drop courses or withdraw through the Office of the Registrar.

April 18, 2008, Thursday
Deadline to file Application for Degree Form with the Office of the Registrar for December 2008 graduation.

May 1-2, 2008, inclusive
Limited departmental final examinations.
Dead days.

May 5-8, 2008, inclusive
Second semester final examinations.

May 8, 2008, Thursday
Residence Halls close at 6 p.m.
Cafeteria is open for breakfast and lunch only.

May 9, 2008, Friday
Final grades to be entered by faculty no later than 3 p.m.

May 10, 2008, Saturday
Commencement exercises.

★ MINITERM 2008 ★

May 11, 2008, Sunday
Housing move-in begins at 9 a.m.

May 12, 2008, Monday
First day of classes.

May 13, 2008, Tuesday
Second class day, census date.

May 26, 2008, Monday
Memorial Day holiday, no classes, campus closed.

May 29, 2008, Thursday
Last class day for miniterm classes.

May 30, 2008, Friday
Miniterm final examinations.
Housing closes at 6 p.m.

June 2, 2008, Monday
Miniterm final grades to be entered by faculty no later than 3 p.m.



August 16, 2008, Saturday
Commencement exercises.

★ SUMMER I 2008 ★

December 5, 2007, Wednesday
Deadline to file Application for Degree Form with the Office of the Registrar for July 2008 graduation.

April 7, 2008, Monday (tentative)
ASSIST registration (Web) begins by appointment for fall 2008.

June 1, 2008, Sunday
Housing move-in begins at 9 a.m.

June 2, 2008, Monday
First day of classes for summer I classes.

June 5, 2008, Thursday
Fourth class day, census date.

June 11, 2008, Wednesday
Last day to drop a course or to withdraw from the University with a grade of "DR" or "W" recorded; last day to change to non-credit.

June 27, 2008, Friday
Last day to officially drop courses or withdraw through the Office of the Registrar.

July 4, 2008, Friday
Fourth of July holiday, no classes, campus closed.

July 7, 2008, Monday
Last day for summer I classes.

July 8, 2008, Tuesday
Summer I final examinations.
Housing closes at 6 p.m.
Cafeteria open for breakfast and lunch only.

July 9, 2008, Wednesday
Summer I final grades to be entered by faculty no later than 3 p.m.

August 16, 2008, Saturday
Commencement exercises.

★ SUMMER II 2008 ★

January 25, 2008, Friday
Deadline to file Application for Degree Form with the Office of the Registrar for August 2008 graduation.

April 7, 2008, Monday
ASSIST registration (Web) begins by appointment for fall 2008.

July 9, 2008, Wednesday
Housing move-in begins at 9 a.m.

July 10, 2008, Thursday
First day of classes for summer II.

July 15, 2008, Tuesday
Fourth class day, census date.

July 21, 2008, Monday
Last day to drop a course or to withdraw from the University with a grade of "DR" or "W" recorded; last day to change to non-credit.

August 1, 2008, Friday
Last day to officially drop or withdraw through the Office of the Registrar.

August 13, 2008, Wednesday
Last class day for summer II.

August 14, 2008, Thursday
Summer II final examinations.
Housing closes at 6 p.m.
Cafeteria open for breakfast and lunch only.

August 15, 2008, Friday
Final grades to be entered by faculty no later than 3 p.m.

August 16, 2008, Saturday
Commencement exercises.

★ FALL 2008 ★

February 1, 2008, Friday
Admission application and document deadline for ASSIST registration by Web. All students applying after this deadline will register late.

April 7, 2008, Monday (tentative)
ASSIST registration (Web) begins by appointment for fall 2008.

April 18, 2008, Friday
Deadline to file Application for Degree Form with the Office of the Registrar for December 2008 graduation.

August 22, 2008, Friday
Housing move-in begins at 9 a.m.

August 25, 2008, Monday
First day of classes.

CALENDAR



September 1, 2008, Monday
Labor Day holiday, no classes, campus closed.

September 10, 2008, Wednesday
Twelfth class day, census date.

September 15, 2008, Monday
Deadline to file Application for Degree Form with the Office of the Registrar for May 2009 graduation.

September 23, 2008, Tuesday
Last day to drop a course or to withdraw from the University with a grade of "DR" or "W" recorded; last day to change to non-credit.

October 20, 2008, Monday (tentative)
ASSIST registration (Web) begins by appointment for spring 2009, miniterm, summer I and summer II 2009.

November 26th, Wednesday
Last day to drop or withdraw through the Office of the Registrar.
Residence Halls close for Thanksgiving Holiday at 6 p.m.

November 27-28, 2008, inclusive
Thanksgiving holiday, no classes.

November 30, 2008, Sunday
Residence Halls reopen at 12 noon.

December 4-5, 2008, inclusive
Limited departmental final examinations. Dead days.

December 5, 2008, Friday
Deadline to file Application for Degree Form with the Office of the Registrar for August 2009 graduation.

December 8-11, 2008, inclusive
Fall semester final examinations.

December 11, 2008, Thursday
Residence Halls close at 6 p.m.

December 12, 2008, Friday
Final grades to be entered by faculty no later than 3 p.m.

December 13, 2008, Saturday
Commencement exercises.

★ SPRING 2009 ★

February 1, 2008, Friday
Admission application and document deadline for ASSIST registration by Web. All students applying after this deadline will register late.

September 15, 2008, Monday
Deadline to file Application for Degree Form with the Office of the Registrar for May 2009 graduation.

October 20, 2008, Monday (tentative)
ASSIST registration (Web) begins by appointment for spring 2009, miniterm, summer I and summer II 2009.

January 10, 2009, Saturday
Housing move-in begins at 12 noon.

January 12, 2009, Monday
First day of classes.

January 19, 2009, Monday
Martin Luther King Day holiday, no classes, campus closed.

January 23, 2009, Friday
Deadline to file Application for Degree Form with the Office of the Registrar for August 2009 graduation.

January 28, 2009, Wednesday
Twelfth class day, census date.

February 3, 2009, Tuesday
Last day to drop a course or to withdraw from the University with a grade of "DR" or "W" recorded; last day to change to non-credit.

March 6, 2009, Friday
Residence Halls close for Spring Break at 6 p.m.

March 9-13, 2009, inclusive
Spring Break, no classes.

March 15, 2009, Sunday
Residence Halls reopen at 12 noon.

April 6, 2009, Monday (tentative)
ASSIST registration (Web) begins by appointment for fall 2009.

April 10-11, 2009, inclusive
Easter holiday, no classes.

April 17, 2009, Friday
Last day to drop courses or withdraw through the Office of the Registrar.
Deadline to file Application for Degree Form with the Office of the Registrar for December 2009 graduation.

April 30-May 1, inclusive
Limited departmental final examinations.
Dead days.

May 4-7, 2009, inclusive
Spring semester final examinations.



May 7, 2009, Thursday
Residence Halls close at 6 p.m.

May 8, 2009, Friday
Final grades to be entered by faculty no later than 3 p.m.

May 9, 2009, Saturday
Commencement exercises.

★ MINITERM 2009 ★

May 10, 2009, Sunday
Housing move-in begins at 9 a.m.

May 11, 2009, Monday
First day of classes.

May 12, 2009, Tuesday
Second class day, census date.

May 25, 2009, Monday
Memorial Day holiday, no classes, campus closed.

May 27, 2009, Wednesday
Last class day for miniterm classes.

May 28, 2009, Thursday
Study day for exams. No classes.

May 29, 2009, Friday
Miniterm final examinations.
Housing closes at 6 p.m.

June 1, 2009, Monday
Miniterm final grades to be entered by faculty no later than 3 p.m.

August 15, 2009, Saturday
Commencement exercises.

★ SUMMER I 2009 ★

December 5, 2008, Friday
Deadline to file Application for Degree Form with the Office of the Registrar for July 2009 graduation.

May 31, 2009, Sunday
Housing move-in begins at 9 a.m.

April 6, 2009, Monday (tentative)
ASSIST registration (Web) begins by appointment for fall 2009.

June 1, 2009, Monday
First day of classes for summer I classes.

June 4, 2009, Thursday
Fourth class day, census date.

June 10, 2009, Wednesday
Last day to drop a course or to withdraw from the University with a grade of "DR" or "W" recorded; last day to change to non-credit.

June 26, 2009, Friday
Last day to officially drop courses or withdraw through the Office of the Registrar.

July 3, 2009, Friday
Last day for summer I classes.

July 4, 2009, Saturday
Fourth of July holiday, no classes, campus closed.

July 7, 2009, Tuesday
Summer I final examinations.
SSI only. Move out of housing at 6 p.m.

July 8, 2009, Wednesday
Final grades to be entered by faculty no later than 3 p.m.

August 15, 2009, Saturday
Commencement exercises.

★ SUMMER II 2009 ★

January 23, 2009, Friday
Deadline to file Application for Degree Form with the Office of the Registrar for August 2009 graduation.

July 7, 2009, Tuesday
SSII only. Move-in to housing at 9 a.m.

July 8, 2009, Wednesday
First day of classes for Summer II.

July 13, 2009, Monday
Fourth class day, census date.

July 20, 2009, Monday
Last day to drop a course or to withdraw from the University with a grade of "DR" or "W" recorded; last day to change to non-credit.

August 7, 2009, Friday
Last day to officially drop or withdraw through the Office of the Registrar.

August 11, 2009, Tuesday
Last class day for summer II.

CALENDAR, OVERVIEW

August 12, 2009 Wednesday
Summer II final examinations.
Housing closes at 6 p.m.

August 14, 2009, Friday
Final grades to be entered by faculty no later than 3 p.m.

August 15, 2009, Saturday
Commencement exercises.

THE UNIVERSITY OF TEXAS- PAN AMERICAN



OVERVIEW

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

★ INSTITUTIONAL VISION AND PHILOSOPHY

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.

★ MISSION STATEMENT

The University of Texas-Pan American (UTPA) 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.

★ UNIVERSITY HISTORY

The school first opened in 1927 as Edinburg College, a two-year community college governed by the Edinburg School District.

In 1933, the institution was approved by the State Department of Education, designated a "First Class Junior College" by the Association of Texas Colleges, became a member of the Association of Colleges and Secondary Schools of Southern States and was renamed Edinburg Junior College.

In 1947, Edinburg Junior College began offering classes at night and at off-campus locations in neighboring towns. The following year, the name was changed again, this time to Edinburg Regional College, as the school was separated from the Edinburg School District and began receiving partial state support.

On Dec. 20, 1951, the voters of Hidalgo County approved the establishment of a four-year college, Pan American College, to serve the needs of the region. Between 1952 and 1965, the former Edinburg Regional College served as the junior division of the new college, and a senior division was established to furnish upper-level work and award degrees.

The name Pan American College was selected because it reflected the institution's desire to bridge the cultures of North and South America and to reflect the cultural and ethnic diversity of the institution.

Pan American College became part of the Texas System of Colleges and Universities on Sept. 1, 1963. A two-year transition period was provided during which the school passed from partial state support to full state assistance, control and ownership. In 1965, the college officially became the 22nd state-supported senior institution in Texas.

In the late 1960s, Pan American College responded to increasing requests to provide graduate-level work, and by 1970, the school had received approval to offer graduate instruction in the arts, education and science. To reflect the increased range of studies available, the name of the school was changed to Pan American University on Sept. 1, 1971.

Pan American University began to offer courses in Brownsville in 1973 to better serve the citizens of Cameron County and the Lower Rio Grande Valley. A few years later, the Pan American University Board of Regents created Pan American University at Brownsville, which is now a separate university.

The greatest change in more recent years was the



University's merger on Sept. 1, 1989, with The University of Texas System, renaming the school The University of Texas-Pan American. The historic event culminated two years of study, hearings, discussion and negotiations involving regents, legislators, faculty, students, alumni and the community.

With the addition of Pan American University, The University of Texas System gained a window on eastern Mexico and a strong presence in one of the fastest-growing regions of the state. To its advantage, Pan American gained the participation and support of the System and its components in expanding the number of academic opportunities it offers its students.

In 1994, the Texas Higher Education Coordinating Board approved UT Pan American's first doctoral degree, a Ph.D. program in business administration with an emphasis in international business, effectively marking the beginning of a new era in the development of the institution. In 1998, the Coordinating Board approved a second doctoral program, an Ed.D. in educational leadership. UTPA also now offers a Pharm.D. in pharmacy in cooperation with The University of Texas at Austin.

UT Pan American has continued to broaden its curriculum, adding baccalaureate, master's and doctoral degree programs. Today, it is the 10th largest of the state's 35 senior institutions.

★ 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.

Enrollment in fall 2006 was about 17,337. The Texas Higher Education Coordinating Board predicts the University will have a fall enrollment of 19,032 students by the year 2010.

★ 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 with an emphasis in International Business (Ph.D.)
- ◆ College of Education
Educational Leadership (Ed.D.)
- ◆ College of Health Sciences and Human Services
Pharmacy (Pharm.D.) in cooperation with The University of Texas at Austin

◆ Master's Degrees

- ◆ College of Arts and Humanities
 - Art (MFA)
 - Communication (MA)
 - English (MA) (MFA)
 - English as a Second Language (MAESL)
 - 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)
 - Elementary Education (MEd)
 - Gifted Education (MEd)
 - Guidance and Counseling (MEd)
 - Kinesiology (Physical Education) (MS)
 - Reading (MEd)
 - School Psychology (MA)
 - Secondary Education (MEd)
 - Special Education (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)
 - Rehabilitation Counseling (MS)
 - Social Work (MSSW)

- ◆ College of Science and Engineering
 - Biology (MS)
 - Chemistry (MS)
 - Computer Science (MS)
 - Information Technology (MSIT)
 - Engineering (MSE)
 - Electrical
 - Manufacturing
 - Mechanical
 - Mathematics
 - Mathematical Science (MS)
 - Mathematics Teaching (MS)
 - Master of Arts in Interdisciplinary Studies (MAIS)
 - Concentration in Physics

- ◆ College of Social and Behavioral Sciences
 - Criminal Justice (MS)
 - Psychology
 - Clinical (MA)
 - Experimental (MA)
 - Public Administration (MPA)
 - Sociology (MS)
 - Master of Arts in Interdisciplinary Studies (MAIS)
 - Concentration in Anthropology

☆ BACHELOR'S DEGREES

- ◆ College of Arts and Humanities
 - Art (BA, BFA)
 - Communication (BA)
 - Communication Studies (BA)
 - Journalism (BA)
 - Theatre (BA)
 - English (BA)
 - History (BA)
 - Inter-American Studies (Latin American Studies) (BA)
 - Social Studies Composite 8-12 (BA)
 - Mexican-American Heritage (BA)
 - Music (BA)
 - 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
 - Dance (BA)
 - Health (BS)
 - Kinesiology (BS)
 - Interdisciplinary Studies (BIS)

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

- ◆ College of Science and Engineering
 - Biology (BS)
 - Chemistry (BS)
 - Computer Engineering (CMPE)
 - Computer Science (BS), (BSCS)
 - Electrical Engineering (BSEE)
 - Interdisciplinary Studies (BIS)
 - Life Science 4-8
 - Mathematics 4-8
 - Manufacturing Engineering (BSMF)
 - 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 — General (BAAS)*
 - 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.*



For more information on the undergraduate degrees listed above, please consult the Undergraduate Catalog.

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.

THE UNIVERSITY OF TEXAS SYSTEM



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THE UNIVERSITY OF TEXAS PAN AMERICAN



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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.

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 admissions standard serves as a minimum for admission to any graduate program.

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
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
Telephone: 956/381-2715

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

ETS Testing Information
www.ets.org

★ AUTOMATED STUDENT INFORMATION SERVICES

Kiosk Stations: Located on the UT Pan American campus and hold information regarding application status, campus directory, student record information,

general information and standard forms.

Web for Students: Services made available by the telephone voice response and the kiosk are also available online at assist.utpa.edu or Campus Pipeline at cp.utpa.edu

★ APPLICATION DEADLINES

Application deadlines are found in the University Calendar, the Schedule of Classes and/or the Graduate Program Supplemental Application. The earliest application deadline for both summer sessions and the fall semester is usually the first work day in February. The deadline for spring semester is usually the first work day in September. Specific programs may have earlier deadlines as shown on the program's supplemental application.

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.

★ UNIVERSITY WIDE REQUIRED DOCUMENTS

(Does not apply to International applicants. Please see International Student Admission pg. 18.)

The following must be sent to the Graduate Studies office (see Important contact information pg. 16) in order for the applicant to be considered for admission. The individual graduate degree programs may require additional documents. The applicant is responsible for submitting any additional documents directly to the graduate program. Refer to the Graduate Program Supplemental Application for additional document requirements and submission instructions.

1. *Application:* The University application and the Graduate Program Supplemental Application (if required) must be completed and returned to the Graduate Studies office by the appropriate deadline(s).

2. *Application Fee Receipt:* The University application fee of \$35 as well as any graduate program application fee must be paid in the form of money order or check and sent to the Office of Payments and Collections. The applicant is responsible for submitting

a copy of the receipt to the Graduate Studies office for documentation. Online applicants may choose to pay the fee(s) by credit card. All application fees are non-refundable.

3. *Official Transcripts*:* Official college transcripts are to be sent to the Graduate Studies office directly from all the institutions attended. 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).

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 ten 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.

★ APPLICATION PROCEDURE

The application for admission has two parts that need to be completed and submitted to the Graduate Studies office. Part one is a general application for the Graduate School and part two is a supplemental application specific to the graduate program for which the applicant is applying.

Each graduate program establishes its own admission standards in consultation with the University Graduate Council and may require additional documents. These additional documents, if any, will be listed on the supplemental application and must be sent directly to the college or department that houses the program as indicated.

Applicants must submit all application documents and meet all other requirements by the published deadline date for the semester in which they are applying for in order to be considered for admission.

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 updated application for 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.

★ ADMISSION CATEGORIES

☆ GRADUATE DEGREE-SEEKING STUDENTS

A graduate degree-seeking student is admitted into a specific degree program. A degree-seeking student 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.

☆ SPECIAL GRADUATE STUDENTS

Special Graduate Students are those holding a master's degree (or higher) from an accredited institution. Students applying as Special Graduate Students must submit the UT Pan American graduate application and pay the required fees. Registration in a master's course requires the permission of the graduate program coordinator 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.

Special Graduate Students seeking professional improvement are only required to have an official transcript showing the awarding of a bachelor's degree. This must be sent to the UT Pan American Graduate School directly from the awarding institution. Special students seeking a teaching certification are required to have transcripts sent from all institutions attended.

☆ 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. *Test of English as a Foreign Language (TOEFL):* Students from countries whose native language is not English will be expected to take the TOEFL. TOEFL scores must be sent directly from the Educational Testing Service to the Graduate School. UT Pan American will not accept residual TOEFL exams taken at another institution. Students scoring below 500 on the TOEFL will not be eligible for admission. Students may make a written request to take an alternative English proficiency exam in place of the TOEFL. 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. *Financial Deposit:* A deposit must be submitted that is equal to the cost of room and board in a UT Pan American residence hall for one semester. This prepayment must be in the form of a money order or cashier's check. The student must submit a request in writing indicating how the deposit should be applied

(i.e., toward tuition or residence hall fees or returned to the student if the money is required for off-campus living expenses). Any refunds for students who decide not attend the University must also be requested in writing. Submit written requests to the Office of Payments and Collections (see important contact information pg. 16).

6. Proof of Mandatory Medical Insurance: Proof of medical insurance must be submitted to the Office of International Studies, University Center 113.

◆ 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 University Center, room 113. Visit www.utpa.edu 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 foreign passport unless exempt from passport 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 Form I-20 A-B from the new school. Transfer will be in effect only if the student returns the Form I-20 A-B to the designated school official within 15 days of beginning attendance at the new school. The designated school official will then report the transfer to the Immigration and Naturalization Service.

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, or for more than eight consecutive years, the student must apply for extension of stay. An application for extension of stay, on the Form I-538, should be filed with the international student advisor at least 15 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 a particular program. Departments 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 catalog and the supplemental application 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, except that UT Pan American shall base the calculation on the last 60 attempted credit hours (or equivalent) of college work, which include any previous work in a graduate or professional school other than remedial or non-credit courses.

3. The last 60 hour 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.

3. Earned a previous master's degree from an accredited university.

4. Met all of the requirements for changing a classification with restrictions to "clear."

☆ PROBATIONARY ADMISSION

An applicant meeting the following criteria may be granted probationary 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 probationary admission may not enroll for more than 12 graduate hours total while on probationary admittance. A student on probationary 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 probationary student's total earned graduate hours are nine 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."

☆ TENTATIVE ADMISSION

(Not applicable to graduate students in the College of Health Sciences and Human Services)

Master's applicants to the Colleges of Arts and Humanities, Business Administration, Education, Health Science and Human Services, Science and Engineering, and Social and Behavioral Sciences may be granted tentative 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 has a minimum 2.5 (on a 4.0 scale) result of the Graduate Admission GPA calculation.

Tentative 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

ADMISSION, TRANSFER CREDITS

tentative 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 tentative admission requirements are not met.

At the end of one long semester or two consecutive summer semesters of tentative admission, the student will be reclassified to one of the other admission classifications, including no admission.

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

NOTE: Undergraduates seeking tentative admission should refer to the section on Reservation of Work by Undergraduates for Graduate Credit pg. 22 or 44.

☆ NO ADMISSION

An applicant not meeting the minimum graduate admission requirements for the University or the criteria for the graduate degree program will not be admitted.

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 probationary 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.

☆ 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 credit was not earned by correspondence,
4. the credit was not earned by extension and
5. 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 Distance Learning Web site at cdl.utpa.edu or call the center at 956/381-2979.

★ UT TELECAMBUS 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 2007-2008 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 30 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 26.) 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, non-resident (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 non-resident 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 26 are the required tuition and fees charged each semester:

- *Tuition charges* in 2007-2008 are \$80 per semester credit hour for resident graduate students and \$358 per semester credit hour for all non-resident graduate students and in 2008-2009, \$80 and \$358, respectively.

- *Tuition Designated charges* in 2007-2009 are \$79.15 per semester credit hour, with a maximum of \$1,108.10 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* of \$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* of \$7.75 per semester credit hour is charged to fund costs incurred in providing access to and supervision of computer laboratories.

- *International Education Fee* of \$1 per semester is charged to assist students participating in international student exchanges or study programs.

- *Registration Fee* of \$8 per semester is charged to defray the cost of providing ASSIST services for registration.

- *Library Technology Fee* of \$2.25 per semester credit hour is charged to enhance student access to library information via technology.

- *Medical Service Fee* of \$19.45 per regular semester

or \$9.42 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 26 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

TUITION AND FEES (MANDATORY AND COURSE SPECIFIC)

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. Reference Distance Learning Tuition Waivers on page 38 for additional information.

- *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 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:* \$25 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:* \$3-30 may be assessed for each laboratory course depending upon cost of material used.

- *Nursing Course Fee:* \$20 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 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.

- *Threepart Fee:* \$100 per semester credit hour is assessed to defray the costs associated with students enrolled in a given course for the third or greater time.



2007-2008 TUITION & FEE TABLE FALL/SPRING

Semester Credit Hours	Residents of Texas		Non-Resident Student	
	Undergrad	Grad	Undergrad	Grad
1	233.45	244.45	511.45	522.45
2	389.45	430.45	945.45	986.45
3	545.45	616.45	1,379.45	1,450.45
4	701.45	802.45	1,813.45	1,914.45
5	857.45	988.45	2,247.45	2,378.45
6	1,013.45	1,174.45	2,681.45	2,842.45
7	1,169.45	1,360.45	3,115.45	3,306.45
8	1,325.45	1,546.45	3,549.45	3,770.45
9	1,481.45	1,732.45	3,983.45	4,234.45
10	1,637.45	1,918.45	4,417.45	4,698.45
11	1,793.45	2,104.45	4,851.45	5,162.45
12	1,949.45	2,290.45	5,285.45	5,626.45
13	2,105.45	2,476.45	5,719.45	6,090.45
14	2,261.45	2,662.45	6,153.45	6,554.45
15	2,338.30	2,769.30	6,508.30	6,939.30
16	2,415.15	2,876.15	6,863.15	7,324.15
17	2,492.00	2,983.00	7,218.00	7,709.00
18	2,566.85	3,087.85	7,570.85	8,462.70
19	2,629.70	3,180.70	7,911.70	7,886.00
20	2,692.55	3,273.55	8,252.55	8,833.55

Each Additional Hour, add:

62.85 92.85 340.85 370.85

SUMMER SESSIONS

1	198.92	219.42	476.92	497.42
2	354.92	405.42	910.92	961.42
3	510.92	591.42	1,344.92	1,425.42
4	666.92	777.42	1,778.92	1,889.42
5	822.92	963.42	2,212.92	2,353.42
6	978.92	1,149.42	2,646.92	2,817.42
7	1,134.92	1,335.42	3,080.92	3,281.42
8	1,290.92	1,521.42	3,514.92	3,745.42
9	1,445.92	1,706.42	3,947.92	4,208.42
10	1,587.92	1,878.42	4,367.92	4,658.42
11	1,729.92	2,050.42	4,787.92	5,108.42
12	1,871.92	2,222.42	5,207.92	5,558.42
13	2,013.92	2,394.42	5,627.92	6,008.42
14	2,155.92	2,566.42	6,047.92	6,458.42

Each Additional Hour, add:

142.00 172.00 420.00 450.00

2008-2009 TUITION & FEE TABLE FALL/SPRING

Semester Credit Hours	Residents of Texas		Non-Resident Student	
	Undergrad	Grad	Undergrad	Grad
1	233.45	244.45	511.45	522.45
2	389.45	430.45	945.45	986.45
3	545.45	616.45	1,379.45	1,450.45
4	701.45	802.45	1,813.45	1,914.45
5	857.45	988.45	2,247.45	2,378.45
6	1,013.45	1,174.45	2,681.45	2,842.45
7	1,169.45	1,360.45	3,115.45	3,306.45
8	1,325.45	1,546.45	3,549.45	3,770.45
9	1,481.45	1,732.45	3,983.45	4,234.45
10	1,637.45	1,918.45	4,417.45	4,698.45
11	1,793.45	2,104.45	4,851.45	5,162.45
12	1,949.45	2,290.45	5,285.45	5,626.45
13	2,105.45	2,476.45	5,719.45	6,090.45
14	2,261.45	2,662.45	6,153.45	6,554.45
15	2,338.30	2,769.30	6,508.30	6,939.30
16	2,415.15	2,876.15	6,863.15	7,324.15
17	2,492.00	2,983.00	7,218.00	7,709.00
18	2,566.85	3,087.85	7,570.85	8,091.85
19	2,629.70	3,180.70	7,911.70	7,886.00
20	2,692.55	3,273.55	8,252.55	8,833.55

Each Additional Hour, add:

62.85 92.85 340.85 370.85

SUMMER SESSIONS

1	198.92	219.42	476.92	497.42
2	354.92	405.42	910.92	961.42
3	510.92	591.42	1,344.92	1,425.42
4	666.92	777.42	1,778.92	1,889.42
5	822.92	963.42	2,212.42	2,353.42
6	978.92	1,149.42	2,646.92	2,817.42
7	1,134.92	1,335.42	3,080.92	3,281.42
8	1,290.92	1,521.42	3,514.92	3,745.42
9	1,445.92	1,706.42	3,947.92	4,208.42
10	1,587.92	1,878.42	4,367.92	4,658.42
11	1,729.92	2,050.42	4,787.92	5,108.42
12	1,871.92	2,222.42	5,207.92	5,558.42
13	2,013.92	2,394.42	5,627.92	6,008.42
14	2,155.92	2,566.42	6,047.92	6,458.42

Each Additional Hour, add:

142.00 172.00 420.00 450.00

★ 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 \$22.50 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 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:

- being withdrawn from the University;
- being barred from readmission to the institution;
- the withholding of the student's grades, degree and official transcript;
- 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 64.

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

- *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 27 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:* \$35 nonrefundable fee to defray the cost associated with recruitment and retention at the graduate level and the processing of application.

- *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. For more information, see page 28.

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

- **International Student Service Fee:** \$30 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 64.

- **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 37.)

- **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 onetime 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:** \$110 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**

OTHER FEES AND DEPOSITS, REFUND OF REGISTRATION FEES

Advisement Fee: \$45 per semester will be charged to students not cleared from TSI to defray the cost of advising. 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.

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

- *Tuition Installment Incidental Charge:* See Installment Payments on page 27.

- *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. Closser, 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 \$34 if paid during the fall semester, \$26 if paid during the spring semester, \$17 during the first summer session and \$9 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.

◆ 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 23.



 FINANCIAL ASSISTANCE

Some financial aid programs are available for graduate students. Other financial assistance may be available through teaching assistantships, research assistantships and/or fellowships. For more information on teaching assistantships, research assistantships and fellowships, contact the graduate program coordinator.

★ 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 of federal financial aid funds, makes UT Pan American reasonably priced.

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

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

Student Financial Services Office
Student Services Building, First Floor
1201 W. University Drive
Edinburg, Texas 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
On the Web: <http://www.utpa.edu/finaid/>

For other financial aid information, the following services are available:

*TDD/Telecommunication
Device for the Deaf: 956/381-3654*
Hours: 8 a.m.-6 p.m., Monday-Thursday
8 a.m.-5 p.m. Friday

E-mail Address: finaid@utpa.edu
Web: <http://www.utpa.edu/finaid/>

Federal Student Aid Information Center
1-800-4-FED-AID (1-800-433-3243)
or visit www.FAFSA.ED.GOV
Hours: 9 a.m.-8 p.m. (Eastern Time)

To find out if his or her federal student financial aid application has been processed or if he or she wants a copy of his or her Student Aid Report (SAR), a student should call 1/800-433-3243.

★ APPLICATION PROCESS

The University of Texas-Pan American is an equal employment opportunity institution in the administration of its financial aid program. In keeping with this policy, financial aid is extended to students without regard to race, creed, sex, national origin, veteran status, religion, age or disability. An applicant may qualify for financial assistance if he or she meets the following criteria:

- a. is a U.S. citizen or eligible non-citizen;
- b. has registered with Selective Service (if required);
- c. has signed a statement of educational purpose/certification statement on refunds and default;
- d. is enrolled as a regular student working toward a degree in an eligible program;
- e. is not in default on any federal or institutional loan, and does not owe a refund on any federal or state grant program;

- f. demonstrates financial need, except when applying for funds from a program that does not require proof of financial need;
- g. is in satisfactory academic standing, and making satisfactory academic progress (as defined by the Satisfactory Academic Progress Policy) at the University;
- h. has a financial aid application and all required documentation on file by the appropriate deadline;
- i. has been accepted to the University and has *clear admission* into his/her Graduate Study Program.

NOTE: For students transferring in less than 60 hours, the Student Financial Services Office is required to monitor the completion of a high school diploma or its equivalent by requesting that such a documentation be on file or turned in to the Office of the Registrar.

☆ HOW TO APPLY FOR FINANCIAL AID

The following information and forms are used as part of the application process:

- ◆ You must complete the Free Application for Federal Student Aid (FAFSA) form to apply for federal and state grants, loans and work-study. Students can complete a FAFSA online at www.fafsa.ed.gov. Students needing assistance completing a FAFSA can visit our Financial Aid Express Lab on the first floor of the Student Services Building for one-on-one assistance.
- ◆ In order to file your FAFSA via the Web, you must request a PIN at www.pin.ed.gov. This is your electronic signature for FAFSA on the Web.
- ◆ You will receive a Student Aid Report within four to six weeks. If you transmitted your application electronically, you should receive a Student Aid Acknowledgment letter within two to three weeks, indicating your eligibility. If corrections are needed, you must submit your report to the Central Processor. Once the Student Financial Services Office receives your data electronically, your need for financial assistance will be determined. The University of Texas-Pan American SCHOOL CODE: 003599

In the event that two or more completed and eligible applications are submitted on the same date, priority will be given to those students with exceptional need.

When the student applies and receives a Student Aid Report (SAR), he or she should contact Student Financial Services, Student Services Building, First Floor, to receive



instructions on what steps to follow to continue the process. The steps will vary depending on the status of the student's application.

★ APPLICATION PRIORITY DEADLINES

To ensure processing before registration, the recommended deadlines for submission of applications are as follows:

- Fall awards:* March 1
- Spring awards:* Sept. 15
- Summer awards:* Feb. 15

NOTE: Final deadline to apply for the year is June 30.

Important: If you will be enrolling in summer classes, the Student Financial Services Office will have a summer notification link available beginning Jan. 2 of every year. This is a separate departmental notification from the Free Application for Federal Student Aid (FAFSA). You will still need to file a FAFSA for the summer if you have not filed one for the fall/spring semester.

◆ 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 & 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 any 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 guaranteed their loan. If a student is a first time freshman borrower, the funds will not be received until 30 calendar days after the first class day.
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 GRADUATE AND DOCTORAL STUDENTS

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

★ POLICY

Students on Title IV financial assistance must maintain satisfactory academic progress toward completion of their master's or doctoral degree.

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

I. *Grade Point Average:*

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

II. *Increments:*

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

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

Transfer graduate hours will be adjusted to the appropriate increment based upon the number of accepted transfer hours.

TUITION & FEE DISCLOSURE FOR TEXAS RESIDENTS FY 2008 & FY 2009 (FALL/SPRING)

Charge	Undergraduate		Graduate	Comments
	12 SCH	15 SCH	9 SCH	
FY 2008				
Tuition (Texas Resident)	600.00	750.00	720.00	\$50/SCH-UG, \$80/SCH-Grad.
Tuition (Non-Resident)	3,936.00	4,920.00	3,222.00	\$328/SCH-UG, \$358/SCH-Grad.
Plus:				
Designated Tuition **	949.80	1,108.10	712.35	\$79.15/SCH, \$1,108.10 max
Utility Fee	34.20	42.75	25.65	\$2.85/SCH
Registration/Matriculation Fee	8.00	8.00	8.00	\$8 per semester
Student Service Fee	168.00	210.00	126.00	\$14/SCH, \$250 max
International Education Fee	1.00	1.00	1.00	\$1 per semester
Computer Access Fee	93.00	116.25	69.75	\$7.75/SCH
Library Technology Fee	27.00	33.75	20.25	\$2.25/SCH
Medical Service Fee	19.45	19.45	19.45	\$19.45 per semester
Student Union Fee	30.00	30.00	30.00	\$30 per semester
Undergraduate Advisement Fee	19.00	19.00	*	\$19 per semester
Subtotal-Required Fees	1,349.45	1,588.30	1,012.45	
Average Incidental Fees	*	*	*	
Total Tuition & Fees (Texas Res.)	1,949.45	2,338.30	1,732.45	Total for Texas Resident
Total Tuition & Fees (Non-Res.)	5,285.45	6,508.30	4,234.45	Total for Non-Resident
FY 2009				
Tuition (Texas Resident)	600.00	750.00	720.00	\$50/SCH-UG, \$80/SCH-Grad.
Tuition (Non-Resident)	3,936.00	4,920.00	3,222.00	\$328/SCH-UG, \$358/SCH-Grad.
Plus:				
Designated Tuition **	949.80	1,108.10	712.35	\$79.15/SCH, \$1,108.10 max
Utility Fee	34.20	42.75	25.65	\$2.85/SCH
Registration/Matriculation Fee	8.00	8.00	8.00	\$8 per semester
Student Service Fee	168.00	210.00	126.00	\$14/SCH, \$250 max
International Education Fee	1.00	1.00	1.00	\$1 per semester
Computer Access Fee	93.00	116.25	69.75	\$7.75/SCH
Library Technology Fee	27.00	33.75	20.25	\$2.25/SCH
Medical Service Fee	19.45	19.45	19.45	\$19.45 per semester
Student Union Fee	30.00	30.00	30.00	\$30 per semester
Undergraduate Advisement Fee	19.00	19.00	*	\$19 per semester
Subtotal-Required Fees	1,349.45	1,588.30	1,012.45	
Average Incidental Fees	*	*	*	
Total Tuition & Fees (Texas Res.)	1,949.45	2,338.30	1,732.45	Total for Texas Resident
Total Tuition & Fees (Non-Res.)	5,285.45	6,508.30	4,234.45	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.*



III. *Maximum Time Frame:*

Maximum Time Frame is measured at the end of each fall and spring semester. Students in master's degree programs with more than 36 hours will be given two additional semesters to complete their programs without appealing their financial aid status.

Summer hours will not be considered a portion of the semester limits. The semesters required to take leveling courses before entry into the master's or doctoral programs are included in the maximum time frame measure.

The following table illustrates the increment requirements that a student must satisfactorily complete and the maximum time frame requirements:

◆ **Master's Student**

Academic Progress Period	Total Cumulative Hours Earned	Incremental Hours to be Completed
First year-2 semesters	12	12
Second year-4 semesters	24	12
Third year-6 semesters	36	12

Maximum Time Frame (years)*

Full-time: three

Less than full-time: six

◆ **Doctoral Student**

Academic Progress Period	Total Cumulative Hours Earned	Incremental Hours to be Completed
First year-2 semesters	12	12
Second year-4 semesters	24	12
Third year-6 semesters	36	12
Fourth year-8 semesters	48	12
Fifth year-10 semesters	60	12

Maximum Time Frame (years)*

Full-time: five

Less than full-time: ten

NOTE: Students who have already received a baccalaureate degree but are not in a graduate program will be treated as undergraduate students for financial aid purposes. Students seeking a second undergraduate degree will be evaluated on the same satisfactory academic progress criterion as the undergraduate students. Students who hold a first baccalaureate or have met the requirements for the baccalaureate are not eligible for a Federal Pell Grant or Federal Supplemental Opportunity Grant to continue their education.

DEFICIENCY CALCULATION WORKSHEET

The University of Texas-Pan American
Satisfactory Academic Progress Deficiency Worksheet
Hours Enrolled as of 12th Class Day

Undergraduates				
Freshmen and Sophomores				
<i>Earned hours less than or equal to 59 hours: FR/SO</i>				
Student Enrollment Status	Less Than Half-Time	Half-Time	Three Quarter-Time	Full-Time
Hours Being Attempted	1-5	6-8	9-11	12 or more
Hours that MUST be Passed	All hours attempted	5	8	10
Juniors and Seniors				
<i>Earned hours greater than or equal to 60 hours: JR/SR</i>				
Student Enrollment Status	Less Than Half-Time	Half-Time	Three Quarter-Time	Full-Time
Hours Being Attempted	1-5	6-8	9-11	12 or more
Hours that MUST be Passed	All hours attempted	6	9	12

Graduates				
Student Enrollment Status	Less Than Half-Time	Half-Time	Three Quarter-Time	Full-Time
Hours Being Attempted	1-5	6-8	9 or more	
Hours that MUST be Passed	All hours attempted	All hours attempted	All hours attempted	

NOTE: Students attending UT Pan American in summer sessions will clear deficiencies faster than by attending another eligible institution. Admissions and New Student Services must first evaluate transfer hours earned at another institution before our the student financial services office can evaluate for deficiency clearance.

☆ **ENROLLMENT STATUS**

Enrollment status will be determined in accordance

with the definition in this catalog.

Grades of "A", "B", "C", "D" will be considered in determining credit hours earned. Grades of "F", "WP", "WF", "DP", "DF" or "I" will not be considered as credit earned for the increment measure. Students who withdraw from the University must still maintain satisfactory academic progress regarding increments and maximum time frame.

Summer school enrollment at UT Pan American may be used as a means to make up deficient hours. A repeat course for which a grade has been received at another institution will not clear a deficiency.

Continuing Education courses are not calculated in the Satisfactory Academic Progress status for a student.

Extension courses applied for credit are used in the Satisfactory Academic Progress calculation.

Credit for distance learning courses will be used in the Satisfactory Academic Progress calculation.

★ FINANCIAL AID PROBATION

Students who are under academic probation will automatically be on Financial Aid Probation. A student on Financial Aid Probation is eligible to receive financial aid. If, after the spring semester, the student is deficient in the number of increment hours required, he or she will be on a probationary status during the summer. Students may receive financial aid during the probationary period. The probationary period will not be extended after the student has exhausted his or her maximum time frame.

★ FINANCIAL AID SUSPENSION

Students on Academic Suspension will automatically be considered to be on Financial Aid Suspension. Failure to meet the increment requirements after a probationary period (summer sessions) will result in Financial Aid Suspension. Additionally, exhausting the maximum time frame allowed will also result in Financial Aid Suspension.

◆ Appeals Process

Students may appeal Financial Aid Suspension status due to unusual circumstances such as illness, death in the family, accidents or other mitigating circumstances. A written appeal must be submitted to Student Financial Services prior to the intended period of enrollment. Appeal forms are available at the Student Financial Services Office: Fall-July 1, Summer-April 1, and Spring-November 1. The appeal will be reviewed by the Financial Aid Advisory Committee consisting of faculty and staff. All decisions made by the committee are final.

★ DISTANCE LEARNING UT TELECAMPUS

An agreement exists between other UT institutions and UTPA to award eligible students 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 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 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 obtained at the following Web site:

<http://www.telecampus.utsystem.edu>
under the heading TeleCampus Information System (TIS). For additional questions, please contact the Student Financial Services Office at 956/381-2958.

★ STUDY ABROAD PROGRAM

Enrollment in a study abroad program approved for credit by UTPA may be considered enrollment at UT Pan



American for the purpose of applying for federal student aid.

Students who wish to apply for financial assistance for study abroad should apply in the same manner as if they were planning on being in residence at UT Pan American. Study abroad students must file a FAFSA and complete a 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.

◆ Disbursement Process (Study Abroad)

Disbursement of financial aid awards will adhere to the regular University schedule of funds disbursement.

Study abroad applicants who need to meet earlier payment deadlines must make arrangements to pay from their own resources.

◆ Pell Grant

The study abroad applicant who is eligible for the Federal Pell Grant will have the award based on hours enrolled and the length of the study abroad academic school year.

◆ Return of Title IV

Any time a student withdraws from the study abroad program, he or she will be responsible for repayment of federal funds.

The Center for International Studies can provide additional information on eligible study abroad programs. For additional information, please call 956/381-3572.

★ TYPES OF FINANCIAL ASSISTANCE

☆ GRANTS

A Texas Public Educational Grant (TPEG) is a campus-based grant for undergraduate and graduate students with financial need and does not have to be repaid. 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 or her account will be credited.

☆ FEDERAL WORK-STUDY PROGRAM (FWS)

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

The FWS salary will be at least the current federal minimum wage, but it may be higher, depending on longevity and the funding level at UT Pan American. If a student is employed by UT Pan American through the Federal Work-Study Program, he or she 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. Students may also be employed at local area school districts and/or qualifying educational entities as tutors under the America Reads or America Counts Programs which are subprograms of federal work-study.

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 his or her work schedule.

☆ LOANS

Federal Perkins Loan: UT Pan American recognizes that loans are an increasingly important aspect of financing an education. Therefore, participating in the Federal Perkins Loan program, allows for 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, or there is a break in enrollment, he/she has nine months before he/she begins repayment on their Federal Perkins Loan.

Applicants are considered on the basis of financial need and demonstrated academic ability. Awards from this program are based on the availability of funds. Further information may be obtained from the Student Financial Services Office, Student Services Building, First Floor.

Federal Family Educational Loan Program (FFELP): FFELP offers subsidized and unsubsidized Stafford Loans. The first step in the application process is the completion of the Free Application for Federal Student Aid (FAFSA)

TYPES OF FINANCIAL ASSISTANCE

or Renewal 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. The student may also attend a pre-counseling session and complete the Federal Stafford Master Promissory Note, online at www.ess.panam.edu. This note is valid for 10 years if the student does not change lenders. A student may be eligible to borrow \$8,500 a year as a graduate student. The lender will send the loan proceeds to the University in at least two payments by Electronic Funds Transfer (EFT), which is credited to the student's university account. No single disbursement may exceed one half of the loan amount.

NOTE: If a student is not automatically awarded a Stafford Loan, he/she may visit www.utpa.edu/finaid to submit a request for additional financial aid.

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 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 charge is assessed against each loan. Funds are limited. Apply at the Student Financial Services Office, Student Services Building, First Floor.

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 required to pay a processing fee per semester. Students may borrow up to the amount of tuition and fees. Applications and information about the Emergency Loan program are available at the Student Loan Collections Office in Room 214 of the Marialice Shary Shivers Administration Building.

☆ SCHOLARSHIPS

No More Paper Applications: Apply online at www.utpa.edu/scholarships. *Deadline:* Dec. 1.

UTPA Excellence Scholarship: Application deadline is Dec. 1. 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 and application requirements, view our UT Pan American Scholarships Guide online at www.utpa.edu/scholarships. Criteria, and who to contact for an application, are provided for each scholarship and because the scholarship process is very competitive, students are encouraged to apply early and to make sure their applications are complete when submitted. The deadline to apply for most scholarships is Dec. 1.

It is UTPA's policy not to award institutional scholarships in excess of your cost of attendance. If you should receive such a scholarship then it may be subjected to a reduction or cancellation of the award.

☆ COMPETITIVE SCHOLARSHIPS

Certain University scholarships are designated as competitive scholarships. A nonresident or international student who, in competition with other students, including Texas residents, is awarded the designated competitive scholarships may qualify for a waiver of the difference between the tuition charged to a resident and nonresident student. To be eligible, the nonresident student must be awarded a competitive scholarship of at least \$1,000 for the academic year, summer sessions or both by an official scholarship committee of the University. Competitive scholarships are granted for the purpose of encouraging academic excellence in the academic program in which the student is enrolled.

As per UTPA policy and procedures, competitive scholarships shall be awarded on a competitive basis based on demonstrated academic achievement, or potential, as evidenced by scores on standardized tests, earned grade point average or other relevant criteria. (HOP 5.1.4)

☆ 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



Student Financial Services Office 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
Student Financial Services Office, SS 186
Attn: Scholarship Coordinator
1201 W. University Drive
Edinburg, TX 78539-2999

No credit will be entered into a student's account before the check arrives. It is UTPA's policy to equally divide external scholarships between fall and spring semesters unless otherwise specified by the donor.

Once the check is received, the Student Financial Services Office will credit the student's account with the scholarship amount. If agreeable to the donor, the student will receive any remaining monies at disbursement, which takes place after the 12th class day of the fall and spring semester and after the fourth class day of each summer session. Disbursement amounts are mailed to the student's billing address.

★ 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.

Business Administration Doctoral Fellowships: The College of Business Administration awards a limited number of fellowships to doctoral students based upon their research proposals or papers, with priority given to published papers. Applications are reviewed by the college doctoral committee. Fellowships are generally limited to expenses incurred.

★ TUITION WAIVERS

Distance Learning Fee Waiver: Students enrolled in distance learning courses may apply for a fee waiver. 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:

The University of Texas-Pan American
Office of the Vice President for Business Affairs
Student Services Building, Room 5.101
1201 W. University Drive
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 Waiver: A student or specific category of students may apply for a waiver of mandatory or discretionary fees. Fee waivers 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 waiver is in the best interest of the institution or is critical to the viability of an academic initiative. Fee waivers will not be granted for tuition or laboratory fees. Students must submit a written request with supporting documentation (as needed) to:

The University of Texas-Pan American
Office of the Vice President for Business Affairs
Student Services Building, Room 5.101
1201 W. University Drive
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.

Mexican Nationals: Citizens of Mexico may apply for a nonresident tuition waiver. To be eligible, a student must be enrolled full-time, have F-1 student documents and must apply before the required deadline dates. For information about this program, contact the international student advisor at the University Center, Room 113, or call 956/381-2922.

Competitive Scholarships: Certain University scholarships are designated as competitive scholarships. A nonresident or international student who, in competition with other students, including Texas residents, is awarded one of the designated competitive scholarships, may qualify for a waiver of the difference between the tuition charged to a resident and a nonresident student. To be eligible, the nonresident student must be awarded a Competitive Scholarship of at least \$1,000 for the academic year, summer sessions or both by an official scholarship committee of the University. Competitive Scholarships are granted for the purpose of encouraging academic excellence in the academic program in which the student is enrolled.

As per UTPA policy and procedures, competitive scholarships shall be awarded on a competitive basis based on demonstrated academic achievement, or potential, as evidenced by scores on standardized tests, earned grade point average or other relevant criteria. (HOP 5.1.4)

Senior Citizen Waiver: Senior citizens may be exempted 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 65 years of age or older. For more information, contact the Student Financial Services Office,

TYPES OF FINANCIAL ASSISTANCE, TUITION WAIVERS

Student Services Building, First Floor, or call 956/381-2501.

Fifth Year Accounting Student Scholarship: 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 \$3,000 (lifetime maximum) to eligible students to assist with the cost of completing the educational requirements to sit for the CPA exam in Texas.

To apply a student must:

- show financial need (a FAFSA must be completed to determine need);
- student does not have to major in accounting;
- have completed at least 120 credit hours (including at least 15 hours of accounting);
- be making satisfactory academic progress according to the Student Financial Services Office;
- have at least a 2.5 GPA; and
- be willing to sign a written statement confirming your intent to take the uniform Certified Public Accountant (CPA) examination in Texas for the purpose of becoming a CPA.

Applications are available in mid-June at the Student Financial Services Office. Funding is limited, so only complete and eligible 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 funds are targeted to students from rural communities. Some are targeted to graduate students in nursing.

To apply, a student must:

- be a Texas resident;
- show financial need (a FAFSA must be completed to determine need);
- register for the Selective Services or be exempt from this requirement;
- enroll in classes leading to Licensure as a Professional Nurse; and
- be enrolled at least on a half-time basis.

Applications are available in mid-April in the Student Financial Services Office or the Department of Nursing. Only complete applications will be considered.

Texas National Guard Tuition Assistance Program: The purpose of the program is to provide an exemption from the payment of tuition to eligible individuals in the Texas National Guard, Texas Air Guard, or the State Guard attending public or private institutions of higher education in Texas.

Individuals may receive tuition assistance for up to six semester hours, but it will not exceed six semester

hours per individual for any given semester. Funding does not cover fees.

To apply individuals must:

- be a Texas resident;
- register for the Selective Service or be exempt from this requirement; and
- be an active, drilling member of the Texas National Guard, Texas Air Guard or the State Guard.

Students eligible for the exemption will be reimbursed after the 12th class day of the semester. Summer semesters are not covered.

Students interested in applying must contact the unit commander of his/her National Guard, Air Guard or State Guard unit or the Education Officer, State Adjutant General's Office, P.O. Box 5218/AGTX-PAE, Austin TX 78763-5218 or at 512/465-5001. The Education Office will provide instructions. You can also visit the Texas National Guard Web site at http://www.agd.state.tx.us/education_office/state_tuition.htm.

The Hazlewood Act: (Section 54.203 of the Texas Education Code)

Student Eligibility: The purpose of the Hazlewood Act is to encourage U.S. veterans to pursue higher education at federal and state expense. This act exempts the veterans of World War I, World War II, the Korean War, the Vietnam Conflict, and the Persian Gulf War which began on Aug. 2, 1990, and ends on the date thereafter prescribed by Presidential proclamation or Sept. 1, 1997, whichever occurs first; or any future national emergency declared in accordance with federal law, who have no remaining Veterans Administration educational benefits, from the payment of tuition, laboratory fees, building use fees, and individual instruction fees. It does not exempt such veterans from the payment of student service fees or other fees and deposits. In addition to veterans, children of members of the Armed Forces who were killed in action or died while in the service are also exempted from the payment of tuition.

An applicant must:

- have been a Texas resident at the time of entering the service and before the date of class registration;
- have been honorably discharged, have served for at least 180 days of active service excluding training, and have not been discharged because of a personal request;
- submit a copy of his/her DD-214 form;
- submit a letter from the Veterans Administration in Muskogee verifying that eligibility for benefits has terminated;
- submit a Hazlewood Act Application prior to enrollment.



Tuition and Fee Exemption for Blind and Deaf Students: Blind or deaf individuals may be eligible for exemption from payment of tuition if appropriately certified by a state vocational rehabilitation agency. For more information contact the Texas Commission for the Blind.

Good Neighbor Scholarship: A limited number of Good Neighbor Scholarships, which provide exemption of tuition, are available to native-born citizens and residents from nations of the Western Hemisphere other than the United States and Cuba. Information is available from the international student advisor in the University Center, room 113, or call 956/381-2922.



ENROLLMENT

★ GENERAL INFORMATION

☆ CLASSIFICATION

Special 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.

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

Special graduates are students who have earned a graduate degree and are continuing in another master's program.

Doctoral students have been accepted to a doctoral program.

Special doctoral students are students who have earned a doctoral degree and are continuing in another 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 182. 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 260 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	Graduate level - limited to students accepted for graduate study only
6000-numbered courses	Graduate level - limited to students accepted for graduate study only
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 to officially enroll in or audit master's or doctoral level coursework.



☆ 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)
DP	Drop Passing	(not considered in calculating grade points or attempted hours)
DF	Drop Failing	(considered as an "F" for calculating the grade point average)
W	Withdrawal from School	(not considered in calculating grade points or attempted hours)
WP	Withdrawal Passing	(not considered in calculating grade points or attempted hours)

WF Withdrawal
Failing

(considered as an "F" for calculating the grade point average)

◆ 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," "DF" and "WF."

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 (for grade of "A") X 3 (hours) = 12 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	Hours	Points Attempted	Total Points
ENG	6300	A	3 hours	X 4 pts. per hr.	= 12
COMM	6340	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

A grade of "I" may be given when a student has not completed the required work of a course within the allotted time of a regular semester or summer session



if the instructor determines that the reasons for the work being incomplete are valid and that the grade of "I" is justified. A grade of "I" must be changed within one regular (fall or spring) semester (excluding thesis courses) from the date received, unless an extension is requested by the student's instructor. If a change of grade form is not received from the instructor upon completion of the one regular semester, the grade will automatically be recorded as an "F" on the student's official transcripts.

Improper Use of the "I" Grade: A student must not be given an "I" grade to permit the student time to prepare coursework in addition to that assigned the entire class, time to repeat the entire course or the opportunity to raise a grade. "Incomplete" grades are not issued for student or faculty convenience; they may be issued for the reasons stated in the paragraph 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 pages 53-54 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 by a touch-tone telephone, and 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 receive a Registration Access Code (RAC) and be eligible for registration by ASSIST. Students with admission, disciplinary or financial holds will not be permitted to register until such time as the hold has been cleared. A schedule change period by telephone and Web is scheduled prior to the beginning of each semester. Students who register during the designated late registration periods will be assessed additional late fees.

Computers are available in the Academic Services Building for students to use 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 43 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 must submit a new official degree plan.

☆ ADVISEMENT

Prior to registering, students go through academic advisement in their major department to be counseled

REGISTRATION PROCEDURES/POLICIES

concerning the best selection of courses. At advisement, each student receives a Registration Access Code (RAC) that provides access to the ASSIST telephone/Web registration system.

★ 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 associate vice president for Academic Affairs, Graduate Programs and Research.

★ 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 49.

★ 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/processed. Students who drop all courses for which they are enrolled are considered to have withdrawn from the University for that semester. (For more information on withdrawal, see the section on Withdrawal from the University below.)

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 by the published date in the Registration Bulletin in ASSIST or refer to the university calendar beginning on page six for drop deadlines. A student dropping a course during the first 30 calendar days of the semester (10 days in a summer session) will receive a "DR" on the permanent record for the course dropped. If a course is dropped later in the semester, the student will be given a grade of "DP" or "DF" by the instructor for the course dropped.

If a student chooses not to attend a class or classes, he or she is responsible for officially dropping or withdrawing through the Office of the Registrar. 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. (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 at www.assist.utpa.edu for refund schedules.

★ WITHDRAWAL FROM THE UNIVERSITY

To withdraw from the University, a student must complete a formal withdrawal slip through the Office of the Registrar at least four weeks 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. For more information, call 956/381-2201.

A student withdrawing during the first 30 calendar days of a semester (10 calendar days in a summer session) will receive a "W" on his or her permanent record for each course in which the student was enrolled. If the student withdraws later in the semester, he or she will be given a grade of "WP" or "WF" by the instructor for each course in which the student was enrolled. Refer to the registration bulletin at www.assist.utpa.edu for refund periods, or see pages 29-30 for more details.

☆ 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 or 41.)
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.

★ 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,

AUDITING, OTHER PROCEDURES

- 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, and
- 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, and academic achievement. No partial or incomplete classroom records (for example, with grades of "F" omitted) will be given. Students who owe debts to the University may have their official transcripts withheld until the debts are paid.

★ 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 "DP" or "DF." 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 Services for Persons with Disabilities 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 47 or 61.

☆ VETERANS

The Office of Veterans' Affairs assists veterans in completing documents necessary to receive educational benefits for attendance at UT Pan American. Personnel coordinate activities with the Veterans Certification Officer in the Office of the Registrar, Student Services Building, Room 1.150. For more information, call 956/381-2280.

Students receiving VA educational benefits must make progress toward a degree as specified in this catalog under Satisfactory Academic Progress and Scholastic Probation and Suspension (see pages 32, 47 and below).

★ 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. 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 both the Graduate School and to the graduate program 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 — 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 20, 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. Refund of payment for any classes dropped due to ineligibility to continue will be determined by the University schedule for such refunds. 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. 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. leading to certification for teachers and administrators at the master's degree level, and
3. leading to the Doctor of Philosophy (Ph.D.) with a major in Business Administration, emphasis in International Business, and 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:

- ◆ College of Arts and Humanities
 - Art (MFA)
 - Communication (MA)
 - Creative Writing (MA)
 - English (MA)
 - English as a Second Language (MA)

- History (MA)
- Music (MM)
- Spanish (MA)
- Theatre (MA)

- ◆ College of Business Administration
 - Business Administration (MBA)
 - Business Administration with emphasis in International Business (Ph.D.)
 - Integrated Program: Bachelor of Business Administration/Master of Science in Accounting (BBA/MSA)
 - Master of Accountancy (MACC)
- ◆ 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)
 - Rehabilitation Counseling (MS)
 - Social Work (MSSW)
 - Pharmacy (PharmD) in cooperation with UT Austin
- ◆ 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)



- ◆ College of Social and Behavioral Sciences
 - Criminal Justice (MSCJ)
 - Clinical Psychology (MA)
 - Experimental Psychology (MA)
 - Public Administration (MPA)
 - Sociology (MS)

- ◆ Interdisciplinary Master's Degrees
 - Master of Arts in Interdisciplinary Studies (MAIS)*
 - Concentrations in
 - Anthropology
 - English
 - History
 - Music
 - Spanish

* *Specific degree requirements for the MAIS are found in anthropology, English, history and music in the departmental listings of this catalog.*

Master of Science in Interdisciplinary Studies (MSIS)*
 **See specific departments in this catalog for more information.*

☆ CERTIFICATION PROGRAMS

The University offers coursework leading to the following certifications and endorsements at the graduate level:

- ◆ Department of Curriculum and Instruction
 - Professional Elementary
 - Professional Elementary/Provisional Bilingual
 - Professional Secondary
 - Reading Specialist

- ◆ Department of Educational Psychology
 - Guidance and Counseling
 - Educational Diagnostician
 - Generic Special Education
 - Gifted Education
 - Teaching the Severely Emotionally Disturbed and Autistic

- ◆ Department of Health and Kinesiology
 - Professional

- ◆ Department of School Administration and Supervision
 - Middle-Management
 - Superintendent
 - Supervisor

★ 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 101, the doctorate in educational leadership on page 125 and the cooperative doctorate in pharmacy on page 128.

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 51.
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 at the University Bookstore and 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.

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. (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.

★ INTERDISCIPLINARY PROGRAMS

☆ MASTER OF ARTS IN INTERDISCIPLINARY STUDIES

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

Four areas — anthropology, English, history and music — have defined the courses required for a concentration in their area. See pages 177, 83, 87 and 91 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 and music have defined concentration areas in this catalog.

2. At least six hours of coursework in the area of

GRADUATE DEGREE INFORMATION

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.

☆ ADDITIONAL MASTER'S DEGREES

A student may receive additional master's degrees from UT Pan American in a different major.

A student seeking an additional master's degree is classified as a Special Graduate Student and 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 adviser 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 51 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.



ACADEMIC SUPPORT SERVICES

★ UNIVERSITY LIBRARY

The University Library is the campus center for resources that support the curricular offerings of The University of Texas-Pan American. The four-story brick and glass structure contains 122,500 square feet.

The library houses a collection of approximately 437,000 volumes, 300,000 government documents, 4,200 periodical subscriptions, one million units of microforms and 6,000 audiovisual items. Library collections are catalogued via OCLC and made available to patrons by the III circulation and public access automated library systems.

Of interest to the region and beyond 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 reference area has numerous microcomputers connected to the library local area network (LAN) and available for accessing information resources and e-mail. Connectivity with the Internet provides access to the catalogs of other library collections and shared databases made available by The University of Texas System and the TexShare project. Available via CD-ROMs, the Internet or stand-alone systems are an array of different subject area citation and abstract databases; many include full text articles. Library patrons are offered services that include reference and information consultation and assistance, computerized database searching, interlibrary loan and library use instruction.

Graduate students:

All UT Pan American graduate students must be registered in order to borrow materials from the library and obtain the use of 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 and/or spring semester(s) may join the Friends of the Library for library privileges.

The benefits of the Friends of the Library membership extended for one full year are that members:

- a. are eligible to borrow library materials in accordance with established University Library circulation policies;
- b. are eligible for interlibrary loan privileges and

◆ 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. Commencement exercises are scheduled for 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.



establishment of a SLIP account through the Computer Center;

c. receive in advance the library newsletter and notification of all special events sponsored by the organization and will be admitted free of charge to such events; and

d. receive advance admission to the annual book sale.

Graduate students enrolled in cooperative programs:

Graduate students enrolled in cooperative programs must be registered in either of the cooperating institutions to have library privileges. They will follow the policy for UT Pan American graduate students.

The program coordinator must submit a letter with the list of students in the cooperative program to the access services librarian. *The list must include the following information:*

- a. the names of the students,
- b. the students' Social Security numbers,
- c. the students' mailing addresses,
- d. the students' telephone numbers,
- e. the name of the institution where the students are registered, and
- f. the name of the program.

Graduate students with incomplete courses:

UT Pan American graduate students who are not enrolled and with incomplete courses during the fall or spring semesters need to purchase the Friends of the Library card if they wish to use the library services.

Resources of the University Library are available seven days a week during regular academic sessions. Detailed information about hours and services may be obtained at the circulation desk, which can be reached by telephone at 956/381-3306 or voice/TDD 956/381-2763.



★ ENGLISH LANGUAGE INSTITUTE

The UT Pan American English Language Institute provides instruction for students whose first language is not English and who need better preparation before entering a degree program at the University.

ELI offers an Intensive Day Program (192 hours), a Semi-Intensive Evening Program (48 hours) and a Semi-Intensive Saturday Program (48 hours).

The ELI is located in Building E, Room 102. For more information, call 956/381-2133; e-mail: eli@utpa.edu; or visit: <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 various locations on campus. Personal information is protected by a Personal Identification Number (PIN), which initially is the student's date of birth entered as a six-digit number (for example, March 15, 1964, is entered as 031564).

A Registration Access Code (RAC) and PIN are required to access ASSIST registration services. The RAC is issued to students by an academic adviser 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 RIGHTS AND RESPONSIBILITIES

☆ STUDENT GUIDE

Students are responsible for becoming familiar with policies that govern students. *The University of*

Texas-Pan American Student Guide provides detailed information on numerous aspects of campus life and University policies governing students. The *Student Guide* is available online at <http://www.utpa.edu/dept/dos/slts/EZ/StudentGuide/studentguide.htm>

★ STUDENT RIGHT TO KNOW AND CAMPUS SECURITY ACT

In compliance with the federal Student Right-to-Know and Campus Security Act of 1990, The University of Texas-Pan American publishes an annual report with specified information on certain campus crime statistics. One purpose of this federal legislation is to give students, prospective students, parents of students, employees and others who may be interested in 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 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.

The University Police Department maintains a police substation at the University Library as well as emergency phones throughout campus with direct lines to the Police Department. The department also provides escort to and from any location on campus upon request.

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.

To report a crime, call the University Police at 956/316-7151. In the event of an emergency, call H-E-L-P (381-4357), or dial 911, 24 hours a day, 365 days a year.

Crimes reported at UT Pan American 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.

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 student code of conduct. University

policies related to the possession, sale and use of alcoholic beverages on campus are described in The University of Texas-Pan American *Student Guide*. The *Student Guide* is available online at <http://www.utpa.edu/dept/dos/slts/EZ/StudentGuide/studentguide.htm>

Other policies that pertain to crime reporting and crime prevention, facilities access and security, authority of police and related matters are contained in the *Student Guide* and in the University's *Handbook of Operating Procedures*. All are available from the Office of the Dean of Students and the Office of University Relations.

The following offices are available to assist you:

University Police	316-7151 or H-E-L-P (4357)
Dean of Students	381-2260
Student Health Services	381-2511
Counseling Center	381-2574
Substance Abuse Services	318-5375

★ 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 a federal and a state law 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) and this catalog. The catalog is made available for inspection through the Graduate School and the Office of the Registrar and copies of the *Handbook of Operating Procedures* are available in the University Library, most administrative offices, and on the Internet at <http://www.utpa.edu/hop>.

The University will not permit access to or the release to any party of personally identifiable information contained in student education records without the written consent of the student, except as authorized by FERPA. FERPA's authorizations for release without consent include the following:

1. To teachers, professors or instructors or other college officials who have a legitimate educational interest. 34 CFR 99.31 (a)(1).
2. To officials of another college or postsecondary institution where the student seeks to enroll. 34 CFR 99.31(a)(2).



3. To authorized representatives of the Comptroller General of the United States, the Attorney General of the United States, the Secretary of the Department of Education, or state and local educational authorities. 34 CFR 99.31(a)(3).

4. In connection with the application for, or receipt of, financial aid. 34 CFR 99.31(a)(4).

5. To state and local juvenile justice systems or their officials. 34 CFR 99.31(a)(5).

6. To organizations conducting educational studies. 34 CFR 99.31(a)(6).

7. To accrediting organizations. 34 CFR 99.31(a)(7).

8. To parents, as defined in 99.3, of a dependent student under the Internal Revenue Code. 34 CFR 99.31(a)(8).

9. In compliance with a judicial order or other lawfully issued subpoena. 34 CFR 99.31(a)(9).

10. To court, without consent, court order or subpoena, if a parent or student has initiated legal action against an educational agency or institution, or if an educational agency or institution has initiated legal action against a parent or student. There is no longer a requirement that an educational agency or institution give notice before disclosure. 34 CFR 99.31(a)(9)(iii).

11. In connection with a health or safety emergency. 34 CFR 99.31(a)(10).

12. If designated as directory information. 34 CFR 99.31(a)(11).

13. To the parents of a non-eligible student or an eligible student. 34 CFR 99.31(a)(12).

14. The final results of disciplinary proceedings by postsecondary institutions concerning a crime of violence or nonforcible sex offense. 20 USC 1232g(b)(6), as amended by 951 of the Higher Education Amendments of 1998 and 34 CFR 99.31(a)(13) and (14).

15. To parents of an eligible student under the age of 21 in connection with use, or possession of, alcohol or a controlled substance in violation of law or institutional policy. 20 USC 1232g(i), added by 952 of the Higher Education Amendments of 1998 and 34 CFR 99.31(a)(15).

The University will release information in student education records to appropriate University officials as indicated in 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 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 vice president for Business Affairs for each student and will also be made available for inspection pursuant to this policy. If the institution discovers that a third party who has received student records from the institution has released or failed to destroy such records in violation of this policy, it will prohibit access to educational records for five years. Respective records 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, honors 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 any or all directory information withheld by notifying the Graduate School in writing. Request for nondisclosure will be honored by the University 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.

STUDENT SERVICES AND INFORMATION

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
Graduate School, AB 116
Office of the Registrar, SS 1.150
College, Division, Department and Faculty Offices

Student Affairs/Student Services Records
Counseling Office:
Director of Counseling, LEAC 156 or UC 109
Student Services: Dean of Students, UC 104
Housing Office: Director of Residence Life, UC 315
Office of Career Placement Services: Director, SS 2.101

Financial Records
Business Office: Vice President for Business Affairs,
SS 5.101
Student Financial Services: Director, SS 1.140

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 Jan. 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; *or*
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 not, 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.

Student 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 and 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, will 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 institution.

◆ 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. 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 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 of the college 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. The dean's decision will be final and must be mailed or delivered in person to the student within 10 class days of the receipt of the student's written appeal. This policy may be found in the *Student Guide*.

☆ 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.

☆ 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:

1. *Title IX (non-discrimination on the basis of sex):* Student inquiries or complaints concerning Title IX or discrimination on the basis of sex may be presented to the director of the department in question or to the Dean of Students (Compliance Officer), University Center 104, 956/381-2262.

2. *Sexual Harassment:* The University of Texas-Pan American condemns sexual harassment of its students, staff and faculty. 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, University Center 104, 956/381-2262.

The University's policy concerning sexual harassment may be found in the *Student Guide* and the *Handbook of Operating Procedures* (HOP).

3. *AIDS-Related Issues:* Students may not be subjected to impermissible discrimination on the basis of Acquired Immune Deficiency Syndrome (AIDS) or Human Immunodeficiency Virus (HIV). The policy addressing AIDS-related issues may be found in the *Student Guide* and the *Handbook of Operating Procedures*. Student complaints or inquiries should be directed to the Director

STUDENT ACADEMIC RESPONSIBILITIES AND APPEALS

of Student Health, Emilia Schunior Ramirez Hall, Room 1.105, telephone 956/381-2511.

4. *Section 504 of the Rehabilitation Act/Americans with Disabilities Act*: The University of Texas-Pan American provides for the prompt and equitable resolution of complaints alleging violations of these acts, including complaints regarding a refusal to provide requested accommodations and auxiliary aids or services and programs that are perceived to be inaccessible. Students should address ADA or Section 504 complaints to:

The University of Texas-Pan American
ADA Coordinator
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: 956/381-2127

★ 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 *Student Guide*, the *Handbook of Operating Procedures* (HOP) and pages 55 and 59 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, Room 5.101, 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. Additional appeals may be pursued through administrative channels. Students should consult "Student Complaint Procedures" in the *Student Guide* or *Handbook of Operating Procedures* (HOP) for detailed information or request assistance from the Office of the Dean of Students, University Center 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

All students at The University of Texas-Pan American are subject to the rules and regulations governing student conduct and discipline as described in the UT Pan American *Student Guide* and *Handbook of Operating Procedures* (HOP) and in Part One, Chapter VI, Section 3 of the *Rules and Regulations* of the Board of Regents of The University of Texas System. These documents are available for review in the University Library, the Office of the Dean of Students and the Office of the Vice President for Enrollment and Student Services.

★ HAZING

Hazing is both a violation of University policy and a criminal offense (Sections 37.151 et seq. and 51.936, Texas Education Code) and may result in arrest and prosecution by civil authorities as well as disciplinary action pursuant to the Regents' *Rules and Regulations* (Part One, Chapter VI, Sections 3.28 and 3.6) and the University's *Handbook of Operating Procedures* (HOP), Section 5.5.2.

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

According to state law, a person can commit a hazing offense not only by engaging in a hazing activity, but also by soliciting, directing, encouraging, aiding or attempting to aid another in hazing; by intentionally, knowingly or recklessly allowing hazing to occur; or by failing to report in writing to the 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.

In an effort to encourage reporting of hazing incidents, the law grants immunity from civil or criminal liability to any person who reports a specific hazing event to the dean of students or other appropriate individual of the institution and immunizes that person from participation in any judicial proceeding resulting from that report. The penalty for failure to report is a fine of up to \$1,000, up to 180 days in jail, or both. Penalties for other hazing offenses vary according to the severity of the injury which results and include fines from \$5,000 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; and
- Any activity that induces, causes, or requires the student to perform a duty or task which involves a violation of the Penal Code.

☆ SOLICITATION ON CAMPUS

The University’s policy on solicitation is outlined in The University of Texas System Regents’ *Rules and Regulations*, Part One, Chapter VI.6.6. (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 that is designed to encourage the purchase, use or rental of any property, product, merchandise, publication or service; the oral or written appeal or request to support or join an organization other than a registered student, faculty or staff organization; 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.)

★ STUDENT SERVICES

☆ CAREER SERVICES

In a time when heavy academic emphasis is being placed on career-oriented programs, UT Pan American’s Office of Career Services is an important component of any student’s preparation.

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

The UT Pan American Office of Career Services places students in jobs in three ways. During the students’ college years, the office will assist them in locating part-time employment. An internship or co-op assignment is strongly encouraged during the sophomore and junior years for any student wishing to improve his/her job marketability.

Then as they approach graduation, the office helps connect them with prospective employers for permanent career placement. Many major corporations, government agencies and other top employers recruit at UT Pan American each year.

Placement: A placement credential service, online resume service and on-campus interviews are available for seniors. Special activities are also held for all UT Pan American students and alumni in preparation for a career search. These include Career Day, Teachers Job Expo, Health Professions Career Day, Graduate and Professional School Fair, Engineering and Computer Science Career Day and job preparation workshops, as well as other activities.

Career Information Center: The Career Information Center houses a computer/printer with Internet capability to assist students in conducting company research. A kiosk sponsored by U.S. Customs facilitates student access to all federal government jobs; sources of occupational information, registers and directories; fellowship and scholarship information; and graduate/professional school catalogs.

Student Employment Services: A number of local businesses and agencies contact the office seeking students for part-time or full-time employment. The Student Employment Service operates as a referral system to match these employers with UT Pan American

students. International students are required to apply through the international student advisor in the Communication Arts and Sciences Building (COAS), Room 125, telephone 956/381-2922.

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

The Co-op Program has three options:

◆ *Alternating/Full-time* — Students alternate semesters or six-month terms of full-time work with full-time study.

◆ *Parallel/Part-time* — Students work part-time, usually 25 hours or less, while continuing to take classes.

◆ *Summer Internship* — Students work during the summer months on a full-time basis.

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

- have completed a minimum of 30 semester credit hours,
- maintain at least a 2.0 grade point average,
- be enrolled at least half-time (six hours), and
- either be currently enrolled or have been enrolled the previous semester and be registered for the upcoming semester.

The Co-op student may be eligible to receive academic credit for his or her Co-op work assignment in ART 4391, COMM 3623, COMM 3627, CRIJ 4402, GENB 2346, POLS 2343 and POLS 3185. Refer to the course descriptions in the academic departments section of this catalog for more information.

The Office of Career Services is located in the Student Services Building, second floor, telephone 956/381-2243, e-mail career_place@utpa.edu or Web site <http://dua.utpa.edu/careerplacement/>

★ UNIVERSITY TESTING SERVICES

The University of Texas-Pan American 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), Miller Analogies Test (MAT), Medical College Admission Test (MCAT) and a number of others.

University Testing Services is located at the UTPA Annex, 2412 S. Clossner, Edinburg, TX 78539-2999. Telephone 956/316-2457. E-mail: testing@utpa.edu

★ SERVICES FOR PERSONS WITH DISABILITIES

The Office of Services for Persons with Disabilities (OSPD) is designed to provide supportive services that meet the educational, career and personal needs of persons with disabilities who attend or plan to attend UT Pan American.

Major program responsibilities include:

- identifying persons with disabilities, verifying disabling condition(s) and determining and providing appropriate accommodations to meet students' needs,
- promoting full utilization of existing resources, full participation and enjoyment of the University environment, and the development of better, more effective methodologies for meeting special needs,
- increasing service and disability awareness among UT Pan American students, faculty, staff and the general public, and
- promoting and assisting with the development of "accessible" programs and facilities at UT Pan American.

Persons with disabilities requiring information or services are encouraged to contact the OSPD as early as possible. Requests for services must be accompanied by professional assessments/reports not more than three years old from individuals qualified to diagnose the disability involved.

Additional information may be obtained by calling 956/316-7005 (voice/TDD 316-7092, fax 316-7034) or visiting Emilia Schunior Ramirez Hall, Room 1.101.

★ STUDENT HEALTH SERVICES

Student Health Services at The University of Texas-Pan American 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 Clinic 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 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 has recently moved from the first floor of Emilia Schunior Ramirez Hall to a new facility adjacent to the Wellness and Sports Recreation



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 Service is accredited by the Accreditation Association for Ambulatory Health Care, Inc. (AAAHC). UTPA has the distinguished honor to be the first in the UT System to hold the AAAHC accreditation. There are currently only five (5) college health facilities accredited in the state of Texas.

◆ 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 in 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 SHS for a nominal fee. Call SHS 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: MMR, TD, Hepatitis B, Varicella, Meningitis and flu vaccines are available. TB skin testing is also offered.

Women's 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.

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

☆ EMPOWERMENT ZONE: SUBSTANCE ABUSE SERVICES

The Empowerment Zone: 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. All individual counseling is by appointment. Substance Abuse Services also provides group counseling through a campus recovery group. Groups are run once a week at designated times. The Substance Abuse Services staff is available for referrals, consultations, group presentations and crisis intervention services.

Substance Abuse Services is located in the University Center, Room 305, telephone 956/318-5375. Substance Abuse Services is open from 8 a.m.-5 p.m., Monday through Friday.

☆ 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, telephone 956/381-2541.

☆ CLUBS AND ORGANIZATIONS

A variety of clubs and organizations offer the UT Pan American student friendship, relations with other 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. The office telephone numbers are 956/381-2660 or 956/381-2636. The list below is the University's current listing of Registered Campus Organizations.

◆ UTPA Fraternities

Delta Upsilon
Kappa Sigma
Omega Delta Phi
Tau Kappa Epsilon
Phi Kappa Theta
Phi Sigma Kappa
Sigma Lambda Beta

◆ UTPA Honor Societies

Alpha Kappa Delta
Alpha Lambda Delta
Alpha Phi Sigma
Golden Key International Society
Lambda Alpha
Phi Theta Kappa Alumni Association
Psi Chi
Sigma Tau Delta

◆ UTPA Student Government Association

◆ UTPA Sororities

Alpha Sigma Tau
Delta Xi Nu
Delta Zeta
Eta Omega Tau
Kappa Delta Chi
Sigma Lambda Gamma

◆ UTPA Faith and Spiritual Organizations

Provide an opportunity for people with similar belief systems to share their values, ideas and faith.

◆ 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
Asociación 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 Mathematicians
Elliott Chemical Society
Financial Management Association
Forum on International Relations and Business Affairs
French Club
Graduate Association of Student Social Workers
History Club
Institute for Electrical and Electronic Engineers
Julian Castillo Association of Physical Assistants
MBA Association
Music Educators 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 for Exceptional Children
Student Dietetics Association
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

★ ACADEMIC CENTERS

☆ CENTER FOR APPLIED RESEARCH IN EDUCATION

The Center for Applied Research in Education (CARE) was founded in 1994 to serve as the research arm of the College of Education. CARE performs the following four functions for the College of Education:

- 1) conducts and supports educational research in South Texas and the Rio Grande Valley,

- 2) disseminates research to the local education community,
- 3) facilitates the professional development of College of Education students and faculty and
- 4) procures funding for educational research.

The center engages in cooperative research agreements with school districts in South Texas and the Rio Grande Valley in order to improve the quality of education for students at grades pre-K through higher education. CARE maintains a World Wide Web site on the Internet (<http://www.care.utpa.edu>) to serve as a research and information tool for students, faculty and clients. CARE is located in the Education Building, Room 114, telephone 956/381-3437.

☆ 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 region. Its research efforts are directed at publishing working papers and technical reports that encompass a wide array of economic and socio-economic 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. For further information about CBEST contact the Graduate School in AB 116, telephone 956/381-3661.

☆ CENTER FOR INTERNATIONAL STUDIES

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

Bravo Journal and *Letras Hispanas*. The Center for International Studies directs the Latin American Studies Center and the Mexican-American Studies Program. The center is located in the Communication Arts and Sciences Building, Room 342, telephone 956/381-3572.

☆ CENTER FOR TOURISM RESEARCH

The Center for Tourism Research 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 toward tourism. The center routinely conducts and publishes studies of the economic impact of these markets, especially on the South Texas region. These studies provide an opportunity for students to learn applied research methodologies and to become involved in the research activities of the center. The center is located in the Business Administration Building, Room 122, telephone 956/381-3395.

☆ 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:

Coastal Studies Laboratory
100 Marine Lab Drive
South Padre Island, Texas 78597
Telephone: 956/761-2644
Fax: 956/761-2913
E-mail: coastal@utpa.edu
Web site: <http://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 to academically prepare students whose goal is 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. The Institute is located in the Lamar Building, Room 1, telephone 956/381-2133, fax 956-384-5001.

☆ INSTITUTE FOR POPULATION HEALTH POLICY

The Institute for Population Health Policy 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. IPHP is located in ITT, Room 1.404N, telephone 956/318-5306.

☆ 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.



☆ 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. The center is located in the Business Administration Building, Room 216B, telephone 956/381-7136.

☆ RAÚL YZAGUIRRE POLICY INSTITUTE

The Raúl Yzaguirre Policy Institute (RYPI) is the first national Latino leadership and policy institute along the US-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) train Latino leaders at all levels and expose all leaders to Latino issues and (2) research 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. For further information about RYPI contact the Graduate School in AB 116, telephone 956/381-3661.

☆ 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. The center is located in the Health Sciences and Human Services Building West, Room 1.112, telephone 956/381-3587.

☆ 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. Our particular emphasis is 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. TMAC is located in Academic Support Facility 1.301, telephone 956/316-7011.

☆ 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. Border Health Office, UTPA Annex, 2412 S. Closner, Edinburg, TX 78539-2999, telephone 956/381-3687.



★ OUTREACH CENTERS

☆ OFFICE OF CENTER OPERATIONS AND COMMUNITY SERVICES (COSERVE)

COSERVE's main office is located in the International Trade and Technology Building, telephone: 956/381-3361, fax: 956/381-2322, Web site: <http://coserve1.utpa.edu>

COSERVE serves as an umbrella organization to a number of centers that provide services and support to businesses, governmental entities and individuals in the community.

COSERVE's mission is to promote growth, expansion, innovation and increased productivity and improve management skills in economic development, job creation and economic growth in the Rio Grande Valley. The activities and locations of individual centers are listed below.

◆ Center for Entrepreneurship and Economic Development (CEED)

CEED serves as a catalyst for business and economic development, job creation and income growth by providing a broad range of technical and educational assistance targeted to businesses, public officials, economic development organizations and the community in general. For information, call 956/381-3361.

◆ Small Business Development Center (SBDC)

The SBDC promotes the creation and development of small companies in the Lower Rio Grande Valley through one on one business counseling and training. The SBDC is a partnership program with the U.S. Small Business Administration. For information, call 956/316-2610.

◆ Data and Information Systems Center (DISC)

DISC is the storehouse and provider of timely, relevant and quality data about the people and economy of the Southwest Border Region. For information, call 956/381-3361.

◆ Southwest Border Nonprofit Resource Center (SBNRC)

SBNRC serves as the catalyst for sustainable, long-term development of nonprofit organizations in the Rio Grande Valley and South Texas. The center is located in the UT Pan American Annex, 2412 S. Closner Blvd., Edinburg, TX 78539-2999, telephone 956/316-2610.

◆ Mexican Business Information Center (MBIC)

MBIC provides the client with comprehensive information on Mexico to enable them to make better decisions and facilitate accurate analysis of Mexican market potentials. For information, call 956/381-3361.

◆ Industrial Partnership Center (IPC)

IPC assists manufacturers and suppliers in the Rio Grande Valley of Texas and Mexico by providing assistance in a global manufacturing environment. It also supports the post-secondary and secondary education systems in the area of advanced technical training, partnering with colleges and universities to provide training, services and assistance to students. For information, call 956/316-7011.

◆ The International Trade and Technology Center (IT2)

IT2 promotes international trade through the use of technology and provides access to a variety of managerial, research and technical services designed to promote international commerce. For information, call 956/381-3361.

◆ South Texas Minority Business Opportunity Committee (MBOC)

MBOC creates procurement and international trade opportunities by providing a vital link between corporations, government agencies and the minority entrepreneur while promoting partnership and economic development among the public and private sectors. MBOC is located in the UT Pan American Annex, 2412 S. Closner Blvd., Edinburg, TX 78539-2999, telephone 956/316-2610.

◆ Rio Grande Valley One Stop Capital Shop (OSCS)

OSCS seeks to develop businesses and create jobs in the Empowerment Zone and maximize business success by coupling financial programs with managerial and technical assistance. OSCS is located in the UT Pan American Annex, 2412 S. Closner Blvd., Edinburg, TX 78539-2999, telephone 956/316-2610.

◆ EDA University Center (EDA-UC)

EDA-UC serves as a catalyst to assist distressed communities in achieving their long-term competitive economic potential through the strategic investment of resources. For information, call 956/381-3361.

◆ Center for Local Government (CLG)

CLG works to increase the capacity of local governments (counties and cities) and special districts in the Rio Grande Valley of Texas to more efficiently



manage scarce public resources and to meet the present and future problems in a positive, creative and constructive manner. The director's office is located in the International Trade and Technology Building; the faculty advisor in the Social and Behavioral Sciences Building, Room 124. For information, call 956/381-3361.

◆ Community Outreach Partnership Center (COPC)

COPC mobilizes University and regional resources to act as a catalyst for community development in South Texas rural towns and colonias. COPC is located in the UT Pan American Annex, 2412 S. Clossner, Edinburg, TX 78539-2999, telephone 956/385-3808.

◆ Women's Empowerment Business Center (WEBC)

WEBC provides business and technical assistance to women entrepreneurs focused on their unique economic and societal needs. The center's special focus is on micro- and home-based businesses. The center is located in the UT Pan American Annex, 2412 S. Clossner Blvd., Edinburg, TX 78539-2999, telephone 956/316-2610.

★ 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 open to the public throughout the year. Works by UT Pan American students, faculty and other professional artists are exhibited. The Lamar Gallery, located in the Lamar School complex, exhibits works from the University's permanent collection. Gallery operations are administered through the Department of Art. The office for the University Galleries is adjacent to the Clark Gallery in the Fine Arts Complex. The gallery director can be reached at 956/381-2655. Web site <http://www.utpa.edu/dept/art/gallery.htm>.

☆ 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. The Dance Ensemble is located in the 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. Throughout 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. The Folkloric Dance Company is located in the Health and Physical Education Building II, Room 115, telephone 956/381-2230.

☆ FACULTY ARTIST SERIES

During the school year, the Department of Music presents a series of performances by faculty members and guest artists in addition to student recitals. Included in these recitals are vocal and instrumental performances. For information, call 956/381-3471.

☆ LIVING AUTHOR SERIES

Through its Living Author Series program, the Department of English brings prominent literary authors — novelists, poets, dramatists — to campus to address the student body and the public. Communication Arts and Sciences Building, Room 265, telephone 956/381-3421.

☆ MUSICAL PERFORMANCES

Performing for students and the public are the Choir, the Concert Band, the Jazz Ensemble, the South Texas Chamber Orchestra, the Mariachi and the Valley Symphony Orchestra and Chorale. For information, call 956/381-3471.

☆ 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), 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 card holders 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. The theatre can be found on the first floor of the Communication Arts and Sciences Building, 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 Director of Auxiliary Services, Academic Service Building, 1.102B telephone 956/381-2252.

For more information, consult the Regents' *Rules and Regulations* and the University's *Handbook of Operating Procedures* (HOP).





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 degree in art and the Master of Arts degree 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.utpa.edu/colleges/coah.cfm>



Anthony Crisafulli, *Department Chair*
 Fine Arts Building B, Room 225
 1201 W. University Drive
 Edinburg, Tx 78539-2999
 Telephone: 956/381-3480
 Fax: 956/384-5072
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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 16), as well as the other requirements listed below. Application for admission to the University must be made to:

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

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. Official transcripts of all previous academic coursework.
2. Applicable catalog(s) for evaluation of transcript(s).

◆ 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.
3. At least three letters of recommendation must be submitted by the applicant from individuals who are qualified to judge the applicant's artistic and professional potential.
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

ART, COMMUNICATION

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 UT Pan American. 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 as set forth on page 16.

★ COURSE DESCRIPTIONS

A listing of graduate courses offered by the Department of Art can be found on page 183.



COMMUNICATION

Dr. Salma Ghanem, *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: ghanem@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: Wiley@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,*

★ **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 PROGRAM IN COMMUNICATION**

In order to be admitted to the Master of Arts Program in Communication, the student must first meet all requirements for admission to the Graduate School of UT Pan American (see page 16), as well as other requirements specified below. Application for admission to the University must be made to:

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

All students applying for admission to the Master of

Arts program in communication are required to provide the graduate coordinator in communication with the following:

1. Letter of application.
2. Official transcripts of all previous academic coursework.
3. Three letters of recommendation.
4. GRE scores
5. 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 Advisor
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 6328	Applied Research
COMM 6320	Communication Theory
COMM 6322	Culture and Communication

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,

COMMUNICATION

English, sociology and business. Coursework must be approved by the graduate advisor.

Other Requirements	6 hours
Thesis <i>or</i>	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 degree 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 PROGRAM IN THEATRE

All students who wish to enroll in this graduate program must first meet the graduate admission

requirements for the University as outlined on page 16. Application for admission to the University may be made by contacting:

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

In addition, the director of the graduate program in the Department of Communication must be supplied with the following information:

1. Official transcripts of all previous graduate and undergraduate academic coursework
2. Applicable catalog(s) for evaluation of transcript(s).

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 students' 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 6344	Theatre Research	
Designated Electives		21 hours
COMM 5304	Scriptwriting	
COMM 5615	Summer Theatre Workshop	
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*	

**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 advisor.

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 advisor.

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 students' 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 advisor 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 192.



ENGLISH

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: porrasl@utpa.edu

Dr. Gary Schneider,
Graduate Director and Advisor
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, must include 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 graduate study at The University of Texas-Pan American. In addition, all students applying for admission to either program are required to provide the graduate advisor in the Department of English with the following:

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, and catalog(s) for evaluation of transcript(s), if necessary. (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 advisor 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 advisors 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

- ◆ **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 advisor 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 a 3.0 GPA is not recuperated during the following semester, the student will be placed on suspension. For more information, see page 47 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 & Cultural Studies and Rhetoric, Composition & 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 & 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
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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. 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 & 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 & 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 advisor's 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 & 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 advisor 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 advisor. Appropriate elective courses in English include, but are not limited to the following:

Electives		6 hours
ENG 6325	Studies in Composition Techniques	
ENG 6345	Problems in Grammar, Dialects and Language Performance	
ENG 6329	Problems in English as a Second Language with a second topic	
ENG 6351	Problems in Linguistics with a second topic	

Or others after consultation and the approval of the graduate advisor.



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 6345	Problems in Grammar, Dialects and Language Performance
ENG 6351	Problems in Linguistics (any topic)
ENG 6329	Problems in English as a Second Language with a second topic

Electives 9 hours

Nine additional graduate hours, chosen in consultation with the graduate advisor.

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 advisor.

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 advisor.

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 advisor. A course of study will be designed by the student, the graduate advisor and the student's graduate faculty mentor to include courses that meet individual needs. This focus is available for students working in education, the 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 advisor. 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 advisor.

★ 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 advisor.

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 advisor 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

At least three hours of workshop must be in a different genre from the student's 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 387 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 advisor:

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 210.



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*
Hay, Amy, *Assistant Professor*
Hernandez, Sonia, *Assistant Professor*
Knight, Dan, *Assistant Professor*
Mata, Jennifer, *Assistant Professor*
Pearson, Thomas, *Associate Professor*
Waite, Charles, *Assistant Professor*
Weaver, Michael K., *Associate Professor*
Wirts, Kristine, *Assistant 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 16 of this catalog, the following requirements must be met:

- Applicants for admission must have completed, or must complete as leveling work, 24 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 advisor.
- 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 Option

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 Option

Students enrolled in Option II will be required to take

HISTORY

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 advisor 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 advisor.

★ 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, 24 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 222.





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 Advisor*
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 Degree 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 DEGREE 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 221 (FREN) and 258 (SPAN).



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.utpa.edu/colleges/coah.cfm>

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*
 O'Neil, 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 degree 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, Men's 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

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 course work.

2. The applicant must have a 3.0 cumulative GPA for clear admission to the program.

3. The applicant must meet the requirements for the Graduate School at The University of Texas-Pan American.

4. 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.

5. 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 Methods	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+ Elective in Music History, Theory, Pedagogy, or Applied Music	6
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
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:

MUS		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

MUSIC

MUS	6334	Research Methods in Music	3
<i>Core Courses:</i>			
MUS		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:

MUS		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

Core Courses:

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

◆ 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
<i>Select from the following:</i>		
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
TOTAL		36 hours

★ COURSE DESCRIPTIONS

A listing of graduate courses offered by the Department of Music can be found on page 239.





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 who are working toward the Doctor of Philosophy (Ph.D.) in business administration with an emphasis in International Business, 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, the Ph.D. program director, the director of undergraduate studies, and the associate dean 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, and the Center for Tourism Research, conducting research on issues of tourism, border shopping behavior and ecotourism in the lower Rio Grande Valley area.

Dr. Teofilo Ozuna, *Interim Dean*
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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*
Business Administration Building, Room 114
Telephone: 956/381-3311
Fax: 956/381-3312
E-mail: pmsimpson@utpa.edu



Graduate Faculty

Accounting

Darcy, John, *Assistant Professor*
Lantz, Keith, *Professor*
Moyes, Glen, *Associate Professor*
Owusu-Ansah, Stephen, *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*
Rao, Mohan, *Associate Professor*
Roge, Joseph, *Associate Professor*
Rydl, Lester, *Associate Professor*
Simpson, Claude, *Associate Professor*
Wang, Bin, *Assistant Professor*

Economics

Damianov, Damian, *Assistant Professor*
Dávila, Alberto, *Professor*
Faria, Joao Richardo, *Associate Professor*
Mollick, Andre Varella, *Associate Professor*
Mora, Marie T., *Professor*
Ozuna, Teofilo, *Associate Professor*
Pagán, José, *Professor*
Sutter, Daniel, *Associate Professor*

Finance

Brown, Cynthia, *Associate Professor*

Jackson, Dave O., *Assistant Professor*
Simpson, Marc W., *Associate Professor*
Soydemir, Gokce, *Associate Professor*

International Business

Cortes, Angelica, *Associate Professor*
Joardar, Arpita, *Assistant 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*
Montiel, Ivan, *Assistant Professor*
Stevens, Michael J., *Associate Professor*
Sturges, David, *Associate Professor*
Wang, Lei, *Assistant Professor*
Wu, Sibin, *Assistant Professor*

Marketing

Avellano, George, *Professor*
Delossantos, Gilberto, *Professor*
Firat, A. Juat, *Professor*
Guo, Chiquan, *Assistant Professor*
Minor, Michael, *Professor*
Simpson, Penny, *Associate Professor*

Quantitative Methods

Sun, Jun, *Assistant Professor*
Tanguma, Jesus, *Assistant Professor*



GRADUATE PROGRAMS IN BUSINESS ADMINISTRATION

Dr. Kai S. Koong, 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: mbaprog@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, The Master of Accountancy (MACC) and Master of Science in Accounting (MSA). The mission of the business master's 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 MASTER'S DEGREE ADMISSION REQUIREMENTS

To be admitted to any of the master's programs in business, the student must first meet all requirements for admission to graduate study at The University of Texas-Pan American, as well as the additional requirements of each master's program in business. Application for admission to the University must be:

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

◆ All students applying for admission to a master's

program in business must provide the following to the University Office of Graduate Studies:

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 Master's Program

The student should note that classification and admission criteria for the master's 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 admission criteria (see page 16) must then be evaluated for admission to a master's 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 [$GMAT + (200 \times GPA) = 1000$] and MACC Program [$GMAT = (200 \times GPA) = 1050$].

* *Contact the business master's 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 master's programs. The completed application must be submitted to the director of business master's programs. New students applying for an assistantship must submit a letter stating that they do intend to enroll in a master's 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 master's 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 bachelor's 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 student's prior academic coursework and the suggested foundation courses.

In addition to fulfilling general requirements for a master's degree specified by The University of Texas-Pan American, candidates for the MBA should complete foundation courses or their equivalents.

MBA Foundation Courses			12 hours
INTB	6304	Business Foundations	3
ACCT	6301	Principles of Accounting	3
ECON	6301	Principles of Economics	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 master's programs.

MBA Core			27 hours
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

MBA DEGREE REQUIREMENTS AND PROGRAM

MIS	6330	Management Information Systems	3
MANA	6390	Strategic Management	3

Graduate Electives 9 hours

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, management, management information systems or marketing.

TOTAL FOR MBA DEGREE 36-48 hours

★ THESIS OPTION

A student may elect to write a thesis in lieu of six hours of graduate elective coursework.

★ THREE "C" RULE

A master's candidate is ineligible to continue in the program if a grade of "C" or lower is received in three or more of the following core courses:

ACCT	6320	Financial and Managerial Accounting
MANA	6330	Organizational Behavior
FINA	6340	Financial Administration
ECON	6350	Managerial Economics
MANA	6360	Operations Management
MARK	6370	Marketing Policy and Management
MIS	6330	Management Information Systems
QUMT	6310	Business Research Foundations

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
ECO	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		

★ PROFESSIONAL MBA PROGRAM (WEEKEND)

The Professional MBA Program is a 24-month program designed to educate students to function effectively as leaders in today's changing and challenging business world. The program is scheduled to accommodate executives and professional individuals who wish to pursue a graduate business education while maintaining full-time employment.

The program consists of four sessions spanning a 24-month period. Once admitted to the program, the graduate student must enroll for prescribed coursework in each session. Each spring and fall session is scheduled for 14 weekends and generates an average of nine hours of academic credit. All class meetings are scheduled on Saturdays. Success in the program requires a serious



commitment by the student and the support and encouragement of the employer. Additional information may be obtained by contacting the director of the business master's program.

★ MBA ONLINE PROGRAM INFORMATION

This challenging degree program pools the impressive resources and diverse perspectives of accredited 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 website 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.

☆ MBAONLINE 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 MBAOnline Program will vary depending on which campus hosts that course. Since the MBAOnline 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.



MASTER'S PROGRAMS IN ACCOUNTING

Dr. John Darcy, *Director/Coordinator*
 Business Administration Building, Room 220
 1201 W. University Drive
 Edinburg, TX 78539-2999
 Telephone: 956/383-2406
 Fax: 956/381-2407
 E-mail: johndarcy@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 admission to graduate study at The University of Texas-Pan American, as well as the MACC requirements specified under business master's degree admission requirements. Application for admission to the University must be made to:

Office of Graduate Studies
The University of Texas-Pan American
Business Administration Building, Room 114
1201 W. University Drive
Edinburg, TX 78539-2999

★ MSA PROGRAM

To be provisionally admitted to the MSA accounting 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.

Unconditional 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 bachelor's degree; further, such students may seek admittance into the MACC program to complete a graduate degree in accounting.

★ DEGREE REQUIREMENTS

☆ MASTER OF ACCOUNTANCY — MACC

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 3327	Fundamentals of Auditing	3
ACC 3329	Intermediate Accounting III	3
ACC 4330	Advanced Accounting	3
ACC 3326	Accounting Information Systems	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	
ACC	6320	Financial and Managerial Accounting	

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 49 SCH
Consisting of the University core requirements at UTPA.

b. Courses required of all students in the MSA

1. Business Foundation (20 hours) 20 SCH

ACC	2301	Introduction to Financial Accounting	4 3
ACC	2302	Fundamentals of Managerial Accounting	3
CIS	1101	Introduction to Office Software and	1
CIS	1201	Introduction to Information Systems Technology	2
		<i>or</i>	
CIS	1301	Computer Information Systems	3
ECON	1301	Principles of Economics I	3
ECON	2302	Principles of Economics II	3
MATH	1340	College Algebra	
		<i>or</i>	
MATH	1341	Business Algebra	3
MATH	1342	Business Calculus	
		<i>or</i>	
QUMT	2340	Introduction to Quantitative Methods in Business	3
COMM	1303	Presentational Speaking	
		<i>or</i>	
COMM	1313	Fundamentals of Speech Communication	3

2. Business Core 33 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	
		<i>or</i>	
FINA	3381	Money and Banking	3
MANA	3361	Principles of Management and Organizational Behavior	3
ACC	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 (Consolidations)	3

4. Master's 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	3
MACC	6380	Professional Ethics	
ACC	6320	Financial and Managerial Accounting	

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 152-158 SCH

**ACC 3326 is substituted for CIS 3390 Management Information Systems. ACC 3328 Advanced Management Accounting is substituted for MANA 4363 Production*



Management.

***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 rather than CIS 3390 Management Information Systems. Also, the student takes ACC 3328 Quantitative Methods in Accounting rather than MANA 4363 Production Management. 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 department to enroll in more than nine hours of graduate work during a single semester.

★ COURSE DESCRIPTIONS

Descriptions of the courses for the master's program in business can be found under the appropriate course prefix title in the Course Descriptions section of this

catalog beginning on page 182 (ACC) or 226 (MACC).

DOCTORAL PROGRAM IN BUSINESS ADMINISTRATION

Dr. Marc W. Simpson, *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 with an emphasis in international business 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 with an emphasis in international business is a minimum 66-hour, double-major degree program. In addition to the focus on international business, 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 submit the following materials to the Graduate School:

1. Application for admission to the University,
2. Transcripts from all previous college or university coursework.
3. Official scores from the Graduate Management Admission Test (GMAT).
4. Official scores from the Test of English as a Foreign Language (TOEFL), if English is not the primary language of the applicant
5. Official scores from the Test of Spoken English (TSE), if applicable.

In addition, the student must submit the following documents directly to the Ph.D. Program in Business Administration, College of Business Administration:

1. Application for the doctoral program in business administration,
2. Three letters of recommendation from references who can attest to the applicant's scholarly potential.
3. Copy of official GMAT scores.
4. A brief essay from the applicant describing his or her objectives in pursuing doctoral study
5. A non-refundable check in the amount of \$35 (U.S.) payable to The University of Texas-Pan American to cover costs of application evaluation.

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 15 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 (ECO 6350 or equivalent)
Accounting	minimum three hours at the graduate level (ACC 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	<u>12 hours</u>
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 eight 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 American's Financial Aid 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 182.





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

On the Web: <http://www.utpa.edu/colleges/coe.cfm>



★ GRADUATE ADMISSION REQUIREMENTS OF THE COLLEGE OF EDUCATION

In addition to the general admission requirements set out elsewhere in this catalog, the following specific requirements must be met:

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. Maria Elena Reyes, *Interim 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: vlestradaa@utpa.edu

Graduate Faculty

Curts, Jaime, *Assistant 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, *Assistant Professor*
Reyes, Maria Elena, *Associate Professor*
Ruiz-Escalante, Jose Augustin, *Professor*
Sarmiento-Arribalzag, Matilde, *Assistant Professor*
Schall, Janine, *Assistant Professor*
Tevis, Martha, *Professor*
Yanes, Martha Jeanne, *Assistant 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

In addition to meeting the University's graduate school admission requirements outlined in this catalog, students must meet the bilingual education program admission requirements stated below:

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.
3. The applicant must submit a 250 word essay written in both English and Spanish demonstrating his/her interest in this masters program and goals upon its successful completion.

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	
<i>Select three hours from the following:</i>	
HIST 6306 Studies in Texas and Southwestern History	
HIST 6316 Studies in Mexican and American Heritages	
Resource Area	3 hours
<i>Select three hours from the following:</i>	
EDCI 6302 Multicultural Education	
<i>or</i>	
EDUL 6388 Socio-Cultural Foundations of Education	
Educational Research/Measurement	6 hours
<i>Required:</i>	
EDCI 6310 Research Methods in Education	



Select three hours from the following:

EDCI	6304	Measurement and Evaluation
EPSY	6350	Introduction to Statistics
		<i>or</i>
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 DEGREE 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
		<i>or</i>
EPSY	6367	Introduction to Statistical Methods
PSY 6330		Developmental Psychology

Select three hours from the following:

SOCI	6361	Race and Ethnic Relations
SOCI	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 6-12 hours

Select from the following:

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
EDCI	6326	Science in the Elementary School
EDCI	6328	Mathematics in the Elementary School
READ	6329	Diagnostic Teaching of Reading
EDCI	6305	Educational Curriculum
EDCI	6306	Special Projects



Professional Development	6-12 hours
<i>Select from the following:</i>	
EDCI 6301	Instructional Technology
EDCI 6303	Philosophy of Education
EDCI 6302	Multicultural Education
READ 6308	Foundation of Reading Instruction I
EDBE 6322	Bilingualism/Multiculturalism: Critical Issues and Practices
EDCI 6305	Educational Curriculum
EDCI 6304	Measurement and Evaluation
EPSY 6350	Introduction to Statistics
EDEC 6390	Internship Early Childhood
EDEC 6380	The Young Child in a Multicultural Society
EDEC 6382	Emergent Literacy Development

Resource Areas	6-9 hours
<i>Select from the following:</i>	
EDCI 6307	Research, Issues and Trends in Education
EDCI 6306	Special Projects
EDCI 6308	Practicum for Teachers
Three to six hours of approved graduate courses may be taken as resource area courses.	

Educational Research/Measurement	6 hours
EDCI 6310	Research Methods in Education
EDCI 6304	Measurement and Evaluation
<i>or</i>	
EPSY 6370	Educational and Psychological Measurement

TOTAL 36 hours

◆ *Option Two:* Thesis
Certificate: Non-Certification

Content Courses	6-12 hours
<i>Select from the following:</i>	
READ 6308	Foundations of Reading Instruction I
READ 6309	Foundations of Reading Instruction II
READ 6323	Problems in the Teaching of Reading
READ 6325	Practicum in Reading Instruction
EDCI 6326	Science in the Elementary School
EDCI 6328	Mathematics in the Elementary School
READ 6329	Diagnostic Teaching of Reading
EDCI 6305	Educational Curriculum

Professional Development	6-12 hours
<i>Select from the following:</i>	
EDCI 6301	Instructional Technology
EDCI 6302	Multicultural Education
EDCI 6303	Philosophy of Education
EDCI 6306	Special Projects
EDCI 6307	Research, Issues and Trends in Education
READ 6308	Foundations of Reading Instruction I
EDBE 6322	Bilingualism/Multiculturalism: Critical Issues and Practices
EDCI 6304	Measurement and Evaluation
<i>or</i>	
EPSY 6350	Introduction to Statistics
EDCI 6308	Practicum for Teachers
The student may substitute three to six hours from any approved graduate-level courses.	

Thesis	6 hours
ED 7300	Thesis
7301	Thesis

Educational Research/Measurement	6 hours
EDCI 6310	Research Methods in Education
EDCI 6304	Measurement and Evaluation
<i>or</i>	
EPSY 6370	Educational and Psychological Measurement

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 advisor of the department: art, biology, English, political science, health and kinesiology, history, mathematics, science (SCIE prefix), Spanish, French, music, physics, theatre.

Professional Development	6-12 hours
EDCI 6301	Instructional Technology
EDCI 6303	Philosophy of Education
<i>or</i>	
EDCI 6302	Multicultural Education
READ 6308	Foundations of Reading Instruction I
EDBE 6322	Bilingualism/Multiculturalism: Critical Issues and Practices
EDCI 6305	Educational Curriculum
EDCI 6304	Measurement and Evaluation
EDCI 6308	Practicum for Teachers



Resource Areas		6-12 hours
READ	6308	Foundations of Reading Instruction I
READ	6323	Problems in the Teaching of Reading
READ	6325	Practicum in Reading Instruction
EDCI	6326	Science in the Elementary School Curriculum
EDCI	6328	Mathematics in the Elementary School Curriculum
READ	6329	Diagnostic Teaching of Reading
EDCI	6305	Educational Curriculum
EDCI	6306	Special Projects
EDCI	6307	Research, Issues and Trends in Education

Three to six hours from any approved graduate-level courses may be taken as resource area courses.

Educational Research/Measurement		6-12 hours
EDCI	6310	Research Methods in Education <i>(Required)</i>
EDCI	6304	Measurement and Evaluation <i>or</i>
EPSY	6370	Educational and Psychological Measurement <i>(EDCI 6304 or EDCI 6370 is required.)</i>
EDCI	6306	Special Projects
EDCI	6307	Research, Issues and Trends in Education
EDCI	6308	Practicum for Teachers

TOTAL 36 hours

★ MASTER OF EDUCATION DEGREE IN READING

The purpose of the Master of Education in reading degree 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; and
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 24 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:* Non-Thesis
- Certificate:* All-Level Reading Certificate

Reading Area		18 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 Reading to the Secondary Student

Resource Area		Six hours of approved graduate courses may be taken as resource area courses or six hours of thesis may be taken.
EDBE	6350	Bilingual Reading Process
EDBE	6351	Research on Language Development in Bilingual Environments
ENG	6325	Composition Techniques



Professional Development	6 hours
EDCI 6305 Educational Curriculum	
EDCI 6310 Research Methods in Education	
TOTAL	36 hours

**★ MASTER OF EDUCATION DEGREE
IN SECONDARY EDUCATION**

- ◆ *Option One:* Non-Thesis
Certificate: Non-Certification

Specialization Area 12-15 hours
Twelve to 15 hours of graduate-level courses in one or two of the following fields after consultation with the graduate advisor in the department: art, biology, chemistry, communication, English, political science, kinesiology, history, mathematics, psychology, physics, science (SCIE prefix), sociology, Spanish, communication, theatre, French and music.

Educational Research/Measurement	9 hours
EDCI 6310 Research Methods in Education	
EDCI 6302 Multicultural Education	
<i>or</i>	
EDCI 6303 Philosophy of Education	
EDCI 6304 Measurement and Evaluation	

Professional Development	12 hours
<i>Required:</i>	
EDCI 6301 Instructional Technology	
EDCI 6305 Educational Curriculum	
EDCI 6308 Practicum for Teachers	
<i>Select three hours from:</i>	
EDCI 6306 Special Projects	
EDCI 6307 Research, Issues and Trends in Education	

Resource Area 3-6 hours
Three 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 advisor.

TOTAL	39 hours
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- ◆ *Option Two:* Non-Thesis
Certificate: Non-Certification

Specialization Area 12 hours
Select 12 hours of graduate-level courses in consultation with the graduate advisor in the department

from one or two of the following fields: art, biology, chemistry, communication, English, kinesiology, history, mathematics, political science, psychology, physics, science (SCIE prefix), sociology, Spanish, theatre, music and French.

Educational Research/Measurement	9 hours
EDCI 6310 Research Methods in Education	
EDCI 6302 Multicultural Education	
<i>or</i>	
EDCI 6303 Philosophy of Education	
EDCI 6304 Measurement and Evaluation	

Professional Development	12 hours
<i>Required:</i>	
EDCI 6301 Instructional Technology	
EDCI 6305 Educational Curriculum	
EDCI 6308 Practicum for Teachers	
<i>Select three hours from:</i>	
EDCI 6306 Special Projects	
EDCI 6307 Research, Issues and Trends in Education	

Resource Area 6 hours
Six hours from any graduate-level courses that provide background for the specialization area, or courses, also in the specialization area, chosen to extend the applicant's preparation with consent of graduate advisor.

TOTAL	39 hours
--------------	-----------------

- ◆ *Option Three:* Thesis
Certificate: Non-Certification

Specialization Area 12 hours
Select 12 hours of graduate-level courses in consultation with the graduate advisor in the department from one or two of the following fields: art, biology, chemistry, communication, 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	
<i>or</i>	
EDCI 6303 Philosophy of Education	
EDCI 6304 Measurement and Evaluation	

Professional Development	12 hours
<i>Required:</i>	
EDCI 6301 Instructional Technology	
EDCI 6305 Educational Curriculum	
EDCI 6308 Practicum for Teachers	



Select three hours from the following:

EDCI	6306	Special Projects
EDCI	6307	Research, Issues and Trends in Education

Thesis			6 hours
ED	7300	Thesis	
	7301	Thesis	
TOTAL			39 hours

Kranz, Peter, *Associate Professor*
 Lowdermilk, John, *Assistant Professor*
 Mitchell, Jo Ann, *Professor*
 Ochoa, Salvador Hector, *Professor*
 Poelzer, Harold, *Associate Professor*
 Ramirez, Sylvia, *Associate Professor*
 Saenz, Laura, *Assistant Professor*
 Silva, Santiago, *Assistant Professor*
 Sparrow, Scott, *Assistant Professor*

★ 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 182.



EDUCATIONAL PSYCHOLOGY

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Graduate Advisors

Dr. Yvonne Castillo, *Guidance and Counseling*
 Dr. Sylvia Ramirez, *School Psychology*
 Dr. Cheryl Fielding, *Educational Diagnostician*
 Dr. Peter Kranz, *Guidance and Counseling*
 Dr. John Lowdermilk, *Special Education*
 Dr. Harold Poelzer, *Gifted Education*
 Dr. Santiago Silva, *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*
 Johnson, Michael, *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; and

9. to develop state of the art facilities, resources and technology for local and distance education.

★ MASTER OF EDUCATION DEGREE IN GUIDANCE AND COUNSELING

☆ MISSION

The mission of the Guidance and Counseling program is to prepare a highly competent professional who can respond to the life span mental health needs of a multicultural community. 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 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.

☆ 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.

Foundation Courses

EPSY 6358 Introduction to Research

EPSY 6350 Introduction to Statistics

or

EPSY 6370 Educational Measurement*

* *Recommended.*

Required Sequence Courses

EPSY 6361 Organization & Management of Guidance & Counseling Programs

EPSY 6362 Personal/Social Development of the Counselor

EPSY 6363 Counseling Theories

EPSY 6364 Methods & Techniques

EPSY 6365 Group Counseling

Other Core Courses

EPSY 6366 Career Development

EPSY 6367 Assessment in Counseling Methods and Techniques*

EPSY 6390 Human Growth & 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 7352 Psychotherapy for Children (will include gifted information)
or
- EPSY 6315 Strategies, Curricula & Material for Teaching the Seriously Emotionally Disturbed
or
- EPSY 6333 Counseling the Gifted and Talented

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
 - EPSY 6101
 - EPSY 6102 Seminar in Counseling and Guidance (repeat three times)
or
 - PSY 6305 Advanced Studies in Psychopathology

Total Licensure Plan

57 hours

★ REQUIREMENTS FOR ADMISSION TO THE SCHOOL COUNSELING PROGRAM

Admission to Counselor Education

- A. A student is required to be admitted to the University for graduate studies with a "clear" admission. (See page 16 for admission requirements for graduate study.) 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.

- C. The student is required to submit an application for admission prior to enrolling in any guidance and counseling courses.

NOTE: A student must make 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 the oral and written comprehensive examination (to be taken during enrollment in EPSY 6364 and EPSY 6368, respectively, in the guidance and counseling program).
3. Student Growth Evaluation may be required.

★ 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 coordinatitng 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 are required to apply and be admitted to The University of Texas-Pan American Graduate School.

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 an application packet to the Educational Psychology Department that includes 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	6307	Legal Foundations of Special Education
EPSY	6370	Educational and Psychological Measurement
EPSY	6380	Introduction to Cognitive

		and Academic Assessment
EPSY	6358	Introduction to Research
EPSY	6303	Learning Disabilities
EPSY	6320	Consultation and Collaboration with Parents, Professionals and Agencies
EPSY	6381	Advanced Cognitive and Academic Assessment
EPSY	6316	Literacy for Elementary Students with Mild Disabilities
EPSY	6322	Advanced Educational Psychology and Principles of Learning
EPSY	6382	Bilingual and Multicultural Assessment
EPSY	6300	Advanced Individual Differences
EPSY	6304	Culturally and Linguistically Diverse Exceptional Learner I: Problems, Trends and Issues
EPSY	7302	Practicum for Educational Diagnosticians
EPSY	6385	Autism Spectrum: Assessment and Program Planning
		<i>or</i>
EPSY	6302	Psychology of Mental Retardation
EPSY	6311	Applied Behavioral and Cognitive Therapies

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; and
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, and
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 addition to the University's graduate admission requirements, the Gifted Education Program's admission requirements are as follows: The applicant must:

1. submit official transcript(s) of all prior undergraduate and graduate work, an official score report on the Graduate Record Examination (GRE), and completed application forms to the Office of Admissions and Records by the dates indicated in the University Graduate Catalog;
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 average or more on a 4.0 scale in the last 60 semester hours or 90 quarter hours completed;

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; and
6. hold a valid teaching certificate and have taught in a public or private school setting for a minimum of two years.

☆ 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 advisor.

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	N/A	6	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	6358	Introduction to Research	



EP SY 6350 Introduction to Statistics
** Courses required for an endorsement in gifted education (TEA).*

Designated Elective Courses 6 hours or 12 hours

EP SY 6322	Advanced Educational Psychology and Principles of Learning	
ED 6311	Advanced Child Psychology	
EP SY 6338	Atypical Gifted Children	
EP SY 6340	Critical and Creative Thinking for Gifted Students	
EP SY 6341	Gifted Students in the Visual and Performing Arts	
EP SY 6342	Seminar in Gifted Education	
EP SY 6344	Gifted Child in the Regular Classroom	
EP SY 6346	Independent Study	
EP SY 6350	Introduction to Statistics	
EP SY 6351	Intermediate Statistics	
EP SY 6354	Program Evaluation	
EP SY 6370	Educational and Psychological Measurement	

Thesis and Non-Thesis Options 6 hours

- Thesis

ED 7300	Thesis	
ED 7301	Thesis	

- Non-Thesis

EP SY 7602	Applied Research Project	6 hours
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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. Certification as Psychological Associate by the Texas State Board of Examiners of Psychologists.
2. Licensed Specialist School Psychologist (LSSP) by the Texas State Board of Examiners of Psychologists.
3. 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 addition to the University's graduate admission requirements outlined beginning on page 16, students must meet the School Psychology Program admission requirements as shown below.

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 Graduate Record Examination (GRE) scores.
3. The applicant must submit at least three letters of recommendation from persons in a position to judge the professional and academic potential of the candidate.
4. The applicant must submit a letter of application with a statement of reasons for pursuing a master's degree in school psychology to the coordinator for the school psychology program.

◆ Degree Requirements

The degree of Master of Arts in school psychology provides 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	9
Designated Electives	60
Free Electives	0
Thesis	N/A
Applied Research Project	0
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

Psychology Core Courses 9 hours minimum

Required:

- PSY 6320 Current Perspectives in Physiological Psychology
- PSY 6325 Theoretical Issues in Learning
or
- EPSY 6322 Advanced Educational Psychology and Principles of Learning
- PSY 6330 Advanced Studies in Child Development

Measurement 3 hours minimum

Required:

- EPSY 6370 Educational and Psychological Measurement

Research Design 3 hours minimum

- EPSY 6358 Introduction to Research

Statistics 3 hours minimum

Required:

- EPSY 6350 Introduction to Statistics

Psychological Assessment 12 hours minimum

Required:

- EPSY 6380 Introduction to Cognitive and Achievement Assessment
- EPSY 6381 Advanced Cognitive and Achievement Assessment
- EPSY 6382 Bilingual Assessment
- EPSY 6383 Personality Assessment of Childhood

Individual Differences 7 hours minimum

Required:

- EPSY 6300 Advanced Individual Differences
- EPSY 6301 Psychopathology of Childhood
- EPSY 6315 Emotional Disturbance, Strategies, Curricula and Materials

Social/Cultural Foundations 9 hours minimum

Select from the following as needed:

- EDUL 6384 Educational Administration
or
- SOCI 6350 Advanced Sociology of Education
- EPSY 6304 Culturally and Linguistically Diverse Exceptional Learner II
- EPSY 6389 Culturally and Diverse Exceptional Learner II

Intervention 15 hours minimum

Required:

- EPSY 6310 Ethical and Legal Issues in the Role of the School Psychologist
- EPSY 6311 Applied Behavioral and Cognitive Therapies
- EPSY 6312 Consultation
- EPSY 7352 Psychotherapy for Children
- EPSY 6316 Literacy for Elementary Students with Mild Disabilities

Internship 6 hours minimum

Required:

- EPSY 7350 Internship I
- EPSY 7351 Internship II

★ MASTER OF EDUCATION DEGREE IN SPECIAL EDUCATION

The Master's of Education degree in special education is a 39-hour program. This program has three tracks: (a) low-incidence, (b) high-incidence, or (c) principalship. The choice of courses, as well as the nature of the supporting work, will be determined through consultation between the student and the student's faculty advisor.

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.

The principalship track is for students interested in pursuing careers as an assistant principal, principal or director of special education. Principalship has additional requirements of one year of internship following course completion and one course during each internship semester. A faculty advisor from the Education Leadership Department determines the specific coursework beyond the 39 hours as well as testing and internship requirements.



★ REQUIREMENTS FOR ADMISSION

In addition to the University's graduate study requirements for admission, the Graduate Special Education Program's admissions requirements are based on the following criteria:

1. Must be accepted by UTPA Office of Graduate Admissions.
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.
4. Must successfully complete an interview with the Graduate Coordinator of Special Education.
5. Must submit the following information to the Educational Psychology Department:
 - a. official transcript(s) of all prior work;
 - b. completed application form; and
 - c. 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	6358	Introduction to Research
EPSY	6370	Educational and Psychological Measurement
EPSY	6356	Research Methods in Single-Subject Design
EPSY	6307	Special Education Law
EPSY	6316	Literacy for Elementary Students with Mild Disabilities
EPSY	6311	Applied Behavioral Analysis and Cognitive Therapies
EPSY	6304	Culturally and Linguistically Diverse Exceptional Learner I: Problems, Trends and Issues
EPSY	6389	Culturally and Linguistically Diverse Exceptional Learner II: Characteristics
EPSY	6318	Instructional Technology and Adaptive Assistive Devices for the Exceptional Individual

Students choose one of the three tracks below and take all of the courses listed under the track they choose.

High-Incidence Track		12 hours
EPSY	6320	Consultation and Collaboration with Parents, Professionals and Agencies
EPSY	6302	Psychology of Mental Retardation
EPSY	6303	Learning Disabilities
EPSY	6315	Emotional Disturbances: Strategies, Curricula and Materials
Low-Incidence Track		12 hours
EPSY	6385	Autism Spectrum: Assessment and Program Planning
EPSY	6305	Medical Aspects of Disabilities
EPSY	6320	Current Perspectives in Physiological Psychology
EPSY	6314	Severe and Profound Disabilities: Strategies, Curricula and Materials
Principalship		12 hours**
EDUC	6389	Introduction to Administration
EDUC	6333	Curriculum for Elementary and Secondary
EDUC	6385	School Law
EDUC	6389	School Business Services

***Note that additional courses may be required and that a yearlong internship is required. Students receive their degree after completing the 39 hours. However, to qualify to take the Texas State Principalship Certification there are additional requirements as stated above. ***

Total hours 39 hours





KINESIOLOGY

Dr. Donna M. Dugas, *Department Chair*
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 Telephone: 956/381-3501
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 E-mail: dugasd@utpa.edu
 Web: <http://www.utpa.edu/dept/kinesiology>

Graduate Faculty

Dugas, Donna, *Associate Professor, Kinesiology*
 Guinn, Robert, *Professor, Health*
 Jorgensen, Layne, *Professor, Kinesiology*
 Mottinger, Sue, *Associate Professor, Kinesiology*
 Myers, Debra, *Assistant Professor, Kinesiology*
 Semper, Louis T., *Associate Professor, Kinesiology*
 Shackelford, Dana, *Assistant Professor, Dance*
 Villas, Paul, *Professor, Health*

★ GRADUATE PROGRAM

The Department of Health and Kinesiology offers a Master of Science degree with a major in kinesiology. You can take courses in the traditional face-to-face [F2F] classroom at UTPA or you can select UTPA as your Home Campus for the online M.S. degree in kinesiology. Students must complete an oral examination following the completion of 12 hours of graduate work and pass a comprehensive written examination at the end of the program. 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 advisor, 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.utpa.edu, contact Dr. Layne Jorgensen at lj85f@utpa.edu for the traditional program or Dr. Sue Mottinger at mott@utpa.edu for the online program.

The Department of Health and Kinesiology supersedes the University's entrance requirements for graduate student admission and requires a GPA of 3.0 or higher on the last sixty hours of 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 do 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).
3. submitting three letters of recommendation, and
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) M.S. 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.

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)



Kinesiology Electives 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	6330	Issues in Adapted Physical Activity
KIN	6331	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	7300	Thesis
KIN	7301	Thesis

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.

TOTAL 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 degree 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.

★ 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 225.

Required Online Courses 12 hours
 See descriptions listed earlier in this section.

Online Elective Courses: (24 hours required) 24 hours
 With graduate faculty advisor approval, 24 hours of electives and/or interest areas may be selected from the online courses. If you plan to take both online and traditional delivery courses you must still have graduate faculty advisor 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 36 Hours

Thesis Option

A thesis option provides the opportunity to conduct original research in an interest area pertaining to sport and/or kinesiology. A student selecting this option must complete 30 hours of coursework and six hours of thesis credit.



★ GRADUATE ONLINE ADVISOR

Please consult with the graduate online faculty advisor 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.

★ COURSE DESCRIPTIONS

A listing of the online graduate courses offered by the UT System Telecampus is available at <http://www.telecampus.utsystem.edu>.

<http://www.telecampus.utsystem.edu>



EDUCATIONAL LEADERSHIP

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E-mail: menchaca@utpa.edu

Graduate Faculty

Arispe y Acevedo, Baltazar, *Professor*
De los Santos, Miguel, *Associate Professor*
Guajardo, Francisco, *Assistant 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, *Lecturer*
Salinas, Alejo, *Lecturer*
Sauceda, Noe, *Assistant Professor*
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 educational leadership, a Principal's Credential Program, a Superintendent's Credential Program and an Alternative Principal Credential Program for the Probationary Principal Certificate.

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. A maximum of six hours may be taken prior to formal admission to the Department of Educational Leadership. Admissions will be done on specific dates each semester rather than at any time a file is completed. The faculty will act as an admission's committee, reviewing each applicant's file.

★ MASTER'S DEGREE AND CREDENTIAL PROGRAMS

★ ADMISSION REQUIREMENTS

1. Master's Degree Program in Educational Leadership
Students holding a bachelor's degree must complete an application form available at the department office (EDCC 1.514). The application and the following items must be returned to the department office.
 - A graduate school admission letter (clear or probationary) obtained from the Admissions Office.
 - A letter of intent addressed to the Admissions Committee, Department of Educational Leadership, clearly expressing why the student is interested in becoming a principal (or whatever the professional goal for this degree may be).
 - A resumé/vita that would specifically include any leadership experience the student has had at school; work; in the community, or here at the University.
 - Submit an official copy of their teaching service record showing at least two years of classroom teaching experience, or related experience.
 - Two completed Performance Evaluation Checklists, one from each of two supervisors, signed and sent to the Admissions Committee. Two copies of this form are attached to the application form.
 - Clear admission letter from the Graduate School.
 - A writing exercise to be completed on campus is required. The writing exercise consists of responding without the aid of materials to a question derived from

the field of education. The student will have one hour to address the question.

- Official transcripts of all undergraduate and graduate coursework must be sent directly to the Admissions Committee, Department of Educational Leadership, Education Building, Room 1.514.

2. Principal Credential Program for students with a master's in educational leadership or related discipline.

Students who have completed their master's degree in educational leadership or a related education discipline and want to pursue a principal's credential must apply to the department for admission to the principal's credential program.

In order to be considered for admission the student must submit the following:

- Complete the principal's credential program application from the department office.
- Request that an official copy of the student's transcript (showing the award of a master's degree) be sent directly to the department.
- A photocopy of the student's current teacher certificate.
- ExCET/TEXES scores for each area of teacher certification the student now holds.
- Submit an official copy of their teaching service record showing at least two years of classroom teaching experience.
- The student will submit three to five artifacts of demonstrated leadership during the previous two years.

3. Superintendent Credential Program for students who have completed a principal credential program.

Students who have their principal credential and want to pursue a superintendent's credential must apply to the department for admission into the superintendent's credential program.

In order to be considered for admission, the student must submit the following:

- Admissions application.
- Clear admissions letter from the UTPA Graduate Office (letter).
- Curriculum Vita/Resumé.
- Official academic graduate transcript (Graduate GPA 3.5 or above).
- Copy of their Texas Principal Credential.
- Statement on leadership and career aspirations (two to four pages between 500-1000 words).
- Two years of successful administrative experience (Teacher Service Record).
- Two letters of recommendation (at least one from the superintendent or assistant superintendant) to be mailed to the Educational Leadership Department.

4. Alternative Principal Credential (APC) Program (Probationary Principal Certificate)



Students who hold a master's degree in education or a related discipline may qualify for the APC program. Students may contact the Department of Educational Leadership for further details.

In order to be considered for admission, the student must have the following prerequisites:

- Master's degree in education or a related discipline.
- Service record of two or more years of creditable teaching experience.
- Service in a supervised internship (candidate must be offered full-time administrative employment by LEA).
- Students will have one year to complete all program requirements which include successful internship, required course completion and passing of the TExES Principal exam before being recommended for the Standard Principal Certificate. Program interns can renew their probationary certificate for an additional two years upon the approval of the program advisor.

Admission Documents are to be mailed to:

Dr. Velma Menchaca, *Department Chair*
Department of Educational Leadership
The University of Texas-Pan American
College of Education, Room 1.514
1201 W. University Drive
Edinburg, TX 78539-2999

★ 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 6384	Introduction to Educational Administration
EDUL 6369	Administrative Technology in Schools
EDUL 6388	Sociocultural Foundations of Education
EDUL 6333	Elementary and Secondary Curriculum
EDUL 6334	Curriculum Development — Problems and Processes
EDUL 6300	Introduction to Research and Evaluation
EDUL 6367	Introduction to Statistical Methods and Data-Driven Decision-Making
EDUL 6337	Administration of Special Instructional Programs
EDUL 6385	Public School Law
EDUL 6389	Administration of School Business Services
EDUL 6386	Administration of Pupil Personnel Services
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 an additional 12 hours (two three credit hour courses and a six credit hour two-consecutive-semester internship). After the course and internship requirements are completed, the student must pass the state principal credential exam (TExES).

EDUL 6338	The School Principal
EDUL 6393	Administration of School Staff Personnel
EDUL 6398	Internship in Principalship
EDUL 6399	Internship in Principalship

◆ Superintendent Credential Program

The Principal's Credential is required for entrance to the superintendent credential program. The student must then complete the 18 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 18 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
*EDUL 7320	Internship for the Superintendency

★ UTPA ALTERNATIVE PRINCIPAL CREDENTIAL (APC) PROGRAM (PROBATIONARY PRINCIPAL CERTIFICATE)

◆ Program Sequence

- Step 1:* Complete Master's Degree in educational leadership or a related discipline.
- Step 2:* Take the TExES benchmark test and earn a 70 percent or higher.
- Step 3:* Apply for acceptance into the Alternative Principal Credential program at UTPA.
- Step 4:* Once accepted into the program, candidates will receive a letter of eligibility from the program.
- Step 5:* Once hired, candidates will inform the program coordinator of the internship site and the coordinator will assign a program supervisor.
- Step 6:* Candidates shall be required to complete the required curriculum within a calendar year (internship fees of \$3000 will be due at this time). The curriculum will consist of EDUL 6393 Staff Personnel and EDUL 6338 The School Principalship and may include up to 12 additional hours from the core. The number of core hours will depend on the candidate's performance on the TExEs benchmark exam and the assessment of student background and experiences.

Step 7: Candidates must apply to SBEC for their probationary Principal Certificate immediately upon hire and program staff will recommend candidates for certification to SBEC if the student is in good standing with the program and all requirements have been met.

Step 8: Once interns score an 80 or better on the TExES benchmark exam, they can begin taking the TExES Principal Exam. They must pass the TExES Principal exam within the first year in order to complete the program. Interns unable to pass the exam within the first year, must enroll in another year of an internship before the program recommends a renewal of the probationary certificate for a subsequent year. Second year internship fees will be \$1500.

★ 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 204.

★ 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 the improvement of 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; and

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

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, and

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.

To be considered for admission, the student will file an admissions packet in the Educational Leadership Doctoral Program (ELDP) office consisting of the doctoral admissions application, GRE scores, 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.

★ DEGREE REQUIREMENTS

A minimum of 63 semester hours of post-master's 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 student's 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 advisor 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 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.

★ 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 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:

Director, Educational Leadership Doctoral Program
College of Education
The University of Texas-Pan American
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 204.



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 and Texas.

★ 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)
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E-mail: bjreed@utpa.edu
On the Web: <http://www.utpa.edu/colleges/cohshs.cfm>

Karen Chandler, *Assistant Dean*
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Dr. Amy Schwartz, *Assistant Dean*
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COOPERATIVE PHARMACY PROGRAM

Dr. Amy Schwartz, *Program Director*
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E-mail: aschwartz@utpa.edu

Graduate Faculty
Canales, Patricia L., *Associate Professor*
Ramirez, Isidro, *Assistant Professor*
Tasnif, Yasar, *Assistant Professor*

★ 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 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 physician assistant studies, and a Bachelor of Social Work degree. The 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 and immunizations. Students are advised that a policy requiring criminal background checks on students admitted into programs in the College of Health Sciences and Human Services is currently under review. For specific information on these requirements, please see the major department or the advisement center.

The faculty provide academic advisement and assistance to students pursuing careers in health and the social and human services. 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.

★ 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 (PharmD) 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 high school students, and a transitional pathway for students enrolled as pre-pharmacy majors at UTPA. Students admitted into the CPP will have conditional admission to the 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 at UTPA. The CPP academic advisor and faculty members are available to assist students with the application process to the UT Austin College of Pharmacy.

★ 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 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 3 and 4 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 5 and 6 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	
		<i>or</i>	
BIOL	1487	Honors Biology	
BIOL	1402	General Biology	
		<i>or</i>	
BIOL	1488	Honors Biology	
BIOL	3401	Microbiology	
BIOL	3413	Genetics	
CHEM	1301	General Chemistry I	
		<i>and</i>	
CHEM	1101	General Chemistry Lab I	
CHEM	1302	General Chemistry II	
		<i>and</i>	
CHEM	1102	General Chemistry Lab II	
CHEM	2302	Organic I	
		<i>and</i>	
CHEM	2102	Lab	
CHEM	2303	Organic II	
		<i>and</i>	
CHEM	2103	Lab	
PHYS	1401	General	



Mathematics 7 hours

MATH	1460	Calculus I <i>or</i>
MATH	1487	Honors Calculus I
MATH	2330	Survey of Elementary Statistics <i>or</i>
MATH	3337	Applied Statistics I

English 9 hours

ENG	1301	Composition <i>or</i>
ENG	1387	Honors Rhetoric and Composition
ENG	1302	Rhetoric <i>or</i>
ENG	1388	Honors Rhetoric and Literature
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 <i>or</i>
ENG	2388	Honors Readings in World Literature

Political Sciences 6 hours

POLS	2313	United States and Texas Government and Politics <i>or</i>
POLS	2387	Honors United States and Texas Government and Politics
POLS	2314	United States and Texas

		Government and Politics <i>or</i>
POLS	2388	Honors United States and Texas Government and Politics

History 6 hours

HIST	2313	American Heritage I <i>or</i>
HIST	2387	Honors American Heritage I
HIST	2314	American Heritage II <i>or</i>
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. Additional CPP requirements will be discussed with the student 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, *Interim Department Chair*
Health Sciences and Human Services West (HSHW)

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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 degree 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 SpeechLanguage-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 annd 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 are required to:

1. Submit all application materials required by the Office of Graduate Studies prior to published deadlines. The admission status that is assigned by the graduate school determines whether the applicant is eligible to be considered for graduate admission in the program. Admission requires completion of dual application to the graduate school and to the Department of Communication Sciences and Disorders. Admittance will only be made to the department with clear admission status from the graduate school. The application deadline is Feb. 1.
2. Submit all required applicable materials to the department's graduate admissions committee. Current requirements can be obtained at <http://www.panam.edu/dept/commdisorder/> Undergraduates with the bachelor's 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 4310 Behavior Management
- COMD 4330 Aural Rehabilitation
- COMD 4360 Language Disorders in Children
- COMD 4390 Principles of Assessment

★ DEGREE REQUIREMENTS

Required Academic Coursework	39 Hours
Non-thesis Required Clinical Practicum	11 Hours
Thesis Total Hours Required	50 hours

- COMD 6105 Clinical Practicum
(four registrations:
Fall, Spring, SSI, SSII)
- COMD 6180 Audiology Practicum
(one registration)
- 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

Full-time students must take COMD 6105 (Clinical Practicum) each fall, spring, summer I and summer II during the first year. 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 190.



NURSING

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Graduate Faculty
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 Guzman, Penny, *Clinical Specialist*
 Huerta, Carolina, *Professor*
 Maville, Janice A., *Professor*
 Otto, Debra, *Assistant Professor*
 Rodriguez, Melinda, *Lecturer*
 Wilson, Bruce K., *Professor*

★ GENERAL OVERVIEW

The Department of Nursing offers courses leading to the Master of Science in Nursing. Clinical specializations in adult health, family nurse practitioner, or pediatric nurse practitioner with functional roles as clinical nurse specialist, administrator, 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

Application deadlines are July 1 for fall admission, October 1 for spring admission and April 1 for summer admission.

The Department of Nursing has admission requirements that are in addition to the University requirements.

★ 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
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.

☆ PROBATIONARY ADMISSION

An applicant with a bachelor's degree from an accredited institution may be granted probationary 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 probationary 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 on probation 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 probationary student's graduate GPA is 3.0 or better with no grade less than a "B," the student's admission classification will be changed to clear.

☆ 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-master's 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.
2. Submitting a letter of application to the Department of Nursing.
3. Submitting official transcripts to the Office of 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 that courses completed while under the non-degree status be credited toward the degree. A maximum of nine hours, with grades of "B" or better, may be proposed toward the master's degree in nursing.

★ TRANSFER ADMISSION

Transfer admission will follow university guidelines. A maximum of 12 graduate hours may be accepted following review by the MSN Student Development Committee.

★ 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 master's 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

◆ Administrator

NURS 6345 Administrator I
 NURS 6346 Administrator 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

■ MSN CURRICULUM FOR PEDIATRIC 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 6614 Advanced Practice: Pediatric Nurse Practitioner I
 NURS 6615 Advanced Practice: Pediatric 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

★ 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 241.



OCCUPATIONAL THERAPY PROGRAM

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Hadlock, Tana, *Lecturer*

Pfeifer, Teresa, *Assistant Professor*

Schultz, Celia, *Assistant Professor*

Scoggin, Angela, *Professor*

Shelton, Margarette, *Assistant Professor*

Wells, Shirley, *Assistant 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 life long 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 one's 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.

One's perceptions of health, illness and occupation are shaped by culture. Adaptation is fundamental to a culture's survival and adaptation through occupation is fundamental to an individual's 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 one's life following the transition. Thus, the individual's 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, MJ: 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**

In order to be admitted to the master's program in occupational therapy, prospective candidates must first meet all requirements for admission to the graduate school at UT Pan American. *This includes:* separate official transcripts from each college and/or university attended and a completed application form for graduate admission. Application for admission to the University must be made to:

Office of Graduate Studies
Administration Building, Room 116
The University of Texas-Pan American
1201 W. University Drive
Edinburg, TX 78539-2999

- 1. 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.
- 2. For "clear" admission to the Master of Science in Occupational Therapy (MSOT) 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 probationary admission. Students admitted under probationary 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. After being accepted for admission to graduate school, students may apply for the Master of Science in Occupational Therapy Program. The deadline for fall admission is May 31.

In addition to the requirements for admission to graduate study, the following must be accomplished for admission to the Master of Science in Occupational Therapy Program:

- 1. *Submit:*
 - a) An official transcript of all college and university work.
 - b) A completed application form.
- 2. Submit a double-spaced, two-page, typed essay of approximately 1,000 words describing your interest in a master's degree in occupational therapy.
- 3. Submit three letters of academic/professional, non-related, reference from persons who can evaluate ability and potential for graduate education and professional practice.
- 4. Participation in a personal interview with the Occupational Therapy Program's Admission Committee may be required.
- 5. Completion of Health Occupations Aptitude Examination.
- 6. Students must show evidence of satisfactory completion of the following courses:

Anatomy and Physiology	(eight credit hours)
Basic Statistics	(three credit hours)
Psychology of Lifespan	(three credit hours)
Abnormal Psychology	(three credit hours)
Medical Terminology	
These courses must be completed by May 31.	

All materials must be sent to:

Master of Science in Occupational Therapy Program
College of Health Sciences and Human Services
The University of Texas-Pan American
1201 W. University Drive
Edinburg, TX 78539-2999

At the time of publication of this catalog, the MSOT program is an evening/weekend program. However, beginning with the class entering in fall 2008, the program will be a full-time day program. Please call the program office periodically or consult the Web site to stay abreast of changes.



★ DEGREE REQUIREMENTS

The master's in occupational therapy is a 71-semester hour program, as follows:

◆ Fall (Semester I)			
OCCT	6301	Human Occupation I	3
OCCT	6302	Foundations of Occupational Therapy	3
OCCT	6303	Research Methods in Occupational Therapy	3
OCCT	6305	Human Occupation II	3
Total SCH			12
◆ Spring (Semester II)			
OCCT	6306	Human Occupation III	3
OCCT	6307	Research and Policy in Health Care	3
OCCT	6310	Theories of Occupational Therapy	3
OCCT	6304	Systems Impacting Occupational Performance	3
Total SCH			12
◆ Summer I (Semester III)			
OCCT	6309	Health, Illness and Disability	3
OCCT	6308	Practicum A	3
Total SCH			6
◆ Summer II (Semester IV)			
OCCT	6312	Systems Analysis	3
OCCT	6311	Practicum B	3
Total SCH			6
◆ Fall (Semester V)			
OCCT	7401	Systems Intervention I	4
OCCT	7301	Occupational Therapy Skills	3
OCCT	6313	Special Topics in Occupational Therapy	3
Total SCH			10
◆ Spring (Semester VI)			
OCCT	7402	Systems Intervention II	4
OCCT	7303	Advanced Applied Research	3
OCCT	7304	Practicum C	3
OCCT	7302	Management of Occupational Therapy Services	3
Total SCH			13

◆ Summer (Semester VII)			
OCCT	7601	Field Studies in Occupational Therapy I	6
Total SCH			6
◆ Fall (Semester VIII)			
OCCT	7602	Field Studies in Occupational Therapy II	6
Total SCH			6
TOTAL GRADUATE SCH			71

☆ REQUIRED INTERNSHIP EXPERIENCE

A minimum of the equivalent of 24 weeks full-time internship is required by The Accreditation Council of Occupational Therapy Education (ACOTE) upon completion of all academic coursework (OCCT 7601 and OCCT 7602). This may be completed on a full-time or part-time basis, but may not be less than half time. The goal of the internship is to develop competent, entry-level practitioners. The internship experience is under the direct supervision of a Registered Occupational Therapist (OTR®).

☆ CERTIFICATION EXAMINATION AND LICENSURE

Upon completion of all academic and internship experience, the student is required to take the certification examination as developed by the National Board for Certification in Occupational Therapy, Inc. (NBCOT). The address for this agency is 800 S. Frederick Ave., Suite 200, Gaithersburg, MD, 20877-4150, or call 301/990-7979. On successful completion of this examination, the student is designated as a Registered Occupational Therapist (OTR®). In addition, The Texas Board of Occupational Therapy Examiners has been designated by the Texas Legislature as the licensing body for occupational therapists in Texas.

☆ ACCREDITATION

The program in occupational therapy at The University of Texas-Pan American is accredited by The Accreditation Council of Occupational Therapy Education (ACOTE). The next scheduled accreditation site visit is 2010/2011. The address for this organization is AOTA Accreditation Department, P.O. Box 31220, Bethesda, MD 20824-1220 or call 301/652-2682.



★ 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 243.



REHABILITATION

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Reed, Bruce, Professor
Reid, Charles 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 master's 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 master's 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 and research in rehabilitation.

The master's degree in rehabilitation counseling at The University of Texas-Pan American 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 MASTER'S 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. Submit all application materials required by the Office of the Registrar for entry into graduate study at



The University of Texas-Pan American. This includes separate official transcripts from each college and/or university attended since leaving high school and a completed application form for graduate admission.

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 "probationary" admission.

Students admitted under probationary 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 master's degree program is early April for fall admission and early November for spring admission. Call the office for specific dates and procedures.

★ PROCEDURES FOR APPLYING TO THE MASTER OF SCIENCE IN REHABILITATION COUNSELING PROGRAM

In addition to the requirements for admission to graduate study, the following must be accomplished for admission to the Master of Science in Rehabilitation Counseling Program:

1. Submit copies of:
 - a) All post-secondary transcripts.
 - b) A completed application form for admission to the Master of Science in Rehabilitation Counseling Program.

2. Submit a double-spaced, two-page, typed essay describing why you want to pursue a master's degree in rehabilitation counseling and become a counselor.

3. Submit two letters of reference, one of which must be from a professor and the second from an employer or practicum supervisor.

4. Participation in a personal interview with the Rehabilitation Counseling Program's Admissions Committee is required.

Send materials to the graduate program coordinator, Department of Rehabilitation Services, College of Health Sciences and Human Services, The University of Texas-Pan American, 1201 W. University Drive, Edinburg, TX 78539-2999.

★ CURRICULUM DEGREE REQUIREMENTS

The Master of Science degree in rehabilitation counseling is a 48-semester hour program. Coursework includes:

Required Courses		42 hours
REHS	6300	Rehabilitation Foundations
REHS	6310	Rehabilitation Case Management
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
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 student's academic advisor.

Total 48 hours

★ REQUIRED PRACTICUM AND INTERNSHIP EXPERIENCE

A minimum 100-hour supervised practicum and 600-hour supervised internship is required of all master's 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. Although the practicum may be taken at a certain point during the student's program, the internship is generally completed in the student's 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

Successful completion of a six-hour comprehensive exam is required of students. The exam, typically taken in the student's final semester, is comprised of two sections covering aspects of all coursework taken in the graduate program. The passing grade for each of the two exam sections is 70 percent or better. Students who score less than 70 percent on either section may, at the discretion of the faculty, be required to take an oral examination with two or more faculty members present, or they may be failed outright without an opportunity to take an oral exam. Those students who fail will be required to take the comprehensive exam during the next administration of the exam. Any student who fails the comprehensive examination on the second attempt may be required to take an oral exam, retake deficient courses, complete an assignment or be dropped from the program.

☆ 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 student's 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 American's 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 (Texas Rehabilitation Commission and Texas Commission for the Blind) as well as private sector vocational rehabilitation (Workers' Compensation) are strongly



encouraged to obtain this credential upon completing their degree requirements. For more information or an application, write to the Commission on Rehabilitation Counselor Certification (CRCC) at 300 N. Martingale Rd., Suite 460, Schaumburg, IL 60173, 847/944-1325.

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 UT Pan American's 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.

★ 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 251.



SOCIAL WORK

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 Feldman, Janis, *Assistant Professor*
 Penzerro, Rose Marie, *Associate 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 and advanced professional social workers 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 program's 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 social work department 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 bi-national 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 course programs through 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 master's 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) degree program is accredited by the Council on Social Work Education. The master's in social work is a 60-hour degree consisting of 30 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, 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 three 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 nine 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 33-hour advanced standing program and the 60-hour program. The 33-hour advanced standing program can be completed in a two-year extended study period. Similarly, the 60-hour program can be finished in three or four years of extended study.

★ CURRICULUM PLAN FOR MSSW DEGREE PROGRAM

Course Number	Credit Hours	Course Title
◆ Semester I		
SOCW 6321	3	Generalist Social Work Practice I
SOCW 6300	3	Human Behavior and the Social Environment I
SOCW 6302	3	Social Welfare Policy
SOCW 6381	3	Social Work Research Designs and Application
SOCW 6311	3	Social Work as a Profession
◆ Semester II		
SOCW 6301	3	Human Behavior and the Social Environment II
SOCW 6322	3	Generalist Social Work Practice II
SOCW 6323	3	Generalist Social Work Practice III
SOCW 6670	6	Field Practicum I
◆ Semester III		
SOCW 6330	3	Advanced Family Practice I
SOCW 6332	3	Social Work Practice with Latinos
SOCW 6395	3	Supervision, Consultation and Administration
SOCW 6380	3	Practice and Program Evaluation
XXX	3	Elective
◆ Semester IV		
SOCW 6331	3	Advanced Family Practice II
SOCW 6335	3	Advanced Clinical Assessment
SOCW 6975	9	Advanced Field Practicum II

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 program 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

The applicant must meet the following requirements in addition to qualifying for admission to the University for graduate study:

1. A bachelor's degree from an accredited college or university;
2. A GPA of 2.75 or better on a 4.0 scale for the last 60 hours of academic coursework.
3. Three letters of recommendation from persons who can evaluate ability and potential for graduate education and professional social work practice.
4. Leadership ability, motivation, personal maturity and English writing proficiency, as demonstrated in a personal narrative statement.
5. Successful completion of an undergraduate course in statistics within the previous five years.

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 if 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 33 hours: three 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 nine 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 3.0 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 254.







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, the Science Building, the Math and General Classroom Building and the 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.

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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 oversees 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 182.



BIOLOGY

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Faulkes, Zen, *Assistant Professor*
Gunn, Scott J., *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., *Assistant Professor*
Summy, Kenneth R., *Assistant Professor*
Terry, Matthew, *Assistant Professor*
Zaidan, Frederic, III, *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 master's 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'S PROGRAM

The following are required for consideration to join the Biology Master's 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. Acceptance from The University of Texas-Pan American Graduate School into the University's graduate program (either clear admission or probationary admission). Admission to the UTPA graduate program does not ensure acceptance to the Biology Master's program, and vice versa.
 2. Undergraduate transcripts (and graduate transcripts, if any.)
 - 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 grade point average (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 Master's program. Successful applicants with a GPA lower than 3.0 on this measure may be given probationary admission.
 3. A Graduate Record Exam (GRE) General Test score



sent directly to The University of Texas-Pan American from the testing agency.

4. 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.

5. Two letters of recommendation sent directly to The University of Texas-Pan American from the referees.

6. *Thesis option:* A graduate faculty member must serve as the chair of the student's graduate committee (i.e., thesis advisor). The prospective thesis advisor 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 advisors.

Non-thesis students also need a graduate committee to complete this program and must find a committee chair (i.e. advisor) within 16 weeks of beginning the program.

7. *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 applicant's expense.

8. *Interview:* Upon invitation, conduct an interview (in person, phone interview, or other means) with members of the Biology Graduate Committee.

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 in writing 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 student's first semester, the student's graduate committee will administer a preliminary oral assessment to determine the student's understanding of general biological principles. This helps to ensure that students have the background knowledge necessary to complete academic coursework required for a master's, 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 student's degree plan. For this reason, it is strongly recommended that a student hold a preliminary oral assessment before submitting a degree plan.

The student's performance on this assessment will help the student's committee in formulating recommendations for the degree plan and for removing deficiencies. If deficiencies or weaknesses in basic biology are apparent, the student's 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 student's 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 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 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 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 master's 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 advisor 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 Graduate Committee.

4. The research will culminate in a thesis written in the style approved by the Graduate Committee and should be worthy of submission, in whole or in part, for publication in a reputable journal. Approval must be affirmed by the chair of the department and the dean of the college.

5. Following acceptance of the thesis, evidenced by the signatures of the committee members and by the administrators indicated above, four copies should be presented for binding, and a fee to cover the cost of binding should be paid to The University of Texas-Pan American. The four bound copies will be distributed as follows: the first (original) and second copy in the library, the third copy with the Department of Biology and the fourth copy with the student.

◆ 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	5312	Advanced Ornithology
BIOL	5314	Advanced Plant Systematics
BIOL	5315	Advanced Entomology
BIOL	5316	Advanced Environmental Toxicology
BIOL	5317	Advanced Bacterial Genetics
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	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	6312	Subtropical Ornithology
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	6420	Plant Biochemistry and Molecular Biology

Approved Minor or Support Area 0-9 hours (Non-Thesis)

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 185. All biology courses require graduate standing before enrollment.



CHEMISTRY

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 Bhat, Narayan, *Professor*
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 Ibrahim, Elamin, *Associate Professor*
 Macossay-Torres, Javier, *Assistant Professor*
 Mondal, Jalal, *Professor*
 Rampersad-Ammons, Joanne,
 Villarreal, John, *Professor*
 Whelan, Thomas, *Associate 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

The applicant must be accepted to the Graduate School of The University of Texas-Pan American. The application packet will include:

- ◆ official undergraduate transcript,
- ◆ three letters of recommendation,
- ◆ graduate record examination scores,
- ◆ recommendations of the Chemistry Graduate Program Advisor (which will be made after a scheduled interview with the applicant),
- ◆ recommendations of the Chemistry Graduate Program Committee, and
- ◆ TOEFL scores for international students (which will be made after a review of the applicant's files).

a) 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.

b) The program committee will have the authority to accept into unconditional status any applicant whose qualifications in (a) above fall short of the requirements.



c) Probationary 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 probationary admission on the strength of the applicant's application portfolio and recommendations.

- ◆ Such probationary 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-probationary or clear status.

The applicant may not proceed beyond 12 credit hours of chemistry graduate courses with a probationary 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 advisor and with the approval of the program coordinator. In that sense there are no true prescribed electives apart from those suggested by the advisors. 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 teacher's 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 advisor. 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 advisor(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	Master's Project I
CHEM	7326	Master's Project II

★ 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 188.



COMPUTER SCIENCE

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Fu, Bin, *Assistant Professor, Bioinformatics, Algorithms*
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Liu, Fang, *Assistant Professor, Wireless Network, Network Security*
Lozano, Andres, *Assistant Professor, Bioinformatics*
Ng, Peter A., *Professor, Document Processing, Process Engineering*
Schweller, Robert, *Assistant Professor, Algorithms*
Tsai, Ping-Sing, *Assistant Professor, Multimedia Computing, Data Compression*

★ 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 and as well as offer in-depth study in the areas of algorithms, bioinformatics, databases, data mining and warehousing, information retrieval, networks, artificial intelligence and cognitive science, computer graphics and virtual reality,



multimedia, information visualization and interactive systems, 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.utpa.edu.

★ ADMISSIONS REQUIREMENTS

1. Applicants must be accepted to the Graduate School.
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, 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	6323	Design and Analysis of Algorithms	
CSCI	6335	Advanced Computer Architecture	
CSCI	6339	Theoretical Foundations of Computation	

CSCI	6174	Open Problems in Computer Science*
CSCI	6175	Seminar in Computer Science (2 hours required)

* 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	6352	Object Oriented System Development
CSCI	6354	Performance Evaluation
CSCI	6356	Parallel Computing
CSCI	6360	Advanced Computer Graphics
CSCI	6361	Computer Visualization
CSCI	6362	Interactive Systems
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 (63 hours for project option, 9 hours for thesis option):

CSCI	6380	Problems in Computer Science (required for both options) <i>and</i>
CSCI	6390	Masters Project I <i>or</i>
CSCI	7300	Thesis (6 hours required)

★ MASTER OF SCIENCE IN INFORMATION TECHNOLOGY

Students complete 36 semester hours, including seven semester hours of required computer science lecture and seminar courses, 14 or more semester

COMPUTER SCIENCE, ENGINEERING

hours of prescribed elective courses, and a master's 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 7 hours

CSCI	6302	Foundations of Software and Programming Systems
CSCI	6303	Principles of Information Technology System
CSCI	6174	Open Problems in Computer Science

To be taken in first year of enrollment in graduate program.

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 in Computer Science
CSCI	6301	Foundation of Algorithms, Data and Programming Languages in Computer Science
CSCI	6314	E-Commerce Systems and Implementation
CSCI	6315	Applied Database Systems
CSCI	6340	Advanced Software Engineering
CSCI	6345	Advanced Computer Networks
CSCI	6361	Computer Visualization
CSCI	6362	Interactive Systems
CSCI	6363	Human Computer Interaction
CSCI	6364	Network Information Systems
ELEE	6340	Digital Communications
ELEE	6372	Parallel and Distributed Systems
MANE	6375	Human Factors Engineering
COMM	6324	Seminar in Organizational Communication
COMM	6331	Mass Communication Theory
MARK	6374	E-Commerce: Doing Business in a Digital World
MIS	6391	Strategic Management Information Systems

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	Master's Project
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★ 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 195.



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Mold Design, Plastics Processing*
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★ 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.

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 advisor. 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 master's 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 master's thesis should be given at least one week in advance to all faculty and students in the department. A draft copy of the master's thesis should be available to all faculty members serving on the student's 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 student's 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



Master's Thesis	6 hours
ELEE 7300	
ELEE 7301	

Elective courses should be selected with the consent of the student's thesis advisor. 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 master's 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 student's 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 student's 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
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Elective Courses in Science and Engineering	6 hours
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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 208.



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 non-thesis options. Students may further specialize within the major through selection of elective courses.

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 will provide technical and engineering management skills, provide education in cutting-edge technology to manufacturing professionals so they can be competitive in the global market, and prepare 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 six 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 coursework for option two and 30 hours coursework for option (3) 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 student's Graduate Faculty Advisory Committee (GFAC).

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 the 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 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). 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 student's Graduate Faculty Advisory Committee will specify each student's leveling work.

★ ADMISSION TO THE MANUFACTURING ENGINEERING PROGRAM

Applicants should meet University requirements for admission to graduate studies given in the admission section of this catalog.

☆ 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 student's 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 student's 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 student's 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 student's 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

◆ **Courses Elected by Students**

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 student's 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	6368	Logistics Engineering
Systems		
MANE	6352	Simulation of Manufacturing Systems
MANE	6340	Operations Research and Analysis
MANE	6331	Advanced Manufacturing Planning and Control
MANE	6321	Robotics and Automation
MANE	6328	Dynamic Systems Modeling
MANE	6380	Engineering Project Management
MANE	6342	Engineering Decision Support Systems

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.

◆ **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 <i>(May be repeated for credit.)</i>
MANE	7300	Thesis <i>(May be repeated for credit until completing thesis work.)</i>

★ **COURSE DESCRIPTIONS**

A listing of graduate course offerings in manufacturing engineering can be found in the Course Descriptions beginning on page 228.



MASTER OF SCIENCE IN ENGINEERING: 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.

The engineering management major is designed to students with 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, fifteen 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, nine to 15 hours of engineering management electives and zero to six 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, six to 15 hours of engineering management electives and zero to nine hours of non-engineering management electives. The coursework only option requires 36 hours of coursework divided into 15 required hours, nine to 21 hours of engineering management electives and zero to 12 hours of non-engineering management electives.

Students shall 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 advisor or the student's Graduate Faculty Advisor Committee (GFAC) will specify each student's leveling work.

★ ADMISSION TO THE ENGINEERING MANAGEMENT PROGRAM

To be considered for clear admission to the program, in addition to meeting the graduate school admission requirements, the applicant must have:

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 Text 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

◆ Leveling Courses

MANA 2340	Fundamentals of Industrial Engineering
MANE 3332	Engineering Statistics (or MATH 4339)
MANE 3337	Engineering Economy

◆ Courses Required of All Students

ACC 6330	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 6347	Facilities Layout
MANE 6349	Advanced Work Science
MANE 6352	Simulation of Manufacturing Systems
MANE 6354	Advanced Engineering Economy
MANE 6357	Ergonomics
MANE 6368	Logistics Engineering
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 committee's approval. Thesis students are limited to six hours of non-engineering management electives and coursework option students are limited to twelve 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 228.



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

Applicants should meet University requirements for admission to graduate studies given in the admission section of this catalog. There are additional requirements specific to the mechanical engineering program. For unconditional admission, these are:

- (1) A bachelor's degree in mechanical engineering or related area with a grade point average of 3.0 or higher on a 4.0 scale for the last 60 semester hours attempted.
- (2) Three letters of recommendation attesting to the applicant's 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 whose bachelor's degree is 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 nine 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 Master's Thesis I
MECE 7301 Master's Thesis II

C. Twenty one hours of additional courses chosen with the consent of the student's advisor. 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.

◆ Report Option (36 hours total)

A. MECE 6310 Intermediate Engineering Analysis (3 hours)

B. Six hours of project report:
MECE 6397 Master's Report I
MECE 6398 Master's Report II

C. Twenty-seven hours of additional courses chosen with the consent of the student's advisor. 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.

◆ Non-Thesis Option (36 hours)

A. MECE 6310 Intermediate Engineering Analysis (3 hours)

B. Thirty-three hours of additional courses chosen with the consent of the student's advisor. 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.

★ 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 236.



★ 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 student's 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 organization's 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 UTPA must complete the graduate application form for admittance to the graduate school and must satisfy the graduate school admission requirements published in the graduate catalog. There are additional requirements specific to the mechanical engineering program. For unconditional admission, these are:

(1) A bachelor's degree in mechanical engineering or related area with a grade point average of 3.0 or higher on a 4.0 scale for the last 60 semester hours attempted.

(2) Three letters of recommendation attesting to the applicant's 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 nine 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 UTPA mechanical engineering department. 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; 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 master's 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 6341, MECE 6342, MECE 6343, MECE 6344, MECE 6352, MECE 6360, MECE 6362, MECE 6399.

◆ Materials.

Choose four, three-unit courses:

• MECE 6310, MECE 6320, 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 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. Hashim Mahdi, *Chair*
 Department of Mechanical Engineering
 Telephone: 956/381-2381
 E-mail: mahdi@utpa.edu



MATHEMATICS

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 Varlamov, Vladimir, *Associate Professor*
 Villalobos, Maria Cristina, *Associate Professor*
 Wang, Xiaohui, *Assistant Professor*
 Watkins, William T., *Professor*
 Yagdjian, Karen, *Associate Professor*
 Yoon, Jasang, *Assistant Professor*

★ MASTER'S 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 master's 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; and
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 Master's 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.

★ 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 232.

★ 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

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	Cryptology and Codes

Free Electives

Select an additional six hours of approved electives.

Thesis

MATH	7300	Thesis I
MATH	7301	Thesis II



PHYSICS AND GEOLOGY

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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 182. 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 five departments: Criminal Justice, Military Science, Political Science, Psychology and Anthropology, and Sociology.

★ ACADEMIC PROGRAMS

The College of Social and Behavioral Sciences offers the Master of Arts degree in psychology, the Master of Science degree in criminal justice and sociology and the Master of Public Administration degree, 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 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; the Bachelor of Science in criminal justice and the Bachelor of Applied Arts and Sciences.

Students may minor in anthropology, criminal justice, 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*

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Fax: 956/381-2180

Web: <http://www.utpa.edu/colleges/cosbs.cfm>

Dr. Kristin Croyle, *Assistant Dean*

Dr. Fred Ernst, *Acting Assistant Dean*

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CRIMINAL JUSTICE

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Graduate Faculty

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Dearth, Daniel K., *Associate Professor*
Ethridge, Philip, *Associate Professor*
Resendez, Rosalva, *Associate Professor*
Vincentnathan, 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 selective law enforcement agencies.
- Prepare students for academic study beyond the master's 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. Be accepted for admission to graduate study at the University.
 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 department's 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 for credit if 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
		<i>or</i>
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 194.



PUBLIC ADMINISTRATION

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Graduate Faculty
 Hinojosa, Jose R., *Adjunct Faculty*
 Lynch, Cynthia, *Assistant Professor*
 Milford, John, *Lecturer*
 Montesdeoca, Richard, *Lecturer*

★ 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 qualify for admission to the University for graduate study to be admitted to the program (see page 16 of this catalog).

☆ DEGREE REQUIREMENTS

The Master of Public Administration (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 Non-Profit 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 248.



PSYCHOLOGY AND ANTHROPOLOGY

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Graduate Faculty

Psychology

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*

Anthropology

Glazer, Mark, *Professor*
Hinojosa, Servando, *Assistant Professor*
Pozorski, Shelia, *Professor*
Pozorski, Thomas, *Professor*



PSYCHOLOGY

★ OVERVIEW

The Graduate Program in psychology offers three options for students:

- (1) Clinical psychology, thesis option
- (2) Clinical psychology, non-thesis option.
- (3) Experimental psychology, thesis required.

Students with a master's degree in clinical psychology will be eligible to apply for licensure as a psychological associate in the state of Texas. Clinical psychology graduates may also complete all academic requirements for licensure as a Licensed Professional Counselor. Both experimental and clinical psychology graduates are encouraged to transfer and continue their education in a doctoral psychology program.

★ ADMISSION REQUIREMENTS

Applicants must:

1. Be accepted to The University of Texas-Pan American for graduate study.
 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.
 4. Provide GRE scores – GRE-VERBAL: prefer 400 or higher; GRE-Quantitative: prefer 400 or higher.
 5. Have submitted three letters of recommendation from individuals who are qualified to judge the student's 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.

★ CONDITIONAL ADMISSION

Individuals who show potential for successful completion of graduate work but do not meet published admission criteria may be conditionally admitted to the



program. Each student admitted conditionally will have an individualized deficiency removal plan, along with a designated time period within which deficiencies must be removed. If specified deficiencies are removed, the conditional admission status is removed and the student is transferred to clear admission status. If the conditional admission status is not removed within the designated time period, the student will be dropped from the program.

★ 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	Professional & Ethical Issues
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
PSY	6366	Clinical Practicum II
PSY	6368	Internship
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	Professional & Ethical Issues
EPSY	6350	Introduction to Statistics

B. Clinical Applications 9 hours

PSY	6352	Personality Assessment
PSY	6354	Individual Psychotherapy
PSY	6356	Group Psychotherapy

C. Designated Electives 6 hours

Select two of the following courses:

PSY	6315	Advanced Behavioral Management
PSY	6330	Developmental Psychology
PSY	6348	Biofeedback and Self Regulation
EPSY	6366	Lifestyle & Career Development
EPSY	6393	Marriage & Family Counseling

D. Supervised Clinical Practice Courses 9 hours

PSY	6364	Clinical Practicum I
PSY	6366	Clinical Practicum II
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	Physiological Psychology
PSY	6325	Theoretical Issues in Learning
PSY	6332	Research Design
PSY	6336	Advanced Psychological Measurement
EPSY	6350	Introduction to Statistics

B. Electives 12 hours

To be selected in conjunction with the graduate advisor.

C. Thesis Requirement 6 hours

PSY	7370	Thesis I
PSY	7372	Thesis II

Total Hours Required for the Option 36 hours

Both Clinical and Experimental options require the completion of a comprehensive examination as part of the graduation requirements.

Comprehensive Examination

Individuals are required to satisfactorily complete a written comprehensive examination as a part of the degree 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 246.



ANTHROPOLOGY

Web Site:

<http://www.utpa.edu/dept/psych-anth/anthindex.html>

★ 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 182.



SOCIOLOGY

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Himmel, Kelly F., *Associate Professor*
Liebowitz, Stephen W., *Associate Professor*
Raajpoot, Uzzer A., *Associate Professor*
Richardson, D. Chad, *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. Have had at least 15 undergraduate hours in sociology or demonstrated competence from equivalent coursework in similar liberal arts discipline.
2. Submit a letter of intent and a completed application.
3. Have submitted two letters of recommendation from individuals who are qualified to judge the student's academic and professional development.
4. Be admitted as a graduate student by the graduate office of the University.

Note: Students not meeting these requirements be admitted on a provisional basis and will need to meet any provisions indicated by the graduate advisor.

★ 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

Sociology	6300	Graduate Statistics
Sociology	6301	Graduate Social Theory
Sociology	6302	Graduate Quantitative Methods
Sociology	6303	Graduate Qualitative Methods
Sociology	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 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	Department, College or Program	Page
ACC	Accounting	Accounting and Business Law	182
ACCT	Accounting	Accounting and Business Law	182
ANTH	Anthropology	Psychology and Anthropology	182
ART	Art	Art	183
BADM	Business Administration	Doctoral Program in Business Administration	184
BIOL	Biology	Biology	185
BLAW	Business Law	Accounting and Business Law	188
CHEM	Chemistry	Chemistry	188
COMD	Communication Disorders	Communication Sciences and Disorders	190
COMM	Communication	Communication	192
CRIJ	Criminal Justice	Criminal Justice	194
CSCI	Computer Science	Computer Science	195
ECON	Economics	Economics, Finance and General Business	199
ED	Education	Educational Psychology	200
EDBE	Education	Bilingual Education	200
EDCI	Education: Curriculum and Instruction	Curriculum and Instruction	201
EDEC	Education: Early Childhood	Curriculum and Instruction	203
EDTC	Educational Technology	College of Education	203
EDUL	Educational Leadership	Educational Leadership	204
ELEE	Electrical Engineering	Engineering	208
EMAT	Mathematics	Mathematics	210
ENG	English	English	210
EPSY	Educational Psychology	Educational Psychology	213
FINA	Finance	Economics, Finance and General Business	220
FREN	French	Modern Languages and Literature	221
GEOL	Geology	Physics and Geology	221
HIST	History	History and Philosophy	222
INTB	International Business	Management, Marketing and International Business	223
ISQM	Information Systems & Quantitative Methods	Computer Information Systems and Quantitative Methods	224
KIN	Kinesiology	Health and Kinesiology	225
MACC	Master of Accountancy	Accountancy	226
MANA	Management	Management, Marketing and International Business	227
MANE	Mfg. Engineering, Management	Engineering	228
MARK	Marketing	Management, Marketing and International Business	230
MATH	Mathematics	Mathematics	232
MECE	Mechanical Engineering	Engineering	236
MIS	Management Information Systems	Computer Information Systems and Quantitative Methods	238
MUS	Music	Music	239
NURS	Nursing	Nursing	241
OCCT	Occupational Therapy	Health Sciences and Human Services	243
PHIL	Philosophy	History and Philosophy	245
PHYS	Physics	Physics	245
POLS	Political Science	Political Science	246
PSY	Psychology	Psychology and Anthropology	246
PUBA	Public Administration	Public Administration	248
QUMT	Quantitative Methods	Computer Information Systems and Quantitative Methods	250
READ	Reading	Reading	250
REHS	Rehabilitation Counseling	Rehabilitative Services	251
SCIE	Interdisciplinary Science	College of Science and Engineering	252
SOCI	Sociology	Sociology	252
SOCW	Social Work	Social Work	254
SPAN	Spanish	Modern Languages and Literature	258



ACCOUNTING

ACC 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.

ACC 6320 Financial and Managerial Accounting [3-0]
fall

This course is analytical with detailed coverage of both financial and managerial accounting topics. *Prerequisite:* ACC 6301 or ACC 2301 and ACC 2302.

ACCT 6321 International Taxation [3-0]
as scheduled

Seminar on incentives and restrictions contained in the United States tax laws and related to international law.

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 — including traditions, customs, folkways and religious beliefs — 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 [3-0]
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 6354 Advanced Cultural Anthropology [3-0]
as scheduled

Stresses the holistic approach of anthropology as a means for understanding societies and explaining their development while also presenting and applying the methodologies of its subdisciplines. May be repeated for six hours credit.

ANTH 6355 Psychology and Mythology [3-0]
fall, spring, and as scheduled

This course will study the impact and interrelationships

ACCOUNTING, ANTHROPOLOGY, ART

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.



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 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

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. \$20 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. *Credit Restriction:* Credit cannot be given if BIOL 3402 or BIOL 4407 has been taken. *Prerequisite:* Graduate standing. \$20 laboratory fee.

BIOL 5312 Advanced Ornithology [3-3]
as scheduled

Studies in avian biology with emphasis on taxonomy, behavior and ecology. *Prerequisite:* Graduate standing. \$20 laboratory fee.

BIOL 5314 Advanced 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. *Prerequisite:* Graduate standing. \$20 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. \$20 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. \$20 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. *Credit restriction:* Not open to students with previous credit for BIOL 4417. *Prerequisites:* Graduate standing. \$20 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. *Prerequisite:* Graduate standing. \$20 laboratory fee.

BIOL 5346 Advanced Aquatic Entomology [3-3]
as scheduled

This course covers aquatic insect identification, taxonomy, ecology and the use of aquatic insects in the bioassessment of water quality. The fauna of Lower Rio Grande freshwater environment will be emphasized. The course includes lecture, lab and field work. *Prerequisite:* Graduate standing. \$20 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. \$20 laboratory fee.
- BIOL 5405 Advanced Plant Physiology [3-3]
as scheduled
Physiology of plants, cell structure and function, nutrition, metabolism and factors influencing growth and development. *Prerequisite:* Graduate standing. \$20 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 1401 and 1402; 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. *Prerequisite:* Graduate standing. \$20 laboratory fee.
- BIOL 5409 Advanced Herpetology [2-3]
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, and graduate standing. \$20 laboratory fee.
- BIOL 5409 Advanced Herpetology [3-3]
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:* BIOL 2401 or BIOL 2402 or equivalent and graduate standing.
- 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. *Prerequisite:* Graduate standing. \$20 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. *Prerequisite:* Graduate standing.
- 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:* BIOL 1401 and 1402, CHEM 1301 and 1101 or PHYS 1401. \$20 laboratory fee.
- BIOL 5420 Biotechnology [3-3]
as scheduled
This course will utilize the computational methods, online databases and Internet resources present in the biological sciences and apply them to answer questions in biology ranging from organism development to human disease. The laboratory portion of the class will be computer and Internet-based. Students will explore online database resources to answer specific questions in a wide variety of areas relating to cellular and molecular biology.
- 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. *Prerequisite:* Graduate standing. Credit will not be granted for BIOL 4424 and BIOL 5424.
- 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. *Credit Restriction:* Not open to students with previous credit for BIOL 4402. *Prerequisite:*

BIOLOGY

Graduate standing. BIOL 3414 recommended. \$20 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. *Prerequisite:* Graduate standing.

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. *Prerequisite:* Graduate standing. \$20 laboratory fee.

BIOL 6304 Systematic Biology [3-0]
as scheduled

Theory and methods of taxonomy, classification, phylogeny and biogeography as applied to animals. *Prerequisite:* Graduate standing.

BIOL 6305 Biometry [3-3]
as scheduled

Statistical analysis and principles as applied to biological problems. *Recommended Prerequisite:* Undergraduate statistics course. \$20 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:* Graduate standing and 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 6312 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. \$20 laboratory fee. *Prerequisites:* BIOL 4412, BIOL 5312 or permission 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. \$20 laboratory fee.

BIOL 6316 Molecular Genetics [3-0]
as scheduled

Lectures dealing with the modern concepts of genetics with emphasis on molecular-level investigations of DNA, gene structure, transcription, translation and regulation as elucidated through gene cloning, recombinant DNA technology and biochemical genetics. *Recommended Prerequisites:* BIOL 3413 and organic chemistry or biochemistry. *Prerequisite:* BIOL 5317. \$20 laboratory fee.

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. *Prerequisite:* Graduate standing.

BIOL 6321 Applied Microbiology [3-2]
as scheduled

This course is primarily associated with the commercial exploitation of micro-organisms and involves processes



and products that are of major economic, environmental and medical importance to humankind. Aspects of industrial microbiology such as production of valuable microbial products via fermentation processes will be emphasized. Key aspects of microbial physiology to elucidate the versatility of micro-organisms for their diverse metabolic activities and products will be included in the course. *Prerequisite:* BIOL 3401. \$4 laboratory fee.

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. *Prerequisite:* Graduate standing in biology.

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. \$4 laboratory fee.

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. *Prerequisite:* Graduate standing.

BIOL 7300 Thesis
\$20 laboratory fee.

BIOL 7301 Thesis
\$20 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.



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 6105 Graduate Clinical Practicum:
 Speech-Language Pathology
fall, spring, summer I & II

Supervised clinical practice with one or more clients in the Speech and Hearing Center. Client assignments are determined after an evaluation of the student's academic and clinical preparation. Full-time graduate students are required to enroll in practicum fall, spring and summer I and II for a total of four registrations. Students should be available a minimum of 16 hours each week during operating hours of the Speech and Hearing

Center so that they may receive practicum assignments. *Prerequisites:* Graduate standing and admission to the COMD graduate program.

COMD 6180 Graduate Practicum: Audiology
fall, spring, summer

Supervised clinical practice in audiology. *Prerequisites:* COMD 6350, graduate standing, and admission to the COMD graduate program.

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 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

COMMUNICATION DISORDERS

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]

fall, spring, and summer

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

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)
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 6300 Communication Research (COMM) (TH) [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 rhetorical and 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 6325 Seminar in Group Communication (COMM) [3-0]

as scheduled
 Study of theory and research in the dynamics of small group communication processes with emphasis on the interaction of message variables with other variables such as leadership affiliation, cohesiveness, power and climate.

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 6327 Seminar in Contemporary Rhetorical Theory and Criticism (COMM) [3-0]

as scheduled
 May be repeated for credit when topics vary. Topics include rhetorical dimensions of media, issues in freedom of speech and methodologies of rhetorical criticism. *Prerequisite:* Graduate standing.

COMM 6328 Applied Research 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 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 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 for credit if 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 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 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 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]
as scheduled

An introduction to basic economic concepts and methods. The competitive market system, problems in resource allocation and economic efficiency, government regulation and the public sector, money and banking, unemployment and inflation in economic policy making and internal economics. *Prerequisite:* Admission to the MBA Program.

ECON 6350 Managerial Economics [3-0]
spring

The application of economic analysis to management in the business firm. Considers demand analysis, production costs, pricing policies and investment planning. Extensive use is made of case problem analysis. *Prerequisites:* ECON 6301 or ECON 2301 and ECON 2302.

ECON 6351 Economics Seminar [3-0]
as scheduled

This course is a survey of selected topics in economics. It may be repeated for credit.

ECON 6352 Economics Policy-Making Seminar [3-0]
as scheduled

This course aims to identify policy-related issues that can be addressed using modern microeconomic and macroeconomic theories. This course may be repeated for credit.

ECON 6353 Latin American Economic Development [3-0]
as scheduled

Economic development principles as applied for the Latin American experience; growth and development strategies including trade, borrowing, aid, education, infrastructure development and entrepreneurial activity. *Prerequisites:* ECON 6301 or ECON 2301 and ECON 2302.

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. Crosslisted 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 children's first and second language as it relates to the dual language learning environment. Research on the similarities and differences between the first and second language acquisition process, theory and practice will be analyzed and applied to the bilingual learning environment. Analyses will focus on effective development of social and academic linguistic proficiency of children 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.

EDCI 6326 Science in the Elementary School Curriculum [3-0]
as scheduled

Deals with the purposes, selections and organization of content, teaching and learning procedures and evaluation of outcomes in elementary school science. *Prerequisites:* A course in physical science and a course in life science. May be taken more than once for course credit if topics vary.

EDCI 6328 Mathematics in the Elementary School Curriculum [3-0]
as scheduled

Study is made of recent research in the teaching of mathematics. Application of research findings to the teaching of mathematics is emphasized. May be taken more than once for course credit if topics vary.



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 [3-0]

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-kinder and kindergarten programs. Existing educational research projects now being conducted will be surveyed.

EDEC 6392 Internship in Early Childhood Setting II [3-0]

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.



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 literature review 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:* EDCL 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:* EDCL 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.



EDUCATIONAL LEADERSHIP

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 6333 Elementary and Secondary Curriculum [3-0]
fall, spring, summer
A study of early childhood, elementary, middle and secondary curriculum with special emphasis on trends, issues and state/federal mandates.

EDUL 6334 Curriculum Development-Problems and Processes [3-0]
fall, spring, summer
The examination of systematic approaches to developing and evaluating elementary and secondary school curricula at the national, state, local school district and campus levels. Methods of developing and applying criteria for curriculum analysis of each of the major curriculum areas to be studied. *Prerequisites:* ED 6330 and ED 6331 or equivalents.

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 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 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

EDUCATIONAL LEADERSHIP

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 — surveys, nonequivalent control groups and time-series.

EDUL 8321 Data Analysis [3-0]

as scheduled

Computer methods for descriptive and exploratory analysis of data from surveys and management of field research.

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

This course is a study of conceptual models for student affairs in community colleges and four-year institutions. Also included will be the development of administrative skills.

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 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.




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 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 Neural 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.

<p>ELEE 6331 Nonlinear Systems [3-0] <i>as scheduled</i> 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. <i>Prerequisites:</i> ELEE 4321 and ELEE 6330.</p>	<p>ELEE 6346 Digital Signal Processing II [3-0] <i>as scheduled</i> DSP real-time applications, DSP chip architecture. Advanced topics in digital signal processing. <i>Prerequisite:</i> ELEE 6345.</p>
<p>ELEE 6332 Optimization [3-0] <i>as scheduled</i> 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. <i>Prerequisite:</i> MATH 3349 or equivalent or consent of the instructor.</p>	<p>ELEE 6347 Image Processing [3-0] <i>as scheduled</i> This course covers topics in image processing. The course covers vision strategies, perception, color image processing, image segmentation, morphology and texture analysis. <i>Prerequisite:</i> Graduate standing.</p>
<p>ELEE 6335 Advanced Computer Architecture [3-0] <i>as scheduled</i> 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. <i>Prerequisite:</i> CSCI 6300 or CSCI 4335, or ELEE 3435.</p>	<p>ELEE 6360 High Speed Networks [3-0] <i>as scheduled</i> Introduction to networking concepts, latest networking architecture and protocols for high-speed communications. Local Area Networks (LANs), Wide Area Networks (WANs), IP/ATM, SONET. <i>Prerequisite:</i> Consent of the instructor.</p>
<p>ELEE 6336 Fiber Optical Communication Systems [3-0] <i>as scheduled</i> 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. <i>Prerequisite:</i> ELEE 4351 or equivalent.</p>	<p>ELEE 6361 Broadband Communications [3-0] <i>as scheduled</i> 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. <i>Prerequisite:</i> Consent of the instructor.</p>
<p>ELEE 6345 Digital Signal Processing I [3-0] <i>as scheduled</i> 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. <i>Prerequisite:</i> ELEE 4360.</p>	<p>ELEE 6362 Internet Protocols [3-0] <i>as scheduled</i> 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.</p>
	<p>ELEE 6372 Parallel and Distributed Systems [3-0] <i>as scheduled</i> 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. <i>Prerequisites:</i> ELEE 6335.</p>
	<p>ELEE 6374 Advanced Digital System Design [3-0] <i>as scheduled</i></p>



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 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 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 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 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 — 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 — 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 8388 Form and Theory — 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 — 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 of Childhood [3-0]
The content of this course will include affective and behavioral disorders of childhood and adolescence within the framework of the child's cultural and linguistic background. Identification and current classification systems of emotional disturbance and autism and their implication for the family, community, vocational adjustment and education will be covered.

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 Literacy for Elementary Students with Mild Disabilities

The content of this course will include teaching strategies for reading and written language for elementary students with disabilities. The course will emphasize in formal literacy assessment, word identification, word recognition, vocabulary development, written composition and writing mechanics.

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 and 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 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 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 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 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 [3-0]
The content of this course will include cognitive, behavioral and psychodynamic approaches to psychotherapy with children. A critical review of supportive data or lack of supportive data for various approaches to psychotherapy will be required. Practicum experience is required. This course may be repeated once for credit. *Prerequisites:* PSY 6310 and PSY 6330 or consent of instructor.

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 6340 Financial Administration [3-0]
spring
Management of the flow of funds in the firm. Analysis for obtaining the optimum utilization of funds, behavior of financial institutions and markets. *Prerequisite:* Admission to the MBA Program.

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.



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.



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 once 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 once 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 once 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 once 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 once 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 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 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 8330 Seminar in Management of International Business [3-0]
as scheduled

Topics include the environment of international business and how it affects the management of multinational enterprises. Planning, organizing, staffing and control in a global setting is discussed. Current issues are emphasized. Decision-making and leadership of the international manager and managing global interdependencies are also covered.

INTB 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 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 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
 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
 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
 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.

MANA 8361 Supervised Teaching
in Business Administration
as scheduled

Planning, organizing and presenting teaching processes and practices in business administration. Includes teaching in the College of Business Administration under the direction of the course instructor or supervisor; weekly group meetings with the instructor, individual consultations and reports throughout the teaching period. *Prerequisites:* Graduate standing, approval of the department chair and the dean and appointment as a teaching assistant.



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 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 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]
fall 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 6345 Engineering Management [3-0]
spring

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 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]
all

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 project, 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 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 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 6372 Marketing Strategy [3-0]
as scheduled
A study of current promotion management techniques for consumer products. Skills will be developed in utilizing consumer research, sales analysis and mass media data for promotion planning, creation, execution and evaluation.
- 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 Philosophy [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 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.
- 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.



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, L₂ 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 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 — 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 — 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 — 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 — 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 — 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 — 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 — 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 — 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 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:* MECE 2440 and MECE 3321 or equivalents.

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:* MECE 2440 and MECE 3321 or equivalents.

MECE 6323 Polymer Processing [3-0]
spring
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:* MECE 2440 and MECE 3321 or equivalents.

MECE 6324 Viscoelasticity Theory [3-0]
fall
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:* MECE 2440, MECE 3321 and MECE 3350 or equivalents.

MECE 6325 Composite Structures Engineering [3-0]
spring
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]
fall
Introductory course designed to provide a polymer materials science background to engineering students



that will enable them to design polymer components.
Prerequisites: MECE 2440 and MECE 3321 or equivalents.

MECE 6327 Intermediate Nanotechnology [3-0]
fall

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:* MECE 2440 and MECE 3321 or equivalents.

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:* MECE 2440 and MECE 3321 or equivalents.

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 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. Paytner, 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:* MECE 3304 or equivalent.

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 3304 or MECE 6340 or equivalent.

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 3304 or MECE 6341 or equivalent.

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 3304 or MECE 6341 or equivalent.



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:* MECE 3315 and MECE 3350 or equivalents.

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:* MECE 3315 and MECE 3350 or equivalents.

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]
as scheduled

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.



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]
spring

This course provides the student the opportunity to use computer applications in nursing. *Prerequisites:* Graduate student status and consent of the instructor.

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]
summer

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 androgogy are included. *Prerequisite:* NURS 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:* 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 and spring

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 and consent of the instructor.

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 and consent of the instructor.

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.

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:* NURS 6310 Advanced Practice: Health Promotion.

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 6321, NURS 6301 and NURS 6304.

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.

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.

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.

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 6614 Advanced Practice: Pediatric Nurse Practitioner I [2-12]

This course provides the foundation for assessment and intervention with well children and their families. Common health problems experienced from birth through adolescence are investigated. Concepts of growth and development and family theory are integrated. Developmental screening and anticipatory guidance are emphasized. *Prerequisites:* NURS 6311 and NURS 6247.

NURS 6615 Advanced Practice: Pediatric Nursing Practitioner II [2-15]

This course focuses on clinical management of common acute and stable chronic illnesses experienced by children and adolescents. It includes both physical and behavioral problems. Theories related to chronic illness and coping are applied to the management of chronic illness. *Prerequisite:* NURS 6614.

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 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 [3-0]
in Health Care
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 [3-0]
Occupational Therapy
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 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 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 [3-0]
Therapy Services
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 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 7303 Advanced Applied Research [3-0]
Completion of scholarly project. *Prerequisites:* OCCT 6303, OCCT 6305 and OCCT 6311.

OCCT 7304 Occupational Therapy [3-0]
Skills II
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 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.



PHILOSOPHY

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.



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 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.

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.



POLITICAL SCIENCE

POLS 5367 American Judicial Process [3-0]
as scheduled

Advanced study of the structure, functions and procedures of the national, state and local judicial systems, the interrelationship between the American judiciary and other components of the political system; the impact of judicial decision-making on public policy.

POLS 5386 Politics of South America [3-0]
as scheduled

A survey of governmental structures and politics in South America. Examines the political processes and their relationship to existing social and economic structures of South America.



PSYCHOLOGY

PSY 6305 Advanced Studies in Psychopathology [3-0]
spring

A study of the classification, etiology and treatment of abnormal behaviors. Supporting outside readings will be emphasized. *Prerequisites:* Graduate standing and six hours of psychology and/or consent of instructor.

PSY 6311 Advanced Studies in Personality Theory [3-0]
fall

A study of the development, structure and assessment of personality, with consideration of the major theoretical attempts to account for the psychological nature and behavior of man. Supporting outside readings will be emphasized. *Prerequisites:* Graduate standing and six hours of psychology and/or consent of instructor.

PSY 6315 Advanced Behavior Management [3-0]
as scheduled

Principles and techniques of modifying behaviors across therapeutic and natural settings. Following a review of social learning theory and techniques, practical aspects of behavior management skills and cognitive behavioral procedures will be emphasized. *Prerequisite:* PSY 6325.

PSY 6320 Current Perspectives in Physiological Psychology [3-0]
fall

In-depth study of the relationship between biological events and behavior. Emphasis is placed on the physiological substrates of learning, memory, emotion and motivation. *Prerequisites:* Graduate standing and six hours of psychology and/or consent of instructor.

PSY 6325 Theoretical Issues in Learning [3-0]
fall

A survey of theoretical perspectives in learning and memory. Historical as well as contemporary issues will be emphasized. *Prerequisites:* Graduate standing and six hours of psychology and/or consent of instructor.

PSY 6330 Developmental Psychology [3-0]
as scheduled

The study of growth and development processes throughout the life cycle. Physical, social and psychological factors involved in life change are addressed. An overview, as well as selected current special topics within lifespan human development are addressed. *Prerequisites:* Graduate standing and six hours of psychology and/or consent of instructor.

PSY 6332 Research Design [3-0]
spring

Experimental research, methods and design in psychology.

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 6352 Personality Assessment [3-0]
spring

Development of personality testing. Study and administration of objective and projective personality assessment techniques. *Prerequisites:* PSY 6336, PSY 6311, PSY 6305 and admission to a graduate program with a major in Psychology.

PSY 6354 Individual Psychotherapy [3-0]
fall

Instruction and practice in techniques of individual psychotherapy. Case presentation and report writing. *Prerequisites:* PSY 6305 and PSY 6311.

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]

summer

Current ethical issues in the practice of psychology and related legal principles.

PSY 6364 Clinical Practicum I

as scheduled

Application of psychological tests and psychotherapeutic procedures. *Prerequisites:* Completion of core curriculum and designated electives for Clinical Psychology.

PSY 6366 Clinical Practicum II

as scheduled

Application for psychological tests and psychotherapeutic procedures. *Prerequisite:* Completion or concurrent enrollment in PSY 6364.

PSY 6368 Internship

as scheduled

Application of psychological tests and psychotherapeutic procedures in a clinical setting. *Prerequisites:* PSY 6364 and PSY 6366.

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 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 food inadequate 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 places major emphasis on the nature of the reading process and the essential components of a systematic, sequential program for developmental reading instruction. Various approaches for teaching reading will be scrutinized and analyzed.

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 Child and Adolescent Literature [3-0]
as scheduled

This course is designed to help the trainee gain competence in selecting and recommending literature for children and adolescents and providing leadership

and guidance to help students develop maturity in reading. Trainees will be provided with experiences that will enable them to locate and select appropriate literature for students and to apply appropriate strategies for stimulating voluntary participation and continuous growth in independent reading.

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 Integrated 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 Problems in the Teaching of Reading [3-0]
as scheduled

This course is concerned with analyzing and prescribing materials and techniques for reading instruction to meet common reading problems, integrating reading instruction with other facets of communication, relating reading instruction to sociocultural and linguistic characteristics of the learner. Recreational reading, grouping, content area reading and other problems are among those considered. *Prerequisite:* ED 6308.

READ 6325 Practicum in Reading Instruction
as scheduled

Supervised experience in working with individual children who have reading difficulties. *Prerequisite:* ED 6329.

READ 6329 Diagnostic Teaching of Reading [3-0]
as scheduled

This course is designed to help the student gain competency in diagnosing reading behavior and in prescribing appropriate reading instruction. The student has the opportunity to develop or select, administer and interpret appropriate diagnostic materials and techniques. He/she also will be able to make appropriate recommendations for reading instruction on the basis of such diagnosis. *Prerequisite:* ED 6323.



REHABILITATION COUNSELING

REHS 6300 Introduction to Rehabilitation Foundations [3-0]
as scheduled

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]

spring
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]
fall

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]
fall

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]
spring

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]
spring

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]
fall

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]
fall

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]
fall

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]
as scheduled

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]
as scheduled

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 7600 Internship in Rehabilitation [6-0]
as scheduled
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.



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 6343 The Sociology of Work [3-0]
as scheduled
 This graduate seminar focuses on the nature and importance of work to the individual, family, community and larger society. The ways in which work have been historically defined are examined within the context of pre-capitalist, and post-capitalist economies. Finally,



emphasis is placed upon how social and political policies broadly limit or expand definitions of work, including factors influenced by gender, race and class. *Prerequisite:* Consent of instructor.

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 6361 Race and Ethnic Relations [3-0]
as scheduled

Analysis of minority groups, including power relations. An analysis of patterns of majority-minority relations in the United States and around the world and relevant theoretical explanations.

SOCI 6362 Mexican-American Society [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.



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 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 6675 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 I [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 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 6382 Directed Research and Studies [3-0]
as scheduled

Individualized course of study under the supervision of faculty. *Prerequisites:* Written plan of study and approval of advisor and department chair.

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 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.

SPANISH

<p>SPAN 6341 Special Studies in Spanish Literature [3-0] <i>as scheduled</i> Special topics from the field of Spanish literature. This course may be taken three times as the topic varies. <i>Prerequisite:</i> Graduate standing.</p>	<p>SPAN 6351 Spanish Peninsular Poetry and Drama for AP Teachers [3-0] <i>fall, spring</i> 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.</p>
<p>SPAN 6344 Problems and Issues Related to Language [3-0] <i>as scheduled</i> 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. <i>Prerequisite:</i> Graduate standing.</p>	<p>SPAN 6352 Latin American Prose for AP Teachers [3-0] <i>fall, spring</i> 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.</p>
<p>SPAN 6345 Latino Literature in the U.S. [3-0] <i>as scheduled</i> 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.</p>	<p>SPAN 6353 Latin American Poetry and Drama for AP Teachers [3-0] <i>fall, spring</i> 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.</p>
<p>SPAN 6346 Special Studies in Spanish Civilization [3-0] <i>as scheduled</i> 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. <i>Prerequisite:</i> Graduate standing.</p>	<p>SPAN 6354 Spanish Peninsular Prose for AP Teachers [3-0] <i>fall, spring</i> 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.</p>
<p>SPAN 6347 Special Studies in Grammar and Composition [3-0] <i>as scheduled</i> 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. <i>Prerequisite:</i> Graduate standing.</p>	<p>SPAN 7100 Directed Research in Languages, Literatures and Cultures [1-0] <i>fall</i> 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.</p>
<p>SPAN 6350 Special Topics in Spanish Linguistics [3-0] <i>as scheduled</i> Special topics oriented to the field of Spanish linguistics (Applied Linguistics, Sociolinguistics, Psycholinguistics). Can be repeated up to three times as topics vary.</p>	<p>SPAN 7300 Thesis</p> <p>SPAN 7301 Thesis</p>



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

◆ Attempted Hours

Attempted hours are the total number of hours for courses which a student has attempted, including failing grades such as "F," "DF" and "WF."

◆ 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.

◆ 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.)

◆ 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.

◆ 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 full-time.

◆ Half-time Graduate

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

◆ 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 normal load for a full-time graduate student is nine hours in a regular semester. A graduate master's student may be permitted to enroll for 15 hours with the approval of his or her graduate advisor and the dean of the college. Normal load for a master's degree student during a summer session is four hours, with up to nine

GLOSSARY OF TERMS

permitted with the approval of the graduate advisor and the dean of the college. A doctoral student must have advance approval from the vice president for academic affairs or his or her designee to register for more than 12 hours. There is no limit imposed on the maximum number of hours an undergraduate student may take in a semester or summer session.

◆ **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.

◆ **Regular Semester**

A regular semester is any 15-week fall or spring semester.

◆ **Residence, Coursework**

Coursework in residence refers to coursework actually completed on the UT Pan American campus.

Extension, credit by examination, correspondence and transfer credit may not be used to complete the residency requirement for graduation.

◆ **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 five and one-half week summer sessions.

◆ **TOEFL**

The TOEFL (Test of English as a Foreign Language) is the major English language proficiency test for non-native speakers of English. The TOEFL is administered at UT Pan American.







FACULTY LISTING

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.

Ahluwalia, Punit, *Assistant Professor*, Department of Computer Information Systems and Quantitative Methods.

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.

Alianak, Sonia, *Assistant 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, Victor, *Professor*, Department of Educational Psychology; Educational Leadership, Guidance and Counseling; Ed.D., Western Michigan University, 1976.

Alvarez Martinez, Stephanie, *Lecturer*, 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.

Anderson-Mejias, Pamela, *Associate Professor*, Department of English; Applied Linguistics, Second Language Acquisition; Ph.D., Indiana University, 1980.

Anshen, David W., *Assistant Professor*, Department of English; Ph.D., State University of New York at Stony Brook, 2004.

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FACULTY LISTING

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FACULTY LISTING



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Monforte, Jessica Lavariega, *Assistant Professor*, Department of Political Science.

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FACULTY LISTING



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Overton, Terry, *Professor*, Department of Educational Psychology; Special Education; Ed.D., Texas Woman's University, 1985.

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Pearson, Thomas, *Associate Professor*, Department of History and Philosophy, Ph.D., Southern Illinois University-Carbondale, 1994.

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Pereya, Nicolás, *Lecturer*, Department of Physics and Geology.

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Perez, Maria Alma, *Assistant Professor*, Department of Curriculum and Instruction; Ph.D., Texas A&M University Kingsville, 1998.

Persans, Michael, *Assistant Professor*, Department of Biology; Plant Biology; Ph.D., University of Illinois, 1998.

Phillips, Richard, *Assistant Professor*, Department of Art; Art History; Ph.D., The University of Texas at Austin, 1993.

Pittman, Sharon, *Professor*, Department of Social Work.

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Poletaeva, Elena, *Assistant Professor*, Department of Mathematics.

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Qiao, Zhijun, *Assistant Professor*, Department of Mathematics; Ph.D., Fudan University-People's Republic of China, 1997.

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FACULTY LISTING

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Thompson, Shawn C., *Assistant Professor*, Department of English.

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Vasquez-Parraga, Arturo, *Professor*, Department of Management, Marketing and International Business; Marketing; Ph.D., Texas Tech University, 1990.

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FACULTY LISTING

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